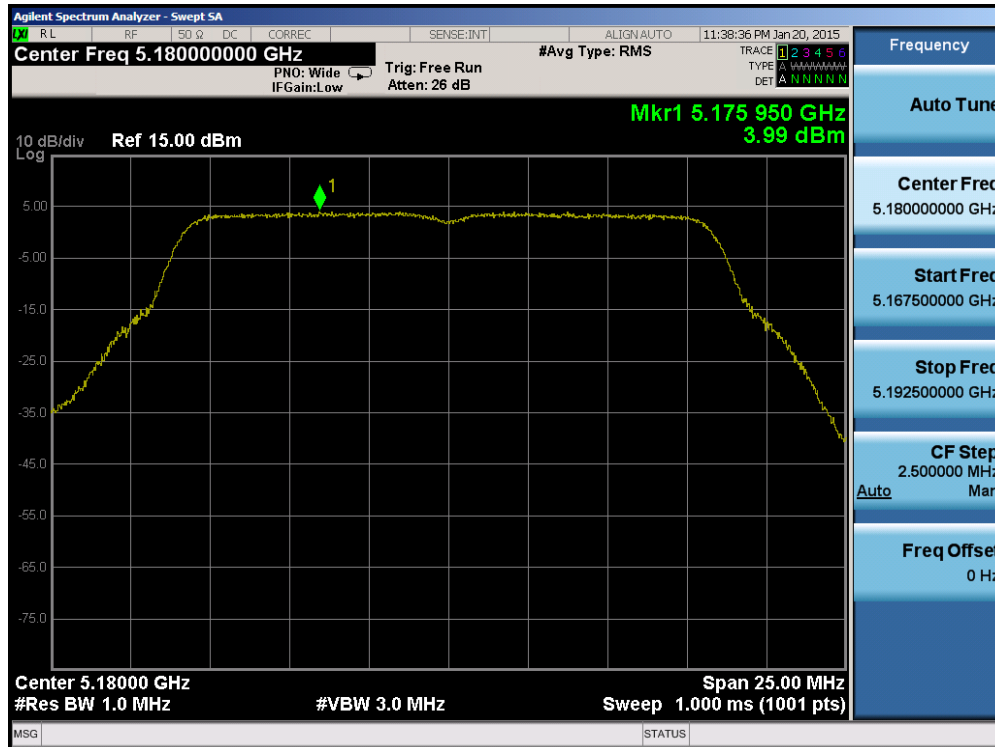


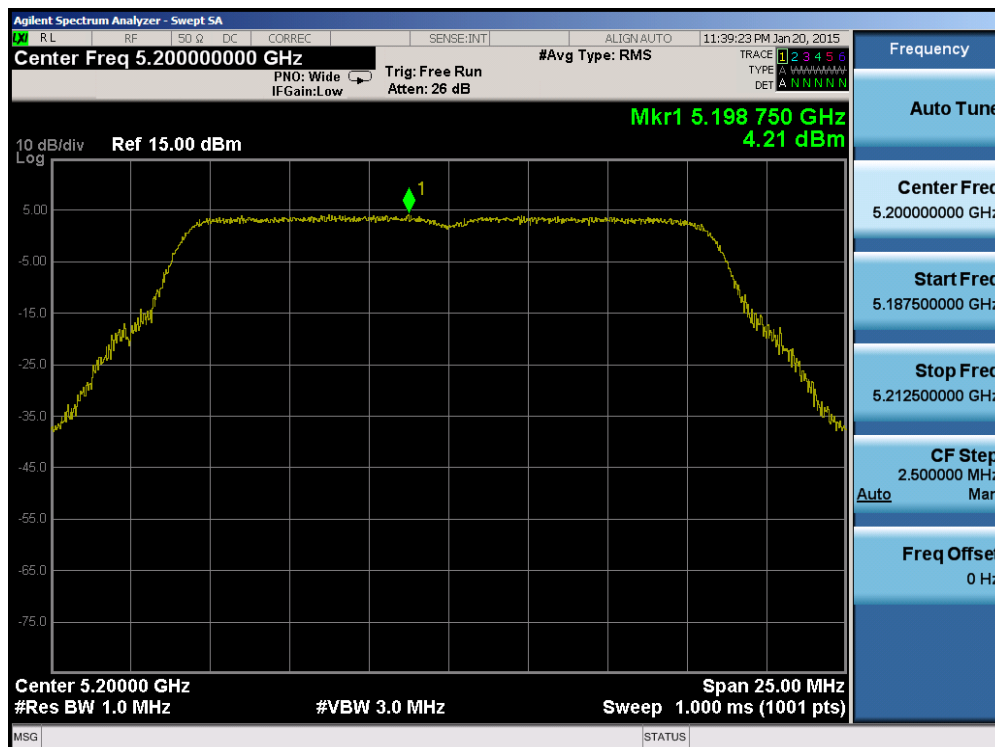
Antenna-2 Power Spectral Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/MHz]	Margin [dB]	Pass / Fail
Band 1	5180	36	a	6	3.99	11.0	-7.01	Pass
	5200	40	a	6	4.21	11.0	-6.79	Pass
	5240	48	a	6	4.41	11.0	-6.59	Pass
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	3.54	11.0	-7.46	Pass
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	3.41	11.0	-7.59	Pass
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	3.54	11.0	-7.47	Pass
	5190	38	n (40MHz)	13.5/15 (MCS0)	-1.42	11.0	-12.42	Pass
	5230	46	n (40MHz)	13.5/15 (MCS0)	-1.29	11.0	-12.29	Pass
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-4.38	11.0	-15.38	Pass
Band 2A	5260	52	a	6	4.26	11.0	-6.74	Pass
	5280	56	a	6	3.75	11.0	-7.26	Pass
	5320	64	a	6	3.04	11.0	-7.96	Pass
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	3.30	11.0	-7.70	Pass
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	3.25	11.0	-7.75	Pass
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	2.85	11.0	-8.15	Pass
	5270	54	n (40MHz)	13.5/15 (MCS0)	-0.98	11.0	-11.98	Pass
	5310	62	n (40MHz)	13.5/15 (MCS0)	-1.45	11.0	-12.45	Pass
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-4.77	11.0	-15.77	Pass
Band 2C	5500	100	a	6	3.97	11.0	-7.03	Pass
	5580	116	a	6	3.87	11.0	-7.13	Pass
	5720	144	a	6	3.32	11.0	-7.68	Pass
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	2.78	11.0	-8.22	Pass
	5580	116	n (20MHz)	6.5/7.2 (MCS0)	1.65	11.0	-9.35	Pass
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	2.10	11.0	-8.90	Pass
	5510	102	n (40MHz)	13.5/15 (MCS0)	-1.37	11.0	-12.37	Pass
	5550	110	n (40MHz)	13.5/15 (MCS0)	-0.45	11.0	-11.45	Pass
	5710	142	n (40MHz)	13.5/15 (MCS0)	-3.09	11.0	-14.09	Pass
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-5.25	11.0	-16.25	Pass
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-6.38	11.0	-17.38	Pass

Table 6-19. Conducted Power Spectral Density Measurements

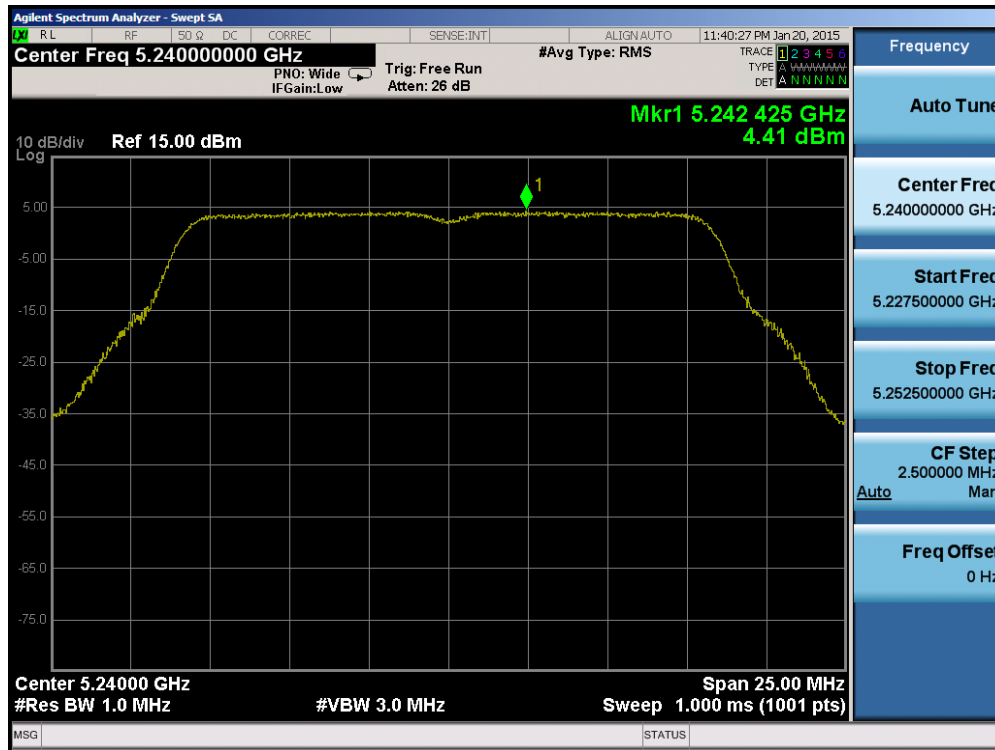


Plot 6-115. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 36)

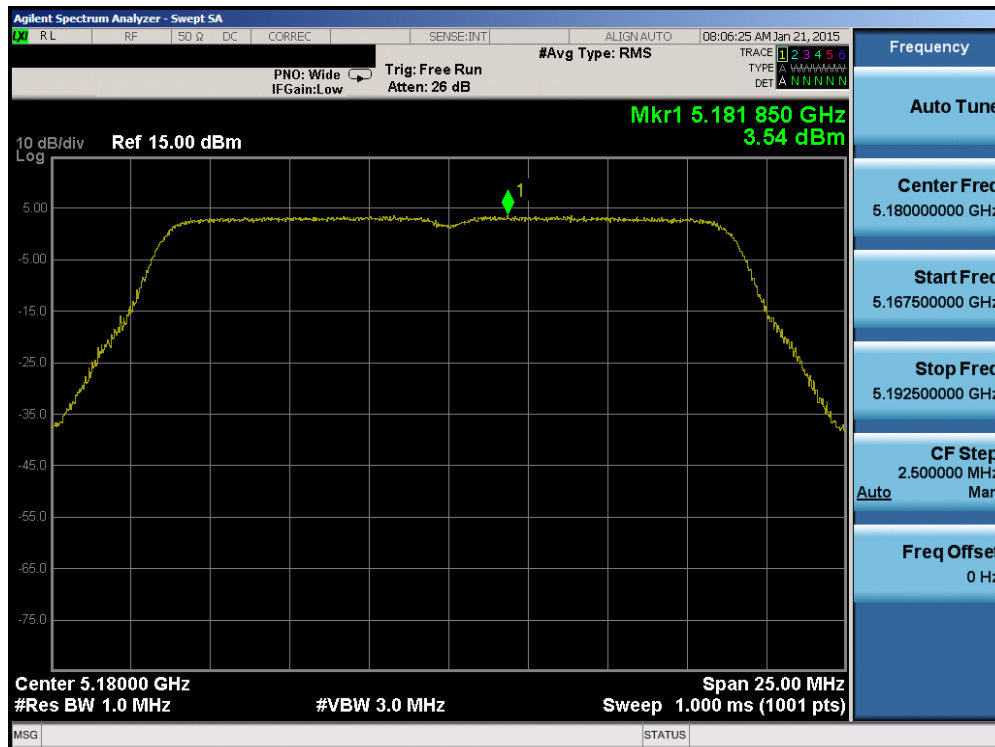


Plot 6-116. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 40)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 84 of 211

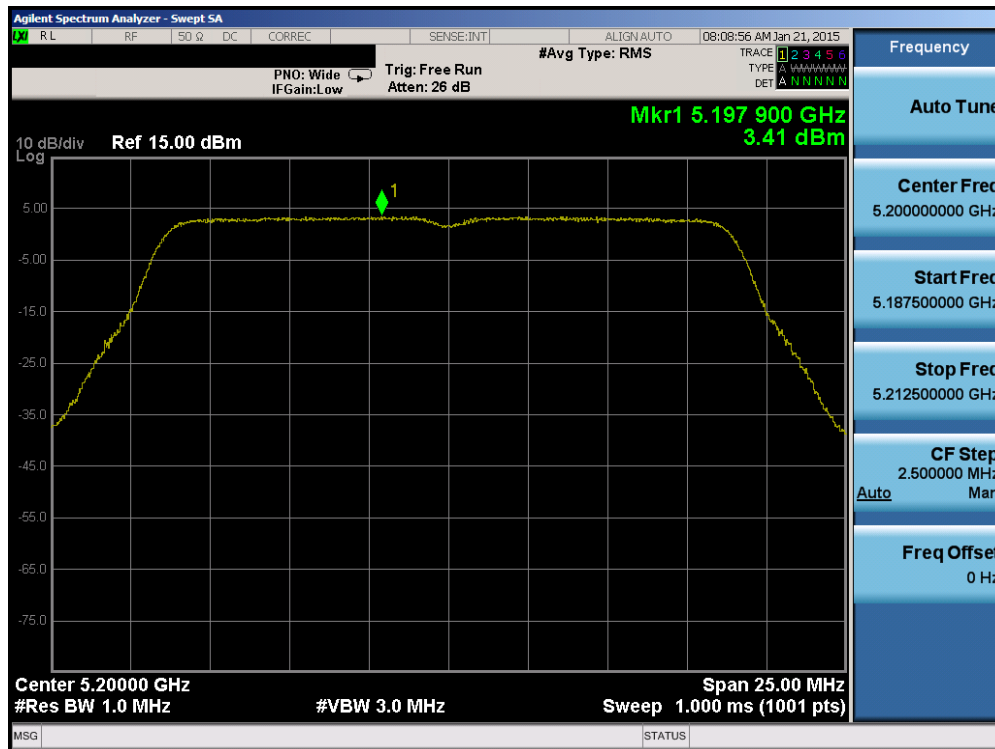


Plot 6-117. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 48)

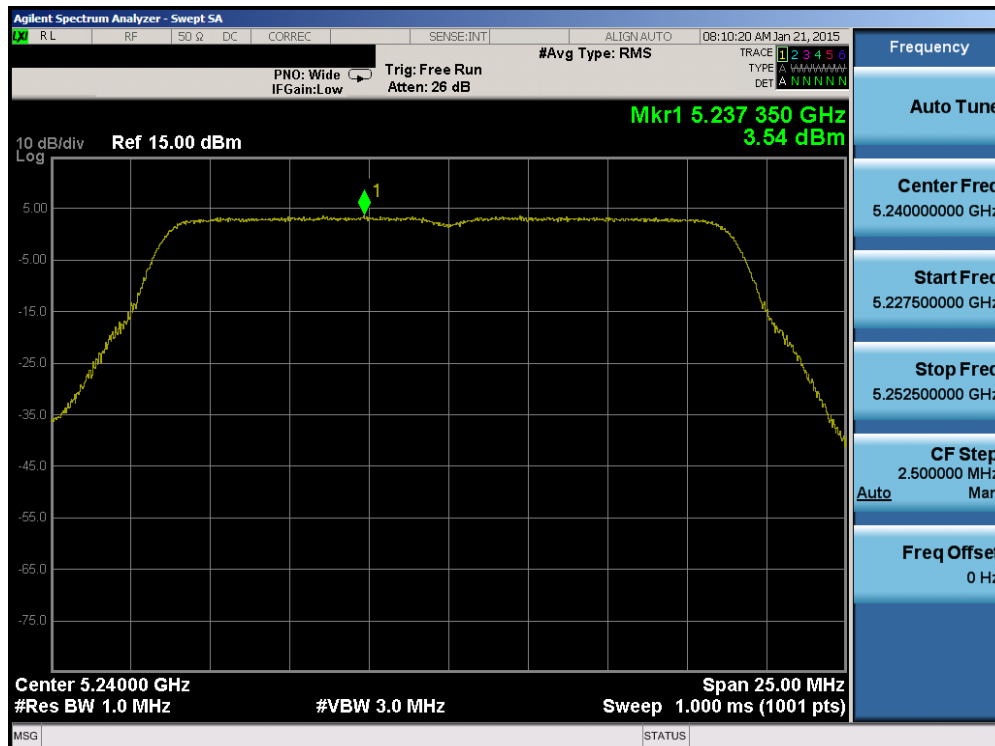


Plot 6-118. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 85 of 211

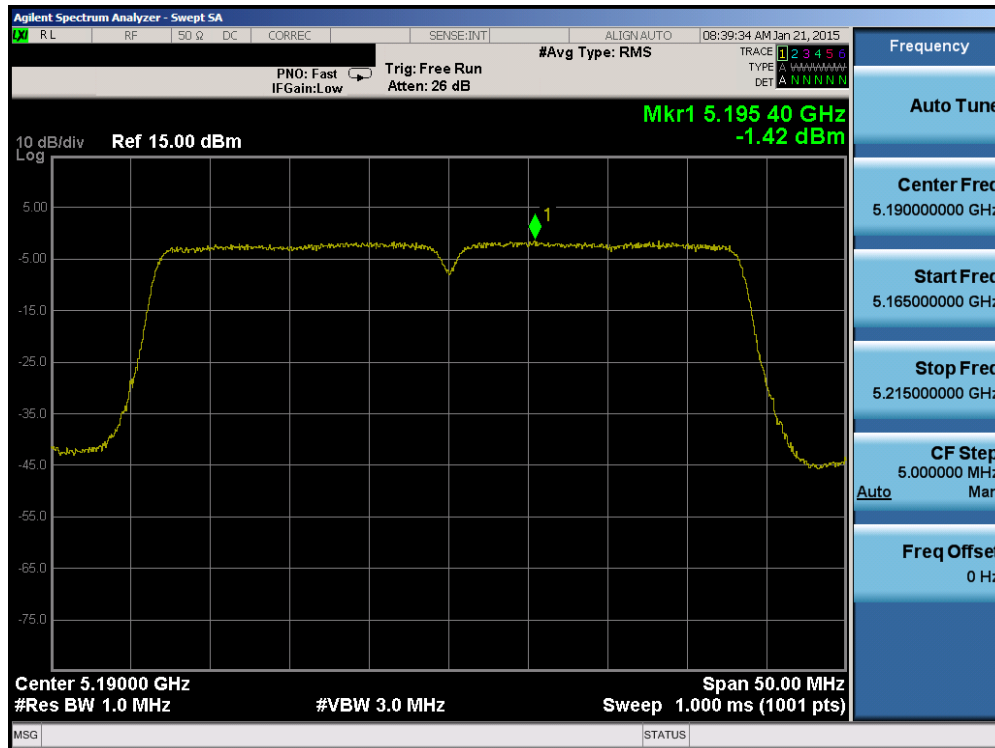


Plot 6-119. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

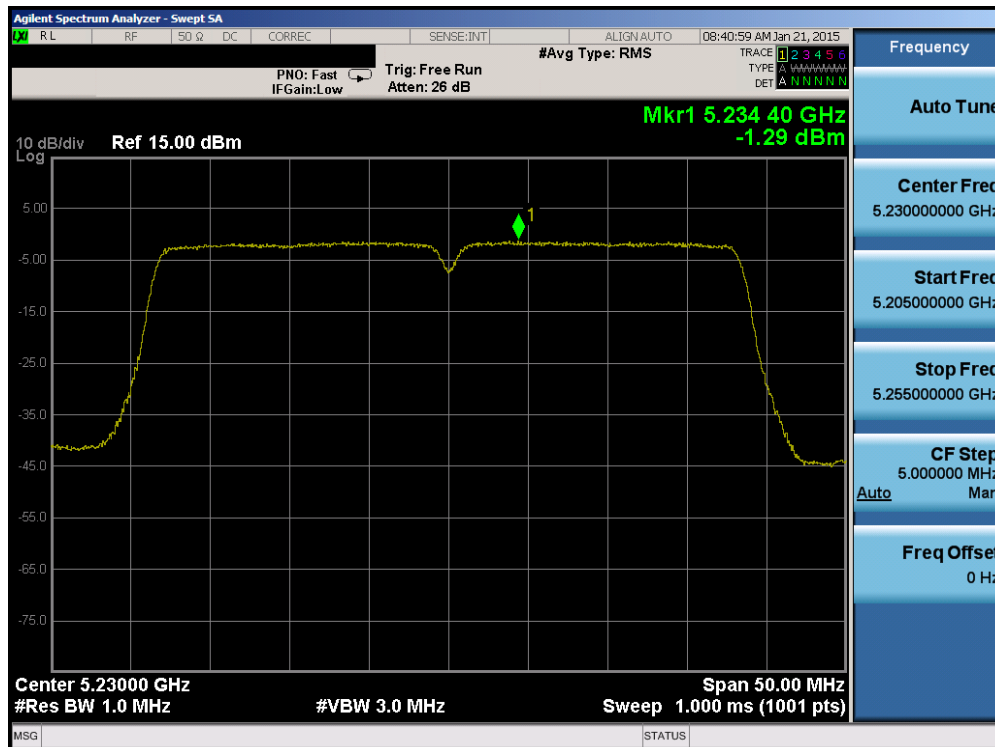


Plot 6-120. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 86 of 211

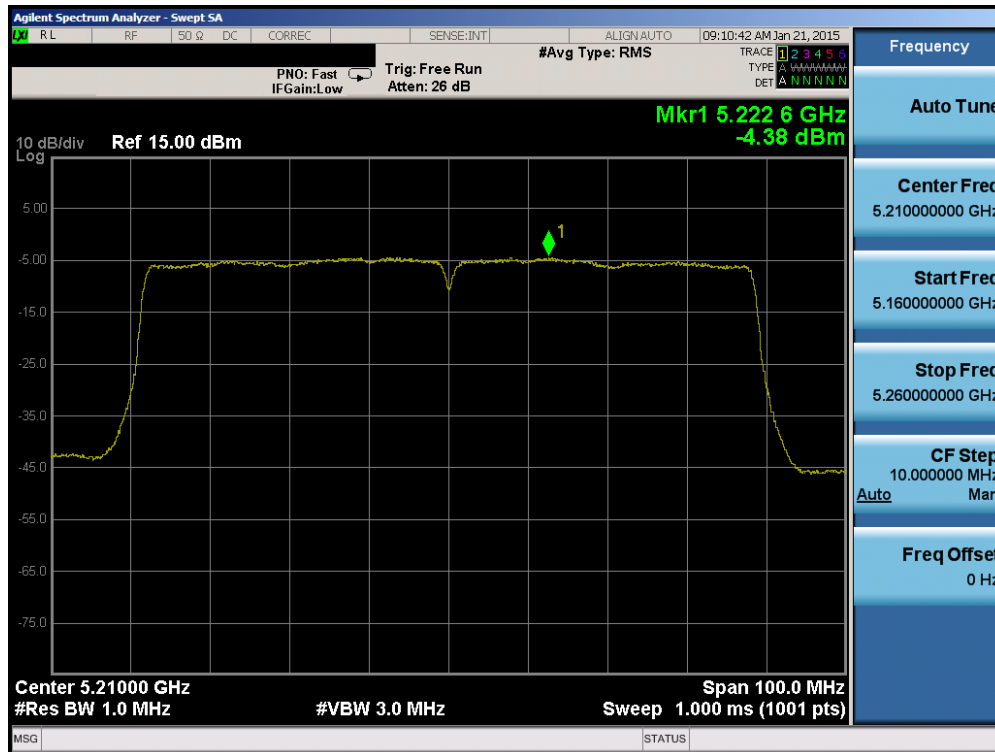


Plot 6-121. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

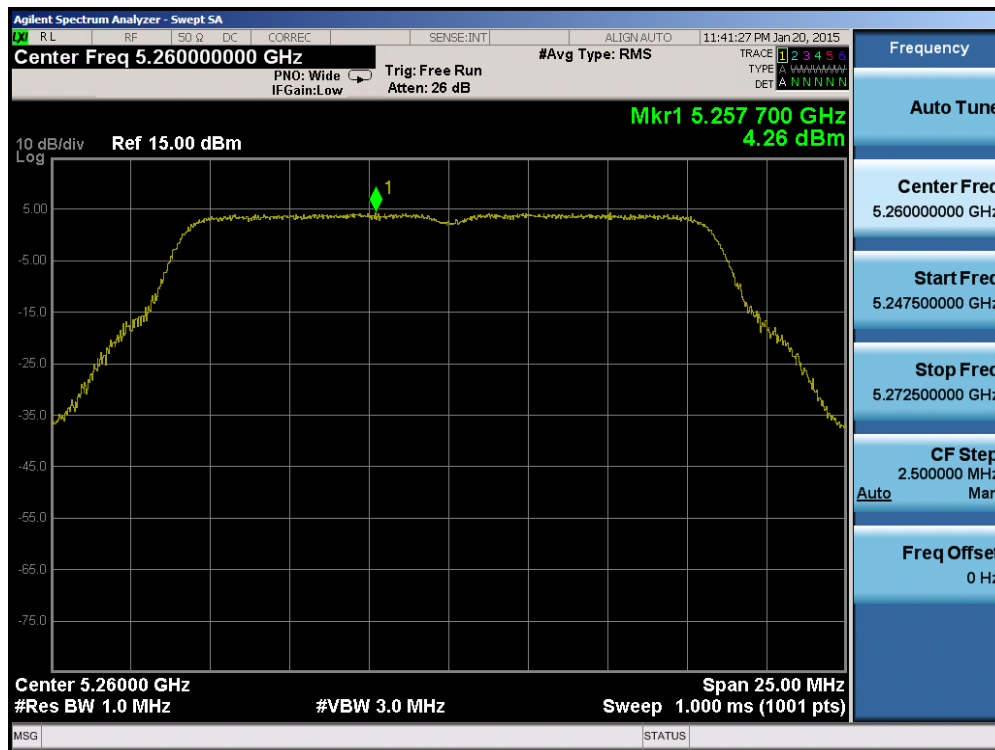


Plot 6-122. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 87 of 211

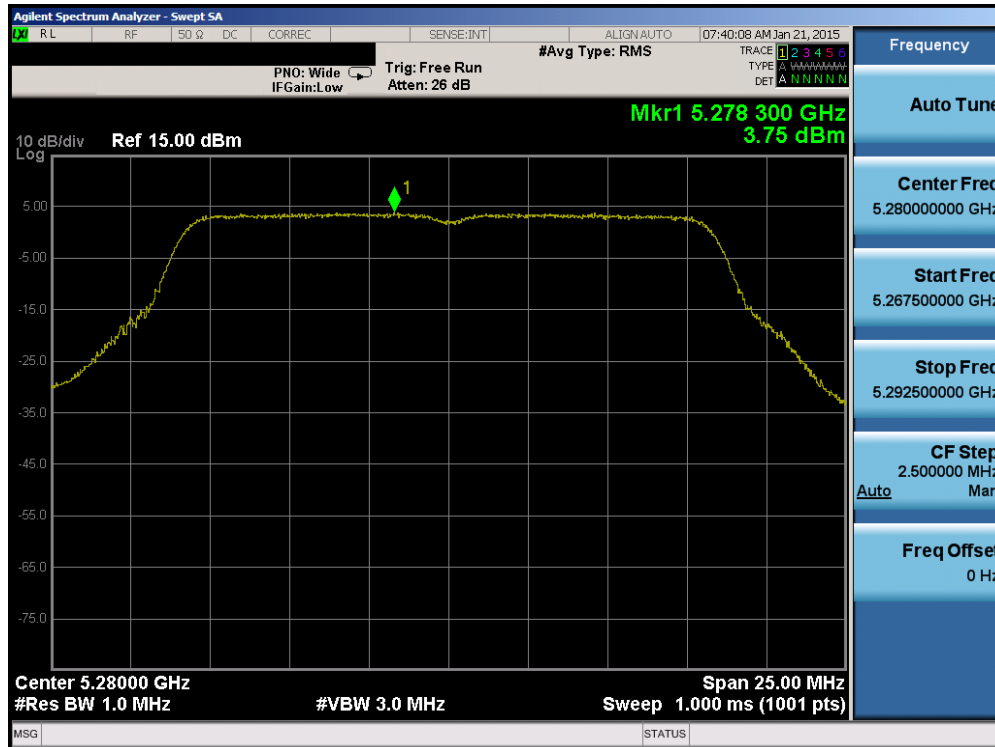


Plot 6-123. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

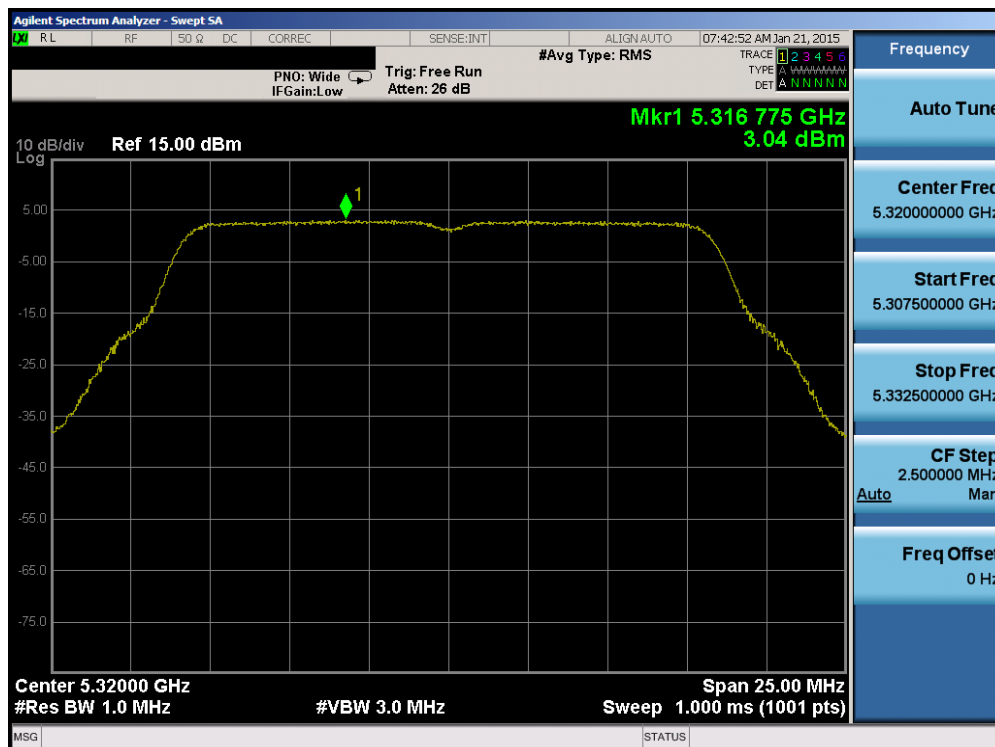


Plot 6-124. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 88 of 211

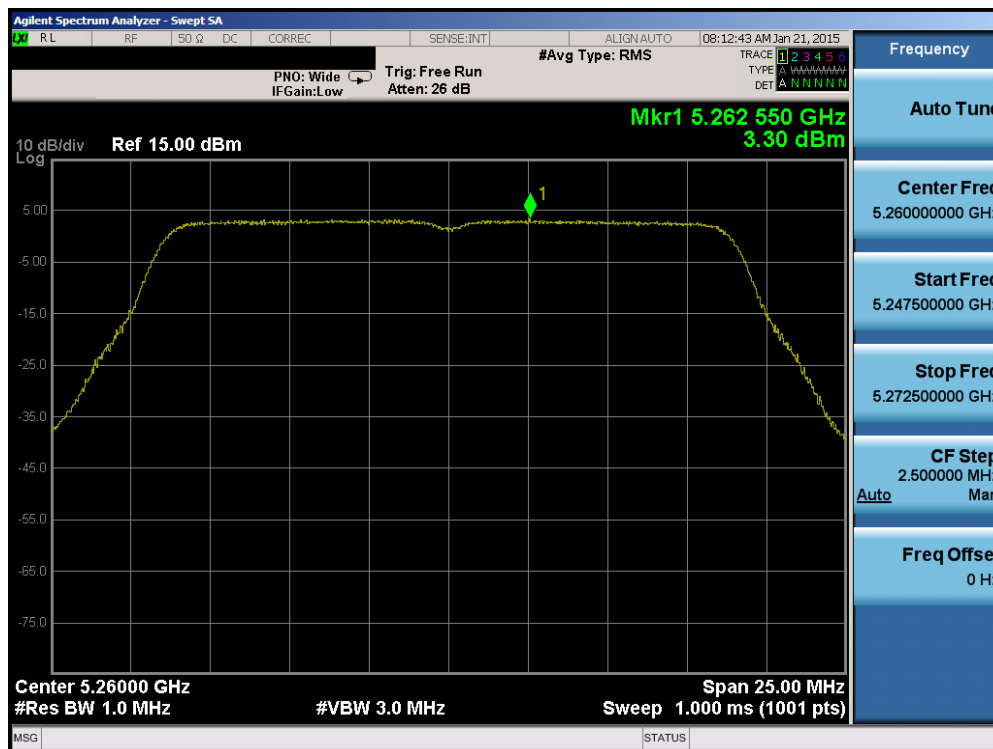


Plot 6-125. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 56)

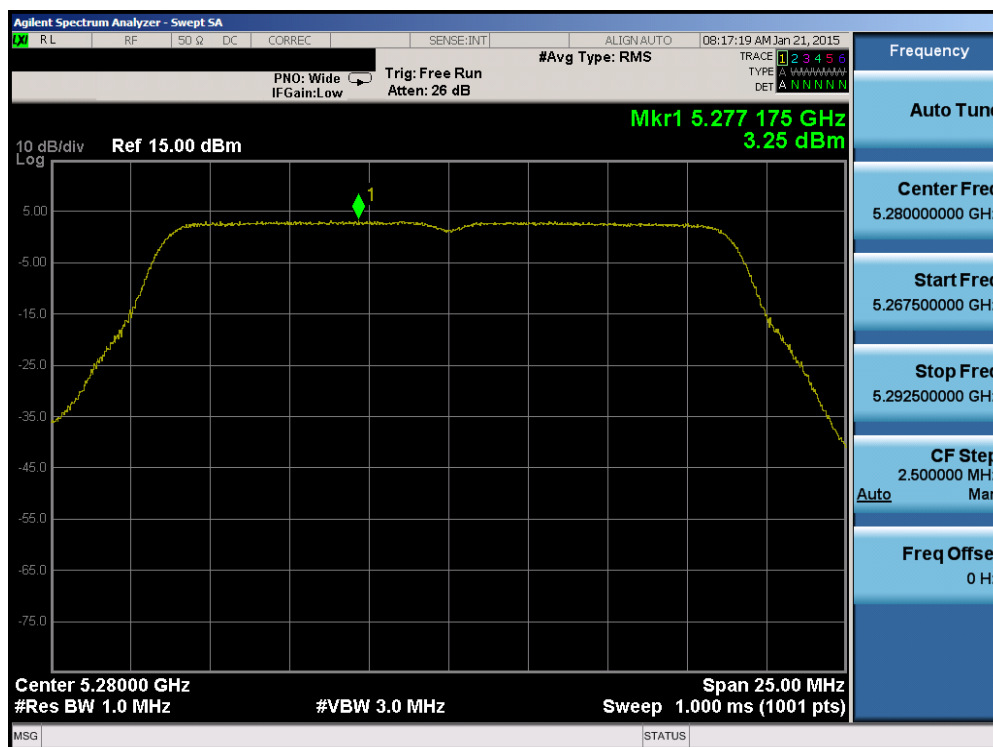


Plot 6-126. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 89 of 211

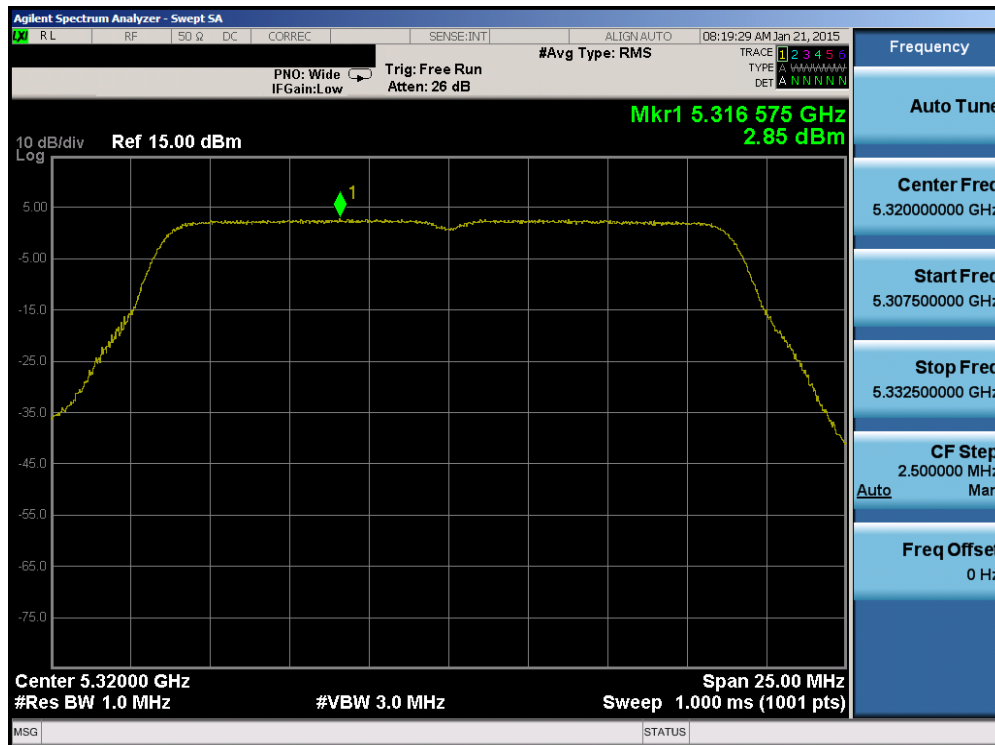


Plot 6-127. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

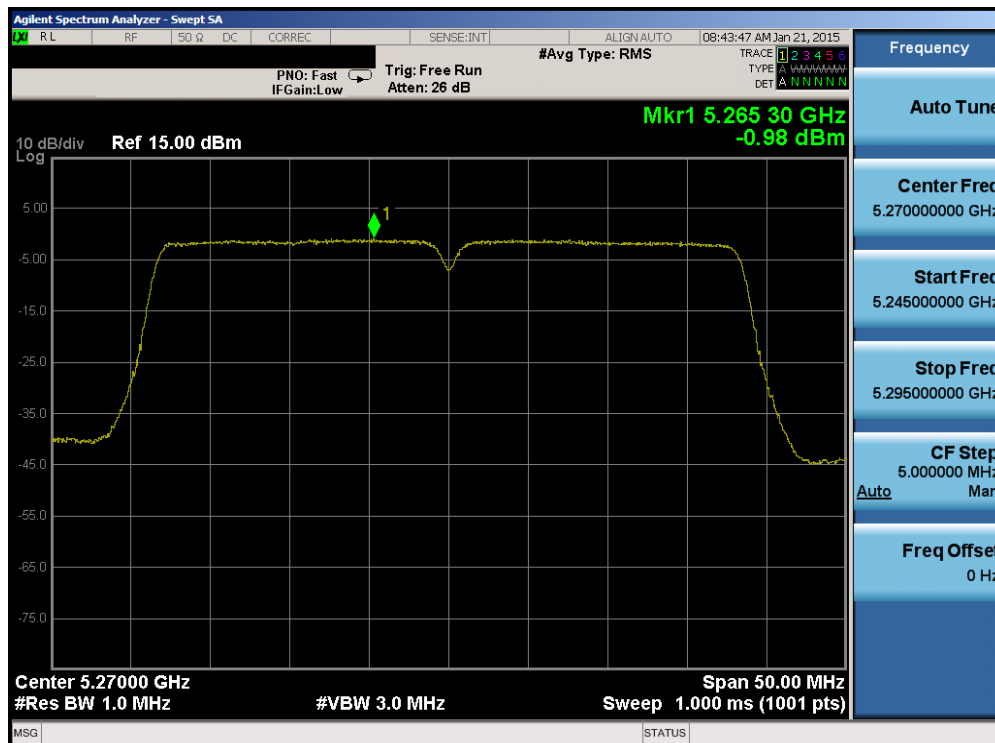


Plot 6-128. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 90 of 211

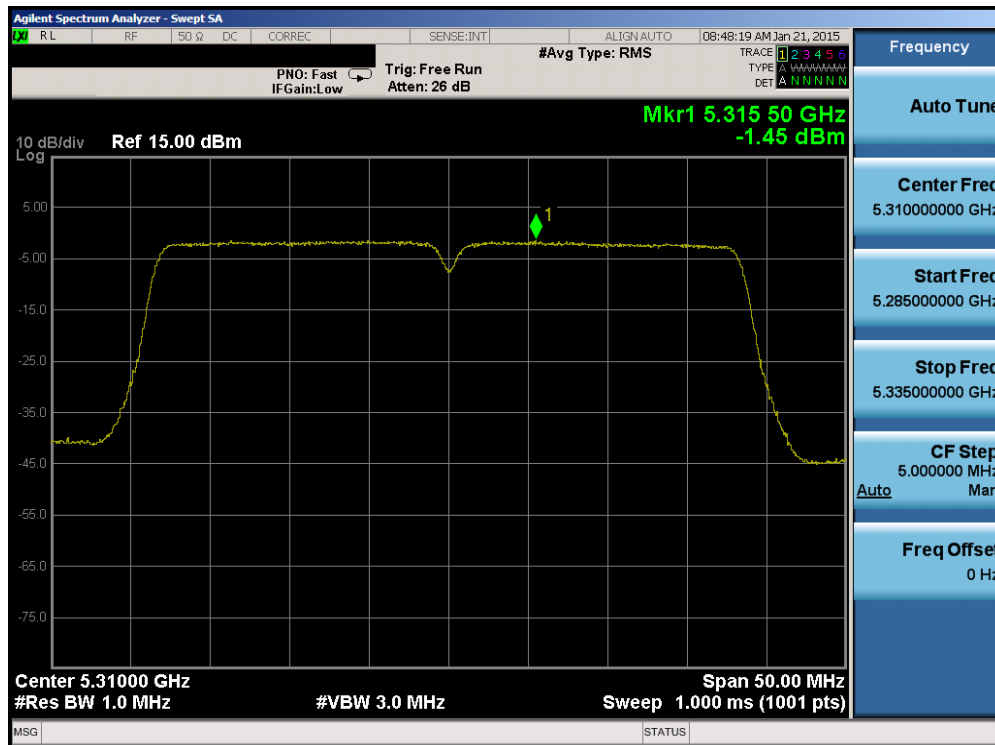


Plot 6-129. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

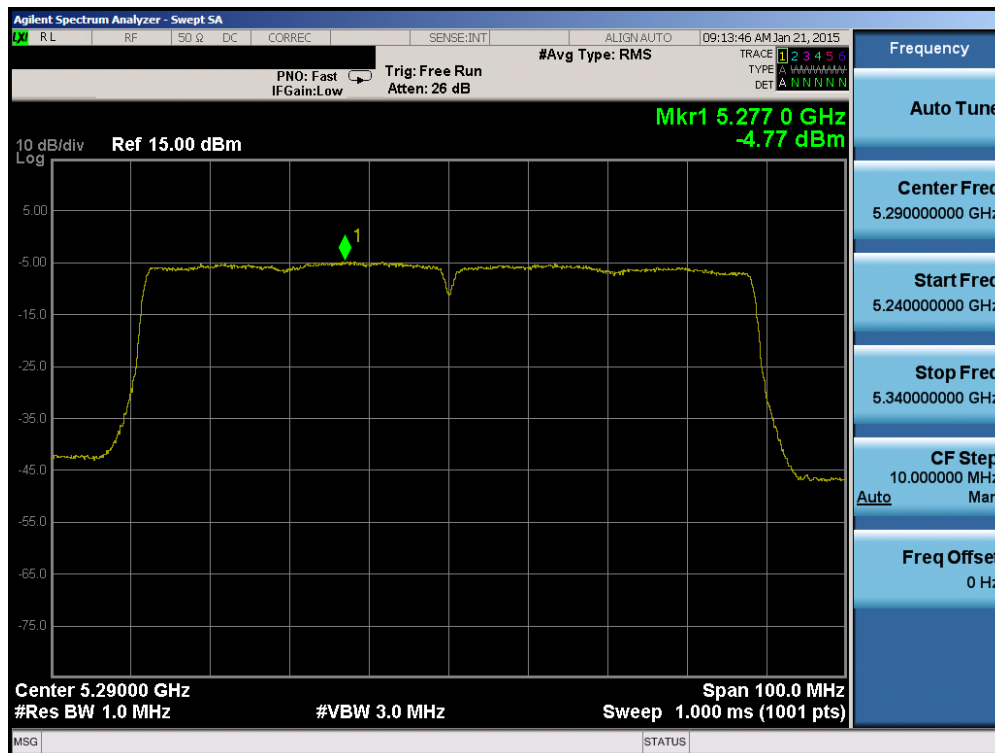


Plot 6-130. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 91 of 211

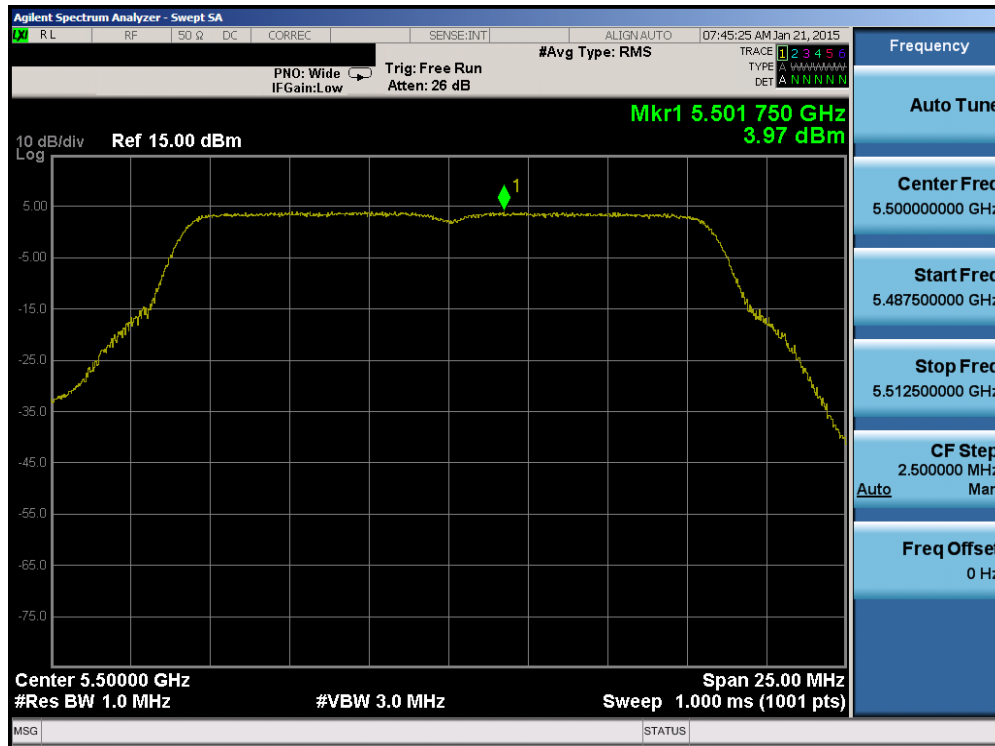


Plot 6-131. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

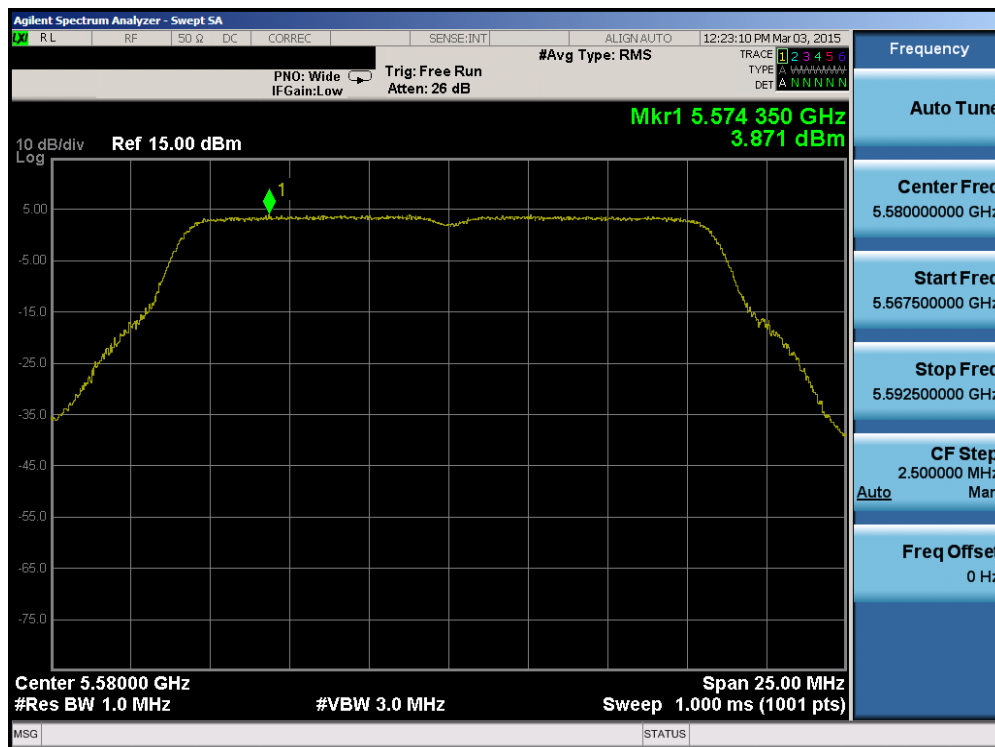


Plot 6-132. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 92 of 211

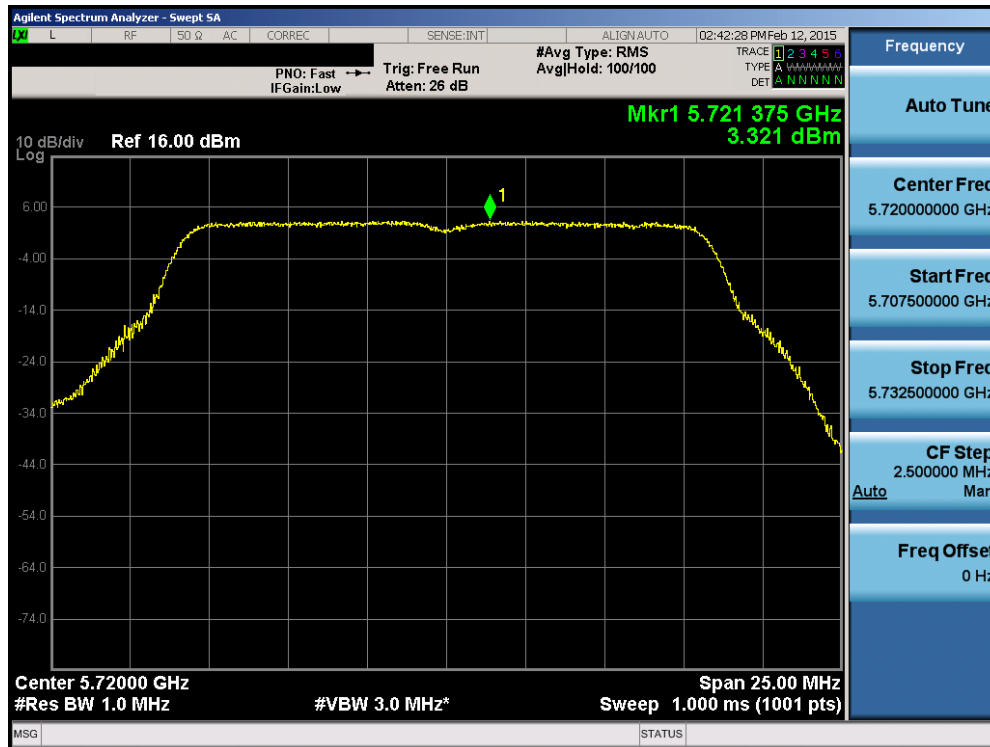


Plot 6-133. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 100)

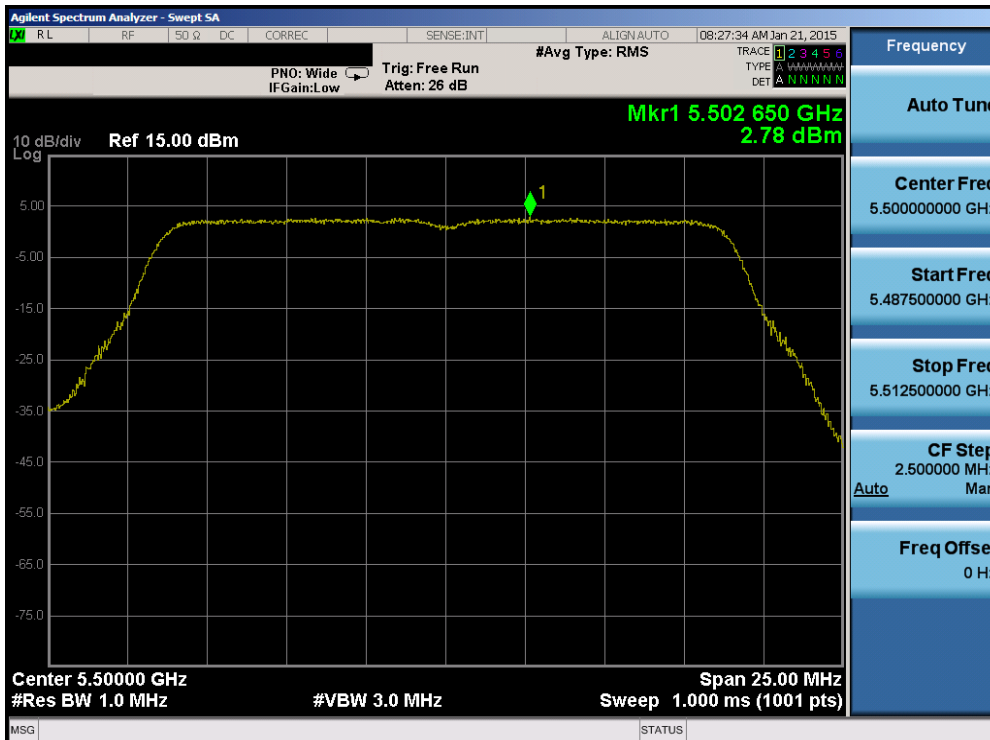


Plot 6-134. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 116)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 93 of 211

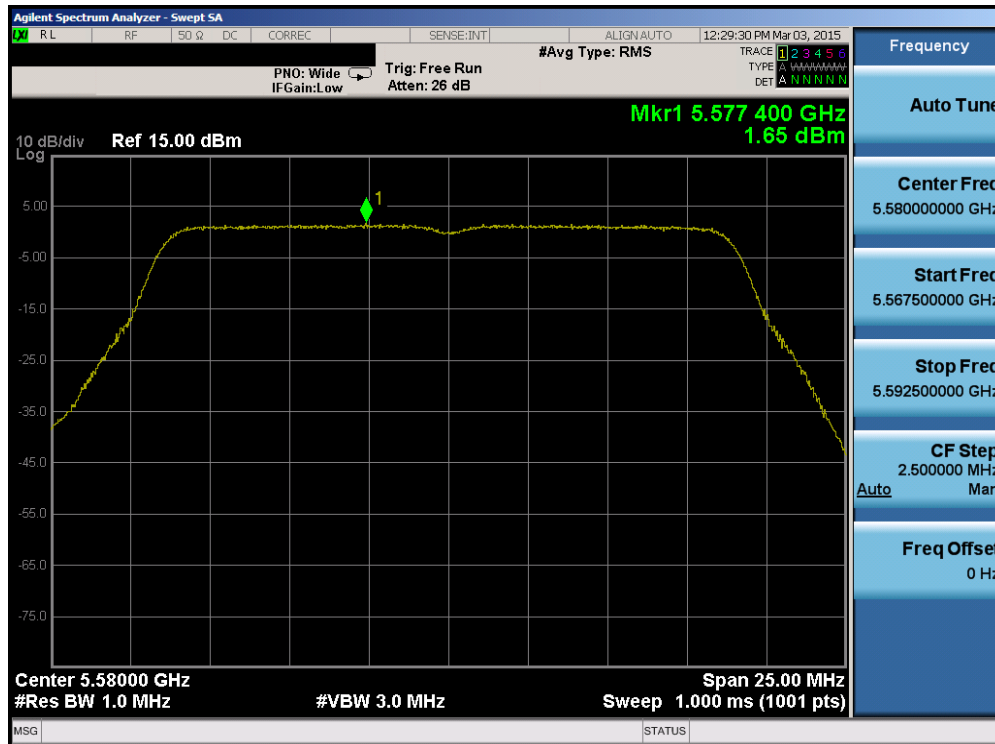


Plot 6-135. Power Spectral Density Plot (20MHz BW 802.11a (UNII Band 2C) – Ch. 144)

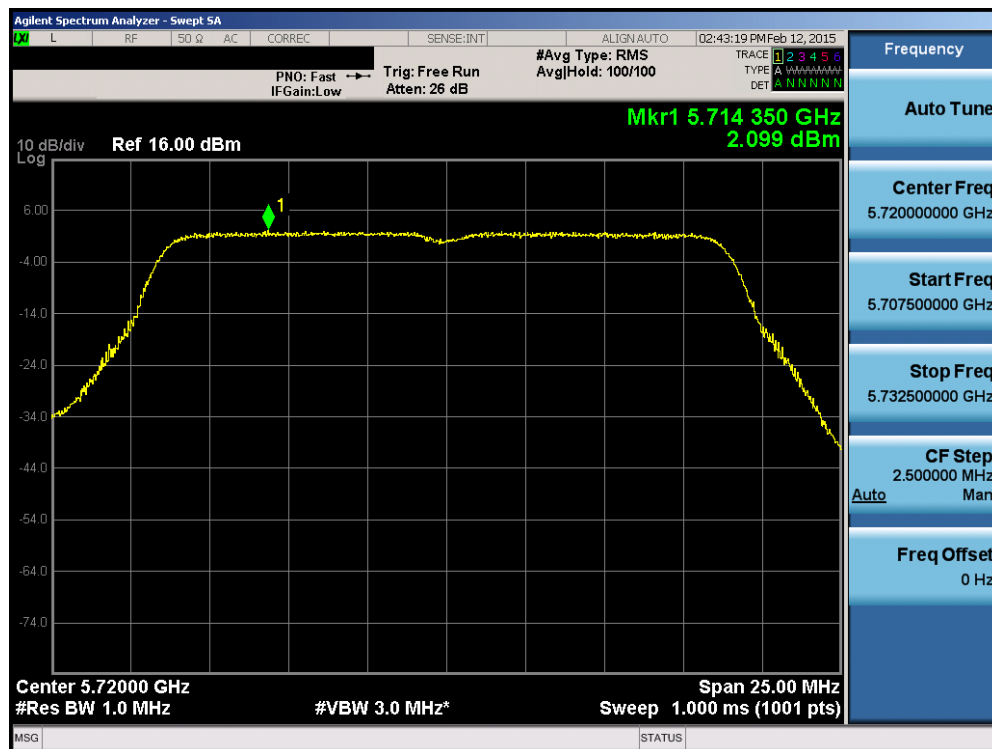


Plot 6-136. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 94 of 211

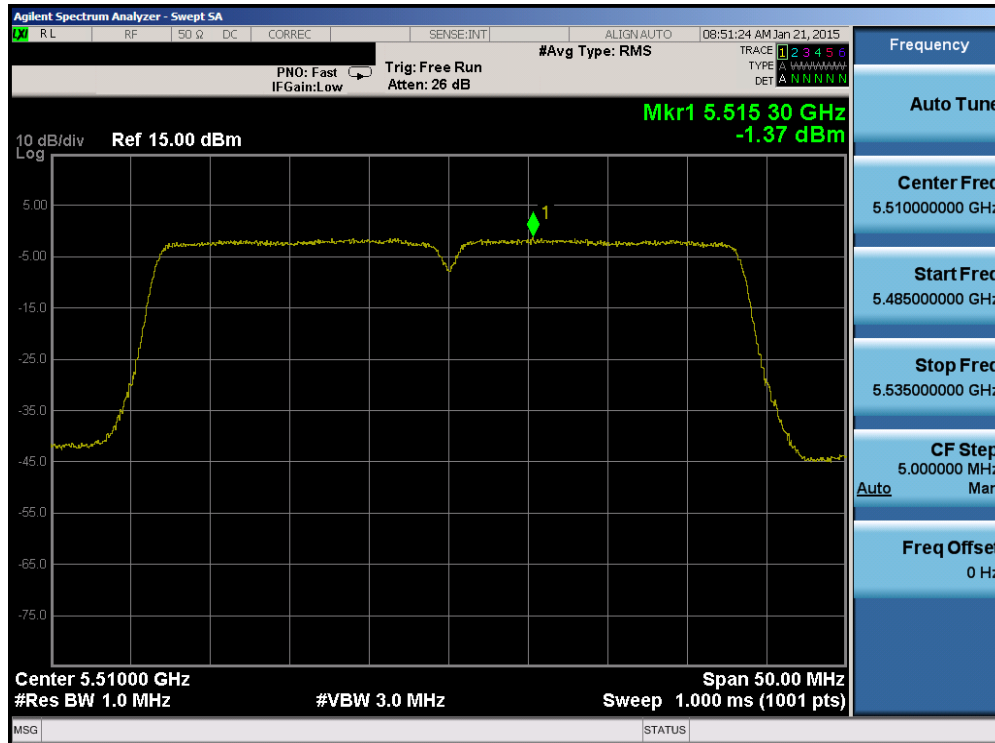


Plot 6-137. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 116)

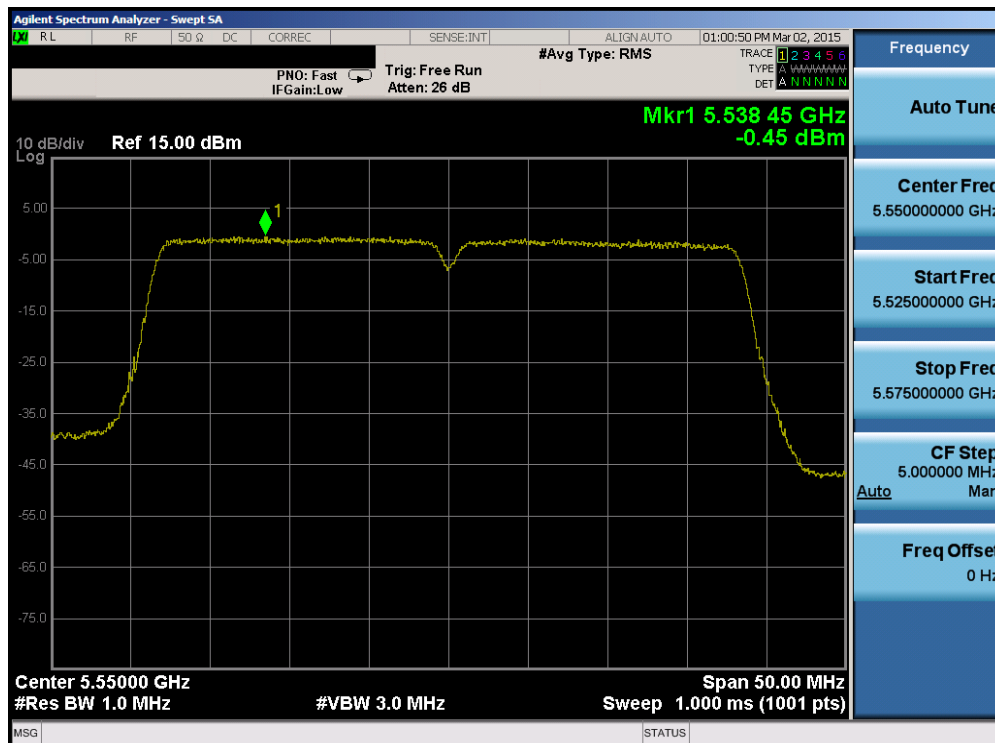


Plot 6-138. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 95 of 211

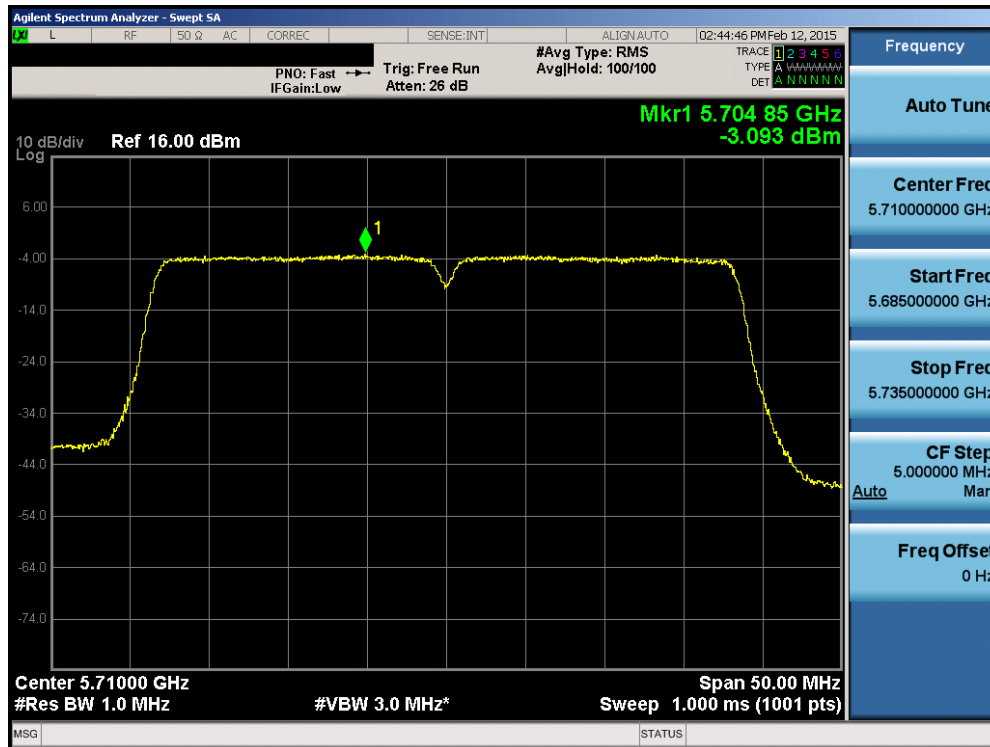


Plot 6-139. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

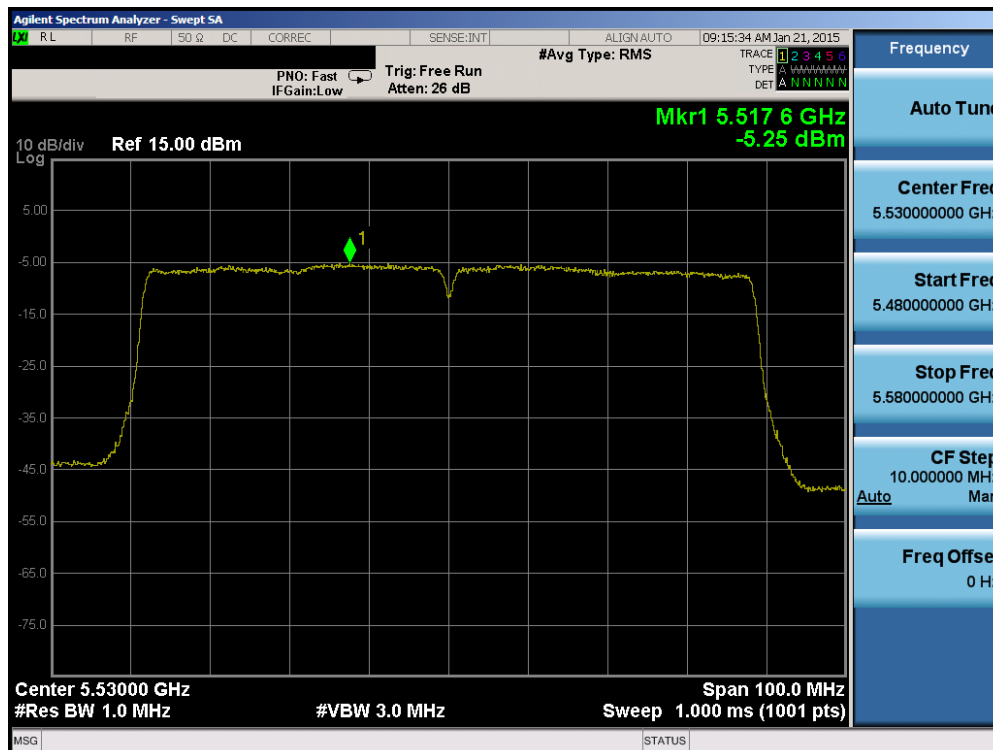


Plot 6-140. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 110)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 96 of 211

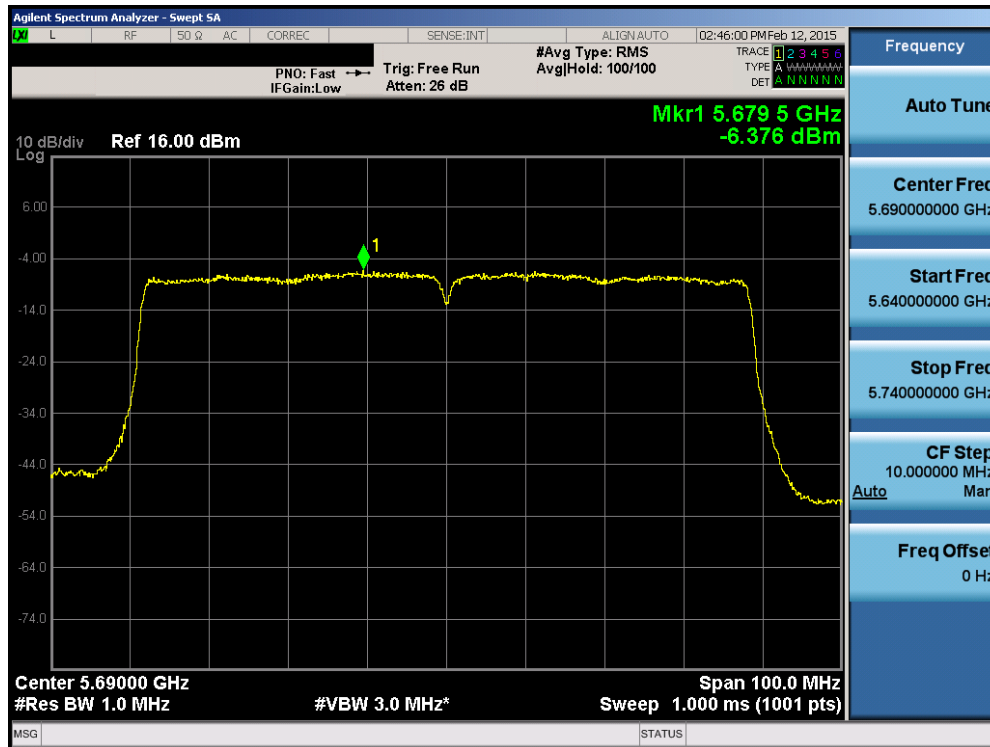


Plot 6-141. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)



Plot 6-142. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMG925R4	 FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset	Page 97 of 211

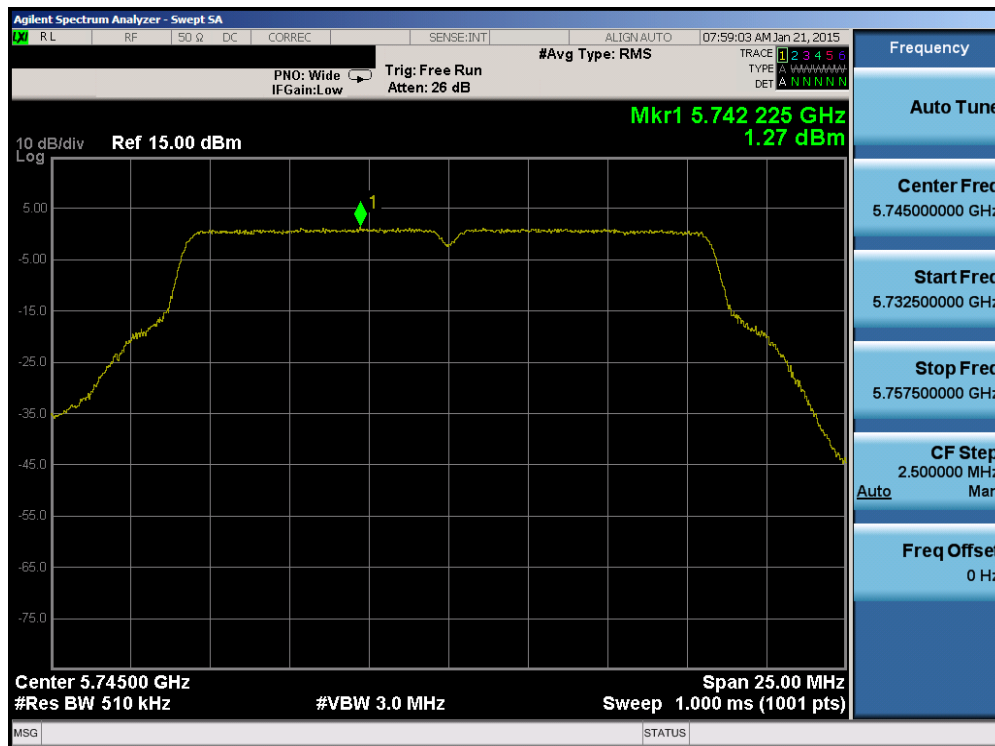


Plot 6-143. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 98 of 211

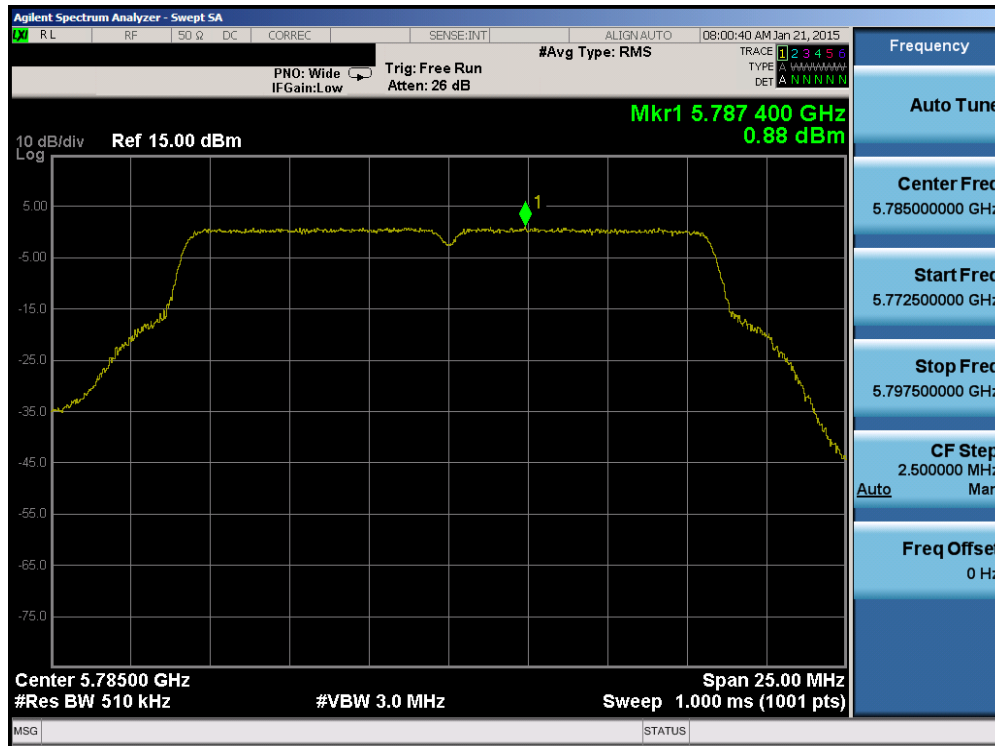
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]	Pass / Fail
Band 3	5745	149	a	6	1.27	30.0	-28.73	Pass
	5785	157	a	6	0.88	30.0	-29.12	Pass
	5825	165	a	6	0.76	30.0	-29.24	Pass
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	-0.22	30.0	-30.22	Pass
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	-0.41	30.0	-30.41	Pass
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	-0.16	30.0	-30.16	Pass
	5755	151	n (40MHz)	13.5/15 (MCS0)	-3.77	30.0	-33.77	Pass
	5795	159	n (40MHz)	13.5/15 (MCS0)	-4.51	30.0	-34.51	Pass
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-8.41	30.0	-38.41	Pass

Table 6-20. Band 3 Conducted Power Spectral Density Measurements

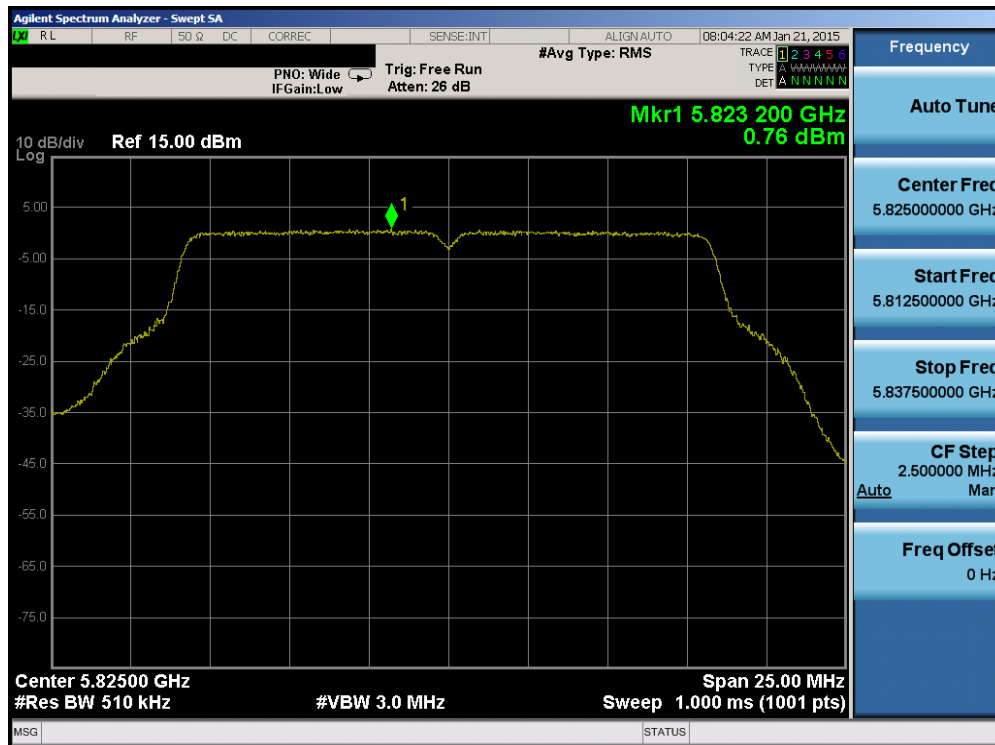


Plot 6-144. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 149)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 99 of 211



Plot 6-145. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 157)

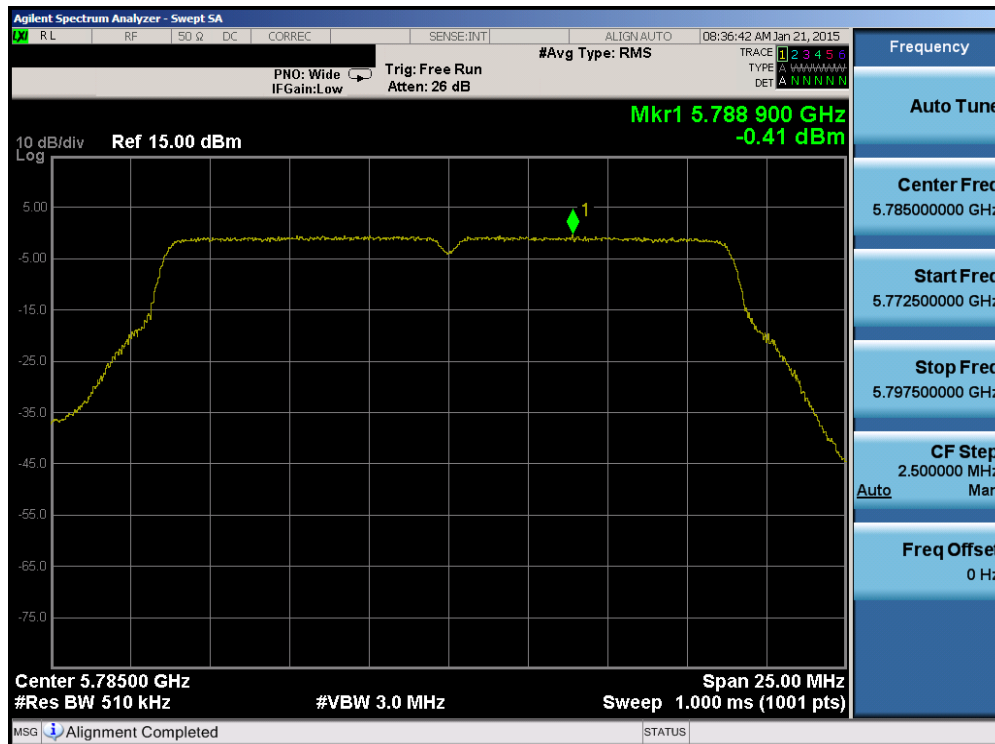


Plot 6-146. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 165)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 100 of 211

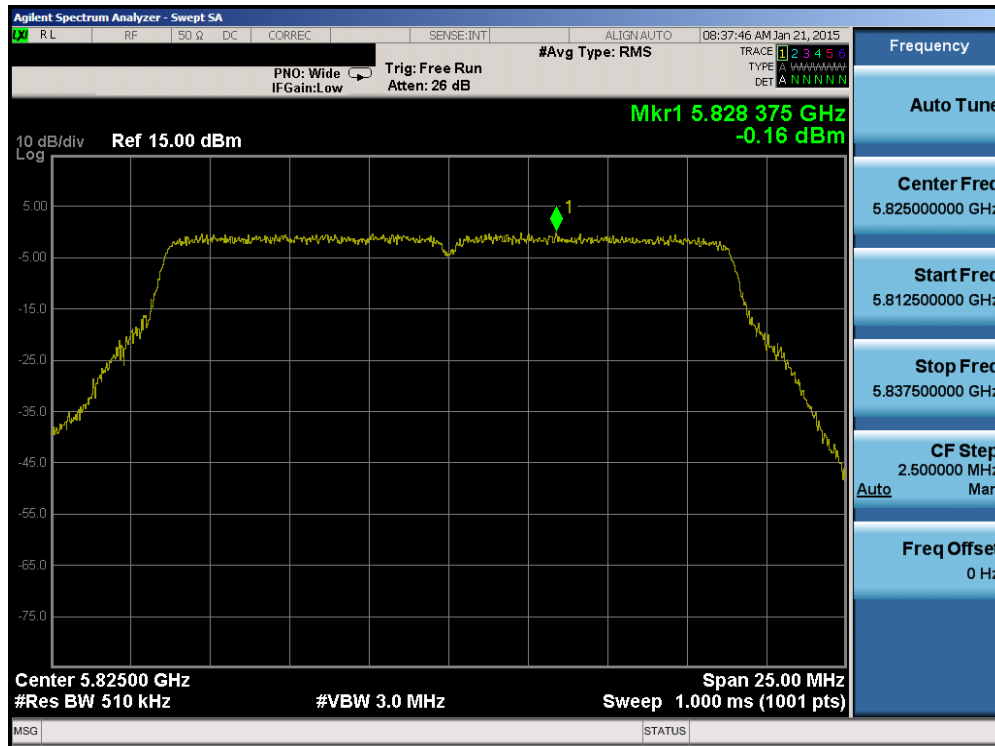


Plot 6-147. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

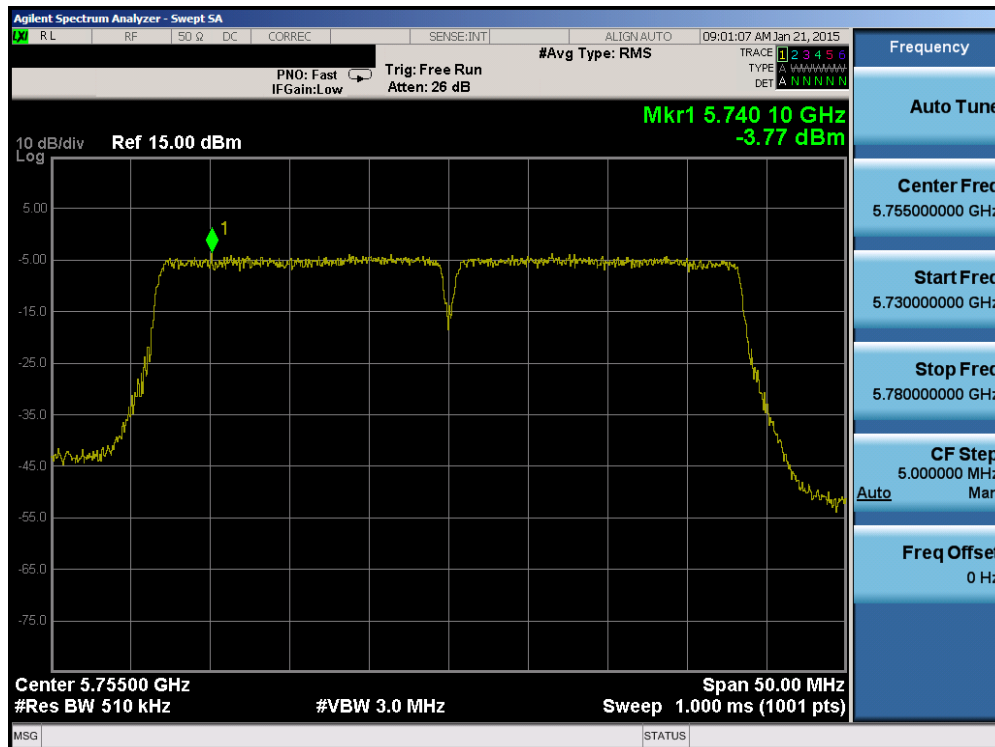


Plot 6-148. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 101 of 211

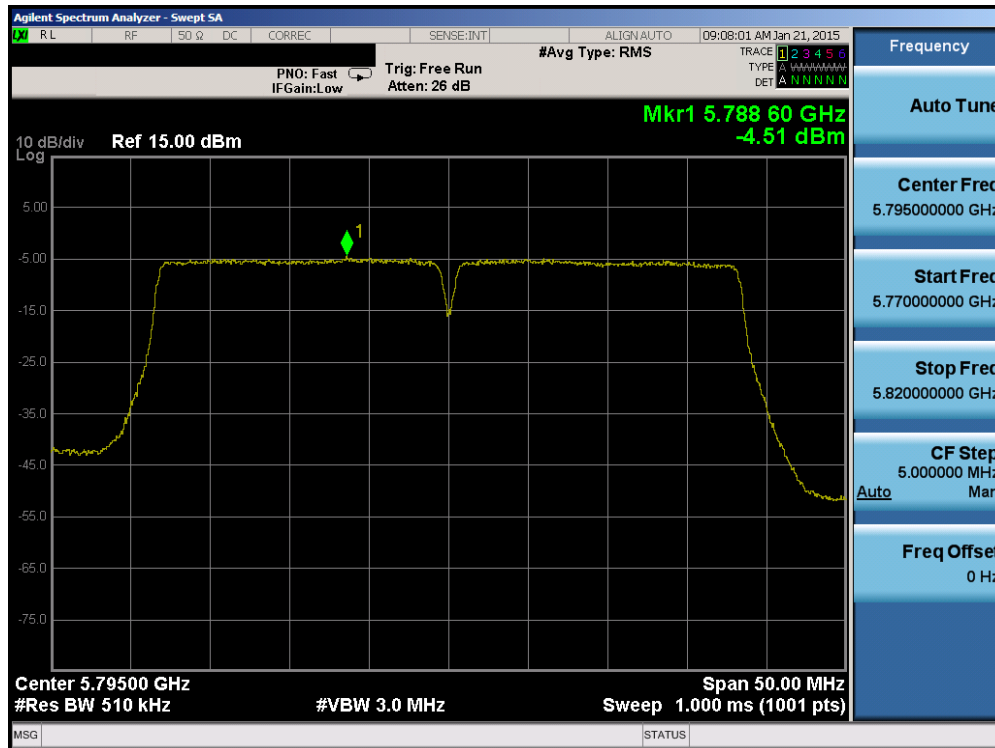


Plot 6-149. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

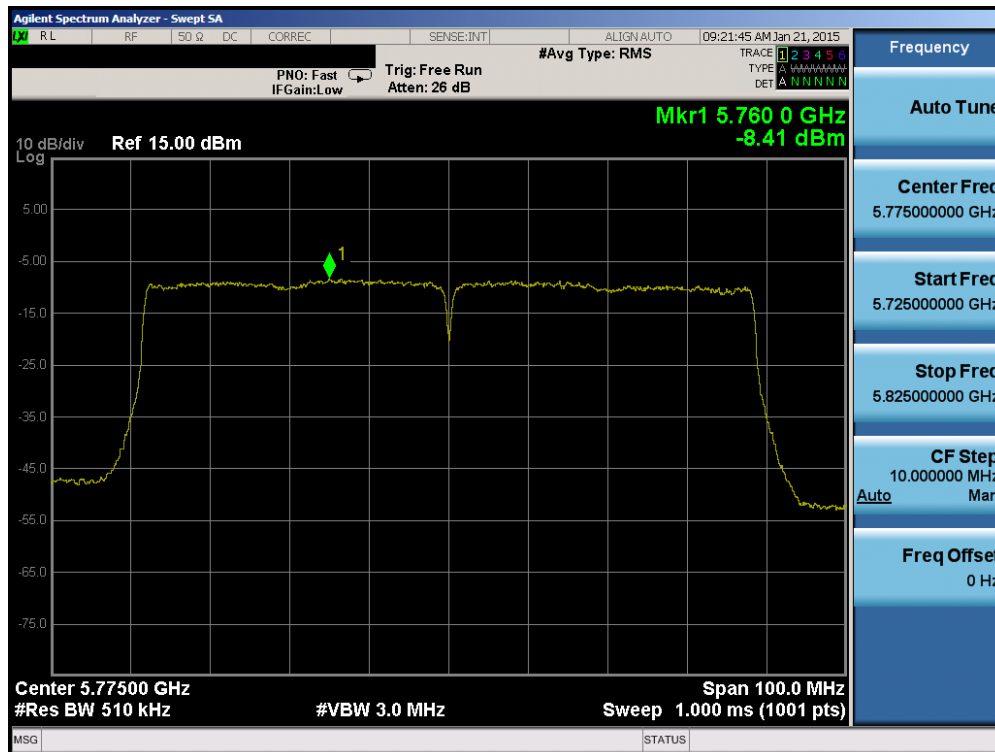


Plot 6-150. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-151. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 159)



Plot 6-152. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 3) – Ch. 155)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Summed MIMO 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/MHz]	Margin [dB]	Pass / Fail
Band 1	5180	36	n (20MHz)	6.5/7.2 (MCS0)	3.39	3.54	6.47	11.0	-4.53	Pass
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	3.52	3.41	6.47	11.0	-4.53	Pass
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	3.73	3.54	6.64	11.0	-4.36	Pass
	5190	38	n (40MHz)	13.5/15 (MCS0)	-1.30	-1.42	1.65	11.0	-9.35	Pass
	5230	46	n (40MHz)	13.5/15 (MCS0)	-0.46	-1.29	2.16	11.0	-8.84	Pass
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-4.30	-4.38	-1.33	11.0	-12.33	Pass
Band 2A	5260	52	n (20MHz)	6.5/7.2 (MCS0)	3.75	3.30	6.54	11.0	-4.46	Pass
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	3.72	3.25	6.50	11.0	-4.50	Pass
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	2.96	2.85	5.91	11.0	-5.09	Pass
	5270	54	n (40MHz)	13.5/15 (MCS0)	-0.21	-0.98	2.43	11.0	-8.57	Pass
	5310	62	n (40MHz)	13.5/15 (MCS0)	-0.88	-1.45	1.85	11.0	-9.15	Pass
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-3.87	-4.77	-1.28	11.0	-12.28	Pass
Band 2C	5500	100	n (20MHz)	6.5/7.2 (MCS0)	3.23	2.78	6.02	11.0	-4.98	Pass
	5580	116	n (20MHz)	6.5/7.2 (MCS0)	2.80	1.65	5.27	11.0	-5.73	Pass
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	2.57	2.10	5.35	11.0	-5.65	Pass
	5510	102	n (40MHz)	13.5/15 (MCS0)	-0.68	-1.37	2.00	11.0	-9.00	Pass
	5550	110	n (40MHz)	13.5/15 (MCS0)	-0.39	-0.45	2.59	11.0	-8.41	Pass
	5710	142	n (40MHz)	13.5/15 (MCS0)	-2.27	-3.09	0.35	11.0	-10.65	Pass
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-4.47	-5.25	-1.83	11.0	-12.83	Pass
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-6.65	-6.38	-3.50	11.0	-14.50	Pass

Table 6-21. 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]	Pass / Fail
Band 3	5745	149	n (20MHz)	6.5/7.2 (MCS0)	-0.15	-0.22	2.82	30.0	-27.18	Pass
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	-0.28	-0.41	2.66	30.0	-27.34	Pass
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	-0.83	-0.16	2.53	30.0	-27.47	Pass
	5755	151	n (40MHz)	13.5/15 (MCS0)	-3.95	-3.77	-0.85	30.0	-30.85	Pass
	5795	159	n (40MHz)	13.5/15 (MCS0)	-4.27	-4.52	-1.38	30.0	-31.38	Pass
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-7.50	-8.41	-4.92	30.0	-34.92	Pass

Table 6-22. Band 3 MIMO Conducted Power Spectral Density Measurements

Note:

Per 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 the average conducted power spectral density was measured to be 3.39 dBm for Antenna-1 and 3.55 dBm for Antenna-2.

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

$$(3.39 \text{ dBm} + 3.55 \text{ dBm}) = (2.18 \text{ mW} + 2.26 \text{ mW}) = 4.44 \text{ mW} = 6.48 \text{ dBm}$$

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6.6 Frequency Stability

§15.407(g)

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -30°C and +50°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

OPERATING FREQUENCY: 5,180,000,000 Hz
 CHANNEL: 36
 REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	5,179,999,653	-347	-0.00000670
100 %		- 30	5,180,000,043	43	0.00000083
100 %		- 20	5,179,999,867	-133	-0.00000257
100 %		- 10	5,180,000,282	282	0.00000544
100 %		0	5,179,999,880	-120	-0.00000232
100 %		+ 10	5,180,000,073	73	0.00000141
100 %		+ 20	5,180,000,350	350	0.00000676
100 %		+ 30	5,180,000,394	394	0.00000761
100 %		+ 40	5,180,000,099	99	0.00000191
100 %		+ 50	5,179,999,986	-14	-0.00000027
BATT. ENDPOINT	3.40	+ 20	5,180,000,144	144	0.00000278

Table 6-23. Frequency Stability Measurements for UNII Band 1 (Ch. 36)

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Frequency Stability

§15.407(g)

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -30°C and +50°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

OPERATING FREQUENCY: 5,260,000,000 Hz
 CHANNEL: 52
 REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	5,259,999,796	-204	-0.00000388
100 %		- 30	5,259,999,895	-105	-0.00000200
100 %		- 20	5,260,000,070	70	0.00000133
100 %		- 10	5,260,000,304	304	0.00000578
100 %		0	5,260,000,087	87	0.00000165
100 %		+ 10	5,260,000,263	263	0.00000500
100 %		+ 20	5,260,000,036	36	0.00000068
100 %		+ 30	5,259,999,704	-296	-0.00000563
100 %		+ 40	5,260,000,154	154	0.00000293
100 %		+ 50	5,259,999,900	-100	-0.00000190
BATT. ENDPOINT	3.40	+ 20	5,259,999,999	-1	-0.00000002

Table 6-24. Frequency Stability Measurements for UNII Band 2A (Ch. 52)

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Frequency Stability

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The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -30°C and +50°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

OPERATING FREQUENCY: 5,500,000,000 Hz
 CHANNEL: 100
 REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	5,500,000,136	136	0.00000247
100 %		- 30	5,500,000,267	267	0.00000485
100 %		- 20	5,500,000,125	125	0.00000227
100 %		- 10	5,500,000,016	16	0.00000029
100 %		0	5,500,000,298	298	0.00000542
100 %		+ 10	5,500,000,028	28	0.00000051
100 %		+ 20	5,500,000,297	297	0.00000540
100 %		+ 30	5,499,999,743	-257	-0.00000467
100 %		+ 40	5,500,000,343	343	0.00000624
100 %		+ 50	5,499,999,952	-48	-0.00000087
BATT. ENDPOINT	3.40	+ 20	5,500,000,001	1	0.00000002

Table 6-25. Frequency Stability Measurements for UNII Band 2C (Ch. 100)

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Frequency Stability

§15.407(g)

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -30°C and +50°C. The temperature was incremented by 10° intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded. Data for the worst case channel is shown below.

OPERATING FREQUENCY: 5,745,000,000 Hz
 CHANNEL: 149
 REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	5,744,999,628	-372	-0.00000648
100 %		- 30	5,744,999,987	-13	-0.00000023
100 %		- 20	5,745,000,184	184	0.00000320
100 %		- 10	5,744,999,854	-146	-0.00000254
100 %		0	5,744,999,816	-184	-0.00000320
100 %		+ 10	5,744,999,647	-353	-0.00000614
100 %		+ 20	5,745,000,000	0	0.00000000
100 %		+ 30	5,745,000,224	224	0.00000390
100 %		+ 40	5,745,000,290	290	0.00000505
100 %		+ 50	5,745,000,058	58	0.00000101
BATT. ENDPOINT	3.40	+ 20	5,744,999,987	-13	-0.00000023

Table 6-26. Frequency Stability Measurements for UNII Band 3 (Ch. 149)

Note:

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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6.7 Radiated Spurious Emission Measurements

\$15.407(b.1)(b.6) \$15.205 \$15.209

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 power control level, as defined in KDB 789033 D02 v01, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW) and 802.11n (40MHz BW)), 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.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 6-27 per Section 15.209.

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

Table 6-27. Radiated Limits

Test Procedures Used

KDB 789033 D02 v01 – 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

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

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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.

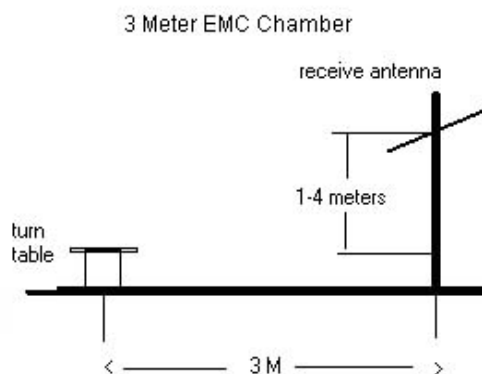


Figure 6-5. Test Instrument & Measurement Setup

Test Notes

1. All radiated spurious emissions levels were measured in a radiated test setup per the guidance of KDB 789033 D02 v01 Section H.
2. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 are below the limit shown in Table 6-27.
3. All spurious emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 6-11. 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.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. This unit was tested with its standard battery.
6. 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

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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.

7. 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.
8. 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.
9. Radiated spurious emissions pre-scan plots are also reported at the beginning of the next section. The plots apply the appropriate system corrections, however, they do not show the fully maximized spectrum. The plots are only included for the purposes of identifying spurious emissions requiring further investigation. Rohde & Schwarz EMC32, Version 9.15.00 automated test software was used to perform the Radiated Spurious Emissions Pre-Scan testing.

Sample Calculations

Determining Spurious Emissions Levels

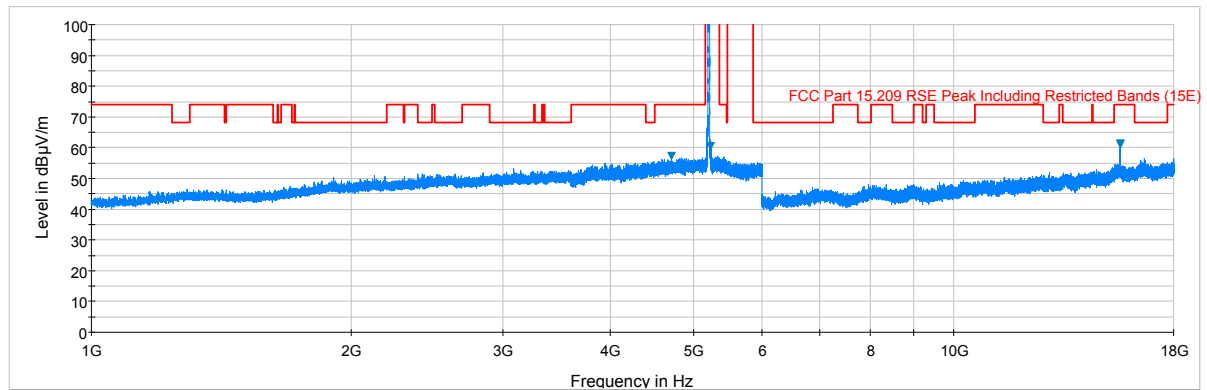
- o Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- o $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]}$
- o $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit }_{[dB\mu V/m]}$

Radiated Band Edge Measurement Offset

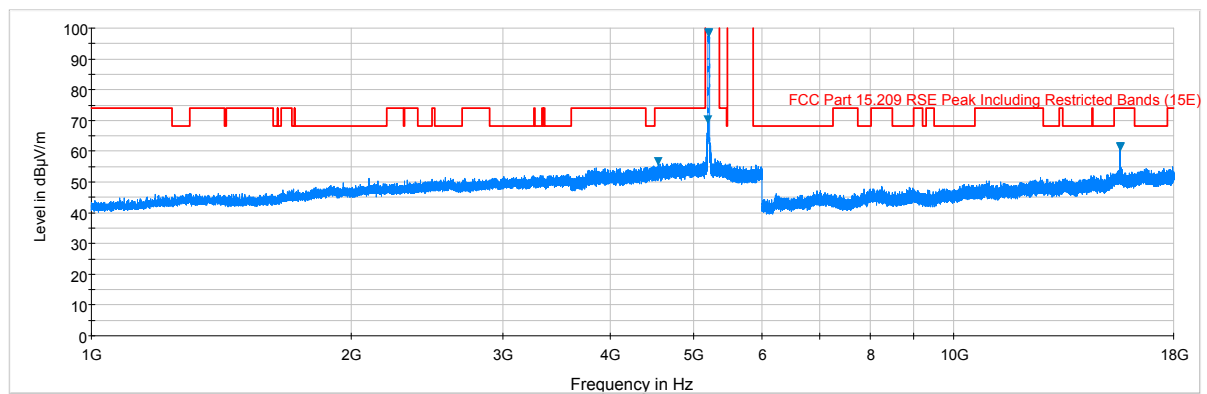
- o The amplitude offset shown in the radiated restricted band edge plots in Section 6.8 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + 10 dB Attenuator) – Preamplifier Gain

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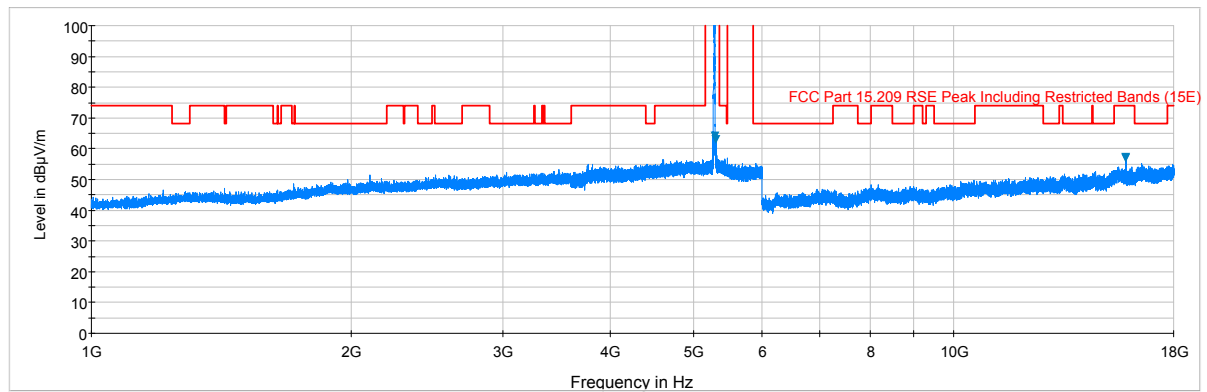
6.7.1 Antenna-1 Radiated Spurious Emission Measurements



Plot 6-153. Radiated Spurious Plot above 1GHz (802.11a – U1, Ant. Pol. H)

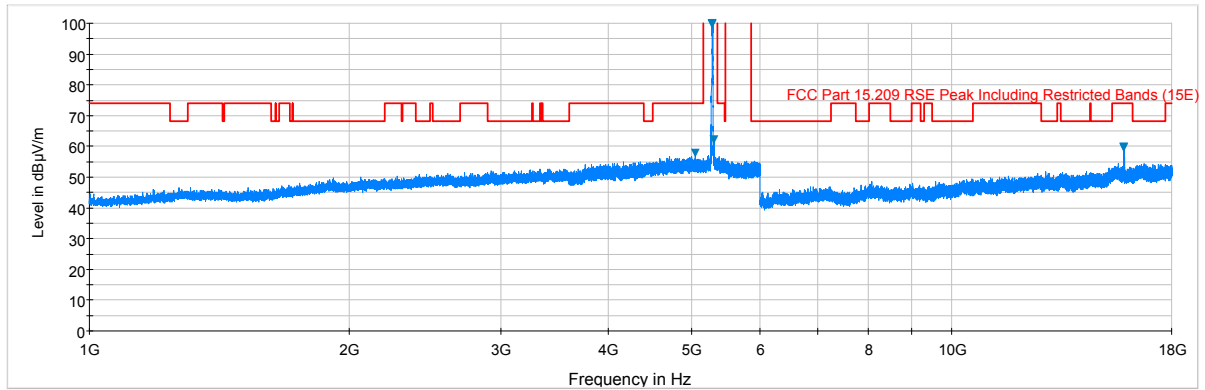


Plot 6-154. Radiated Spurious Plot above 1GHz (802.11a – U1, Ant. Pol. V)

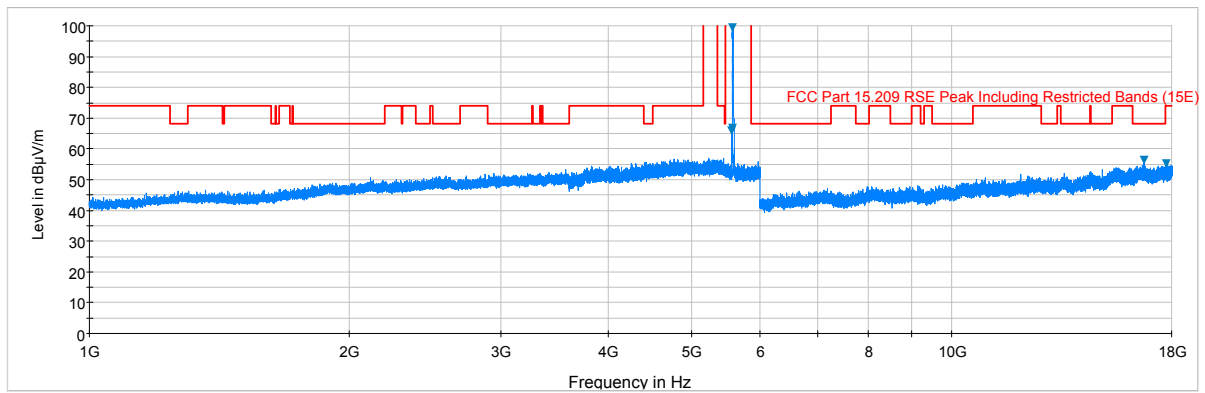


Plot 6-155. Radiated Spurious Plot above 1GHz (802.11a – U2A, Ant. Pol. H)

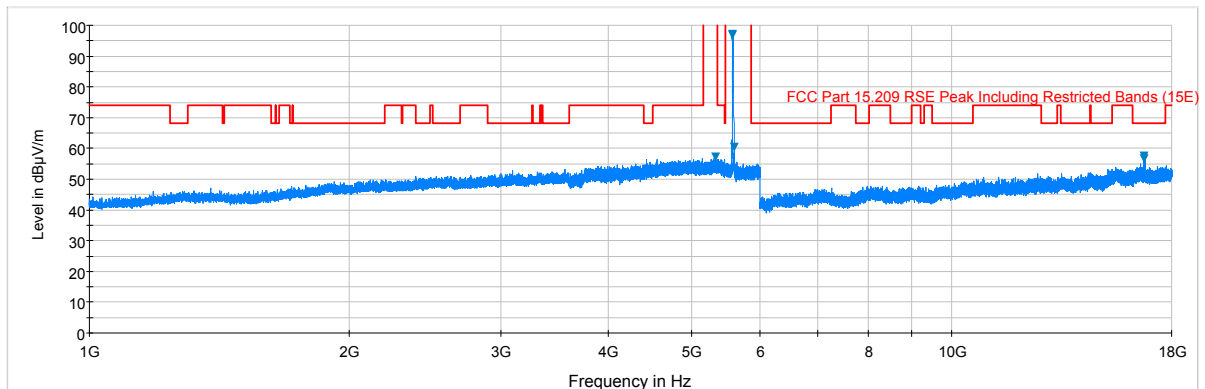
FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-156. Radiated Spurious Plot above 1GHz (802.11a – U2A, Ant. Pol. V)

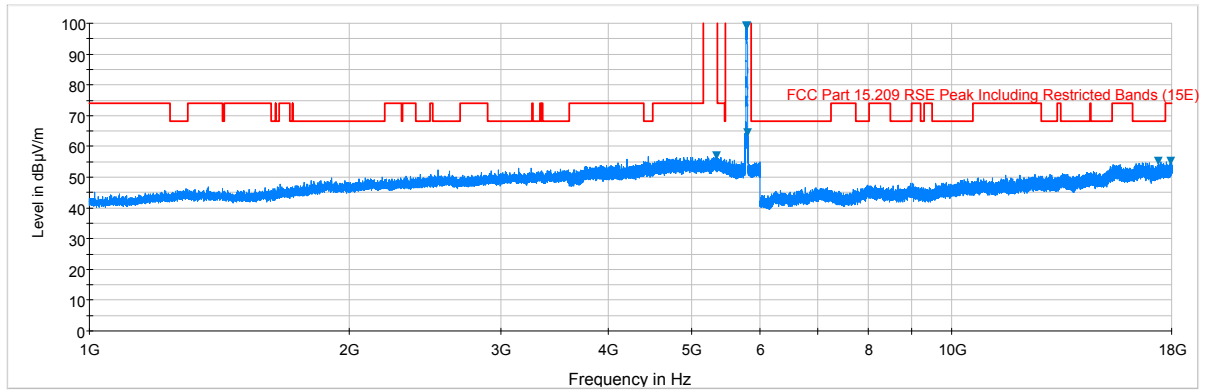


Plot 6-157. Radiated Spurious Plot above 1GHz (802.11a – U2C, Ant. Pol. H)

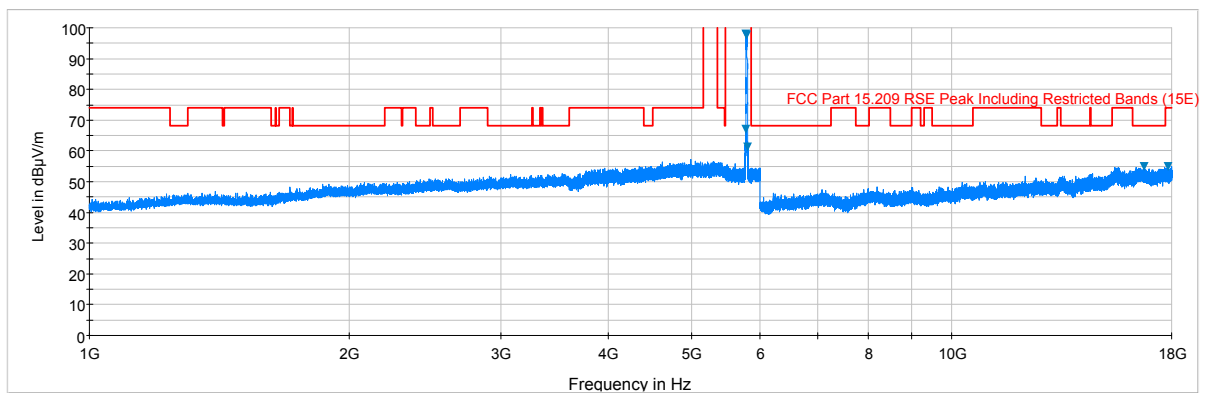


Plot 6-158. Radiated Spurious Plot above 1GHz (802.11a – U2C, Ant. Pol. V)

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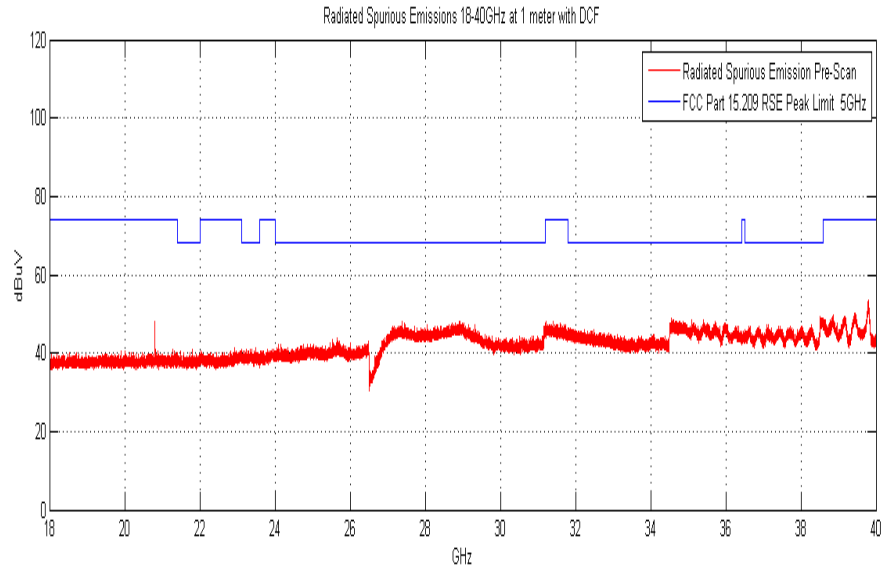
Plot 6-159. Radiated Spurious Plot above 1GHz (802.11a – U3, Ant. Pol. H)



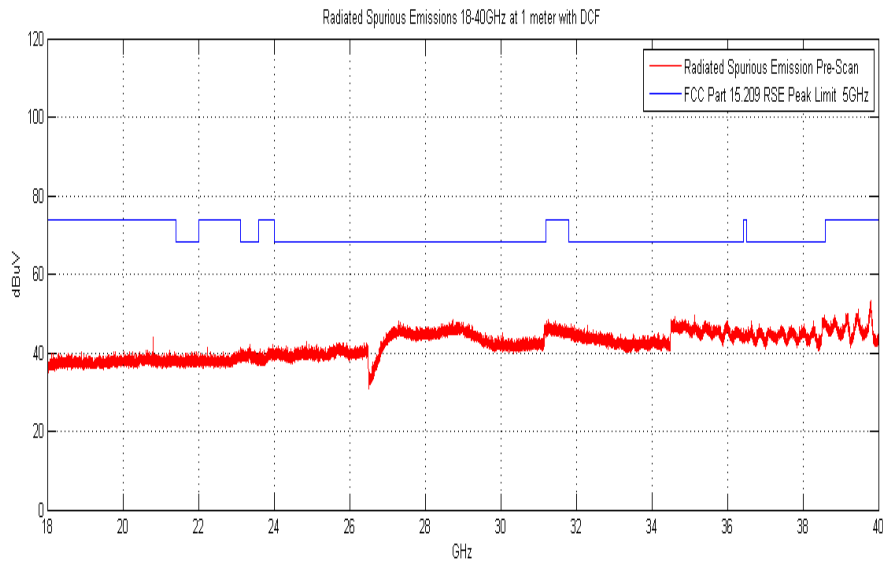
Plot 6-160. Radiated Spurious Plot above 1GHz (802.11a – U3, Ant. Pol. V)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz) §15.209



Plot 6-161. Radiated Spurious Plot above 18GHz (802.11a – Ant. Pol. H)



Plot 6-162. Radiated Spurious Plot above 18GHz (802.11a – Ant. Pol. V)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 115 of 211

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	-103.03	Peak	V	44.78	0.00	48.75	68.20	-19.45
* 15540.00	-113.15	Average	V	49.27	0.00	43.12	53.98	-10.86
* 15540.00	-99.52	Peak	V	49.27	0.00	56.75	73.98	-17.23
* 20720.00	-97.44	Average	V	44.20	-9.54	44.21	53.98	-9.77
* 20720.00	-93.79	Peak	V	44.20	-9.54	47.86	73.98	-26.12
25900.00	-99.27	Peak	V	45.08	-9.54	43.26	68.20	-24.94

Table 6-28. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10400.00	-104.18	Peak	V	44.87	0.00	47.70	68.20	-20.50
* 15600.00	-112.59	Average	V	49.29	0.00	43.70	53.98	-10.28
* 15600.00	-99.50	Peak	V	49.29	0.00	56.80	73.98	-17.18
* 20800.00	-94.37	Average	V	44.20	-9.54	47.29	53.98	-6.69
* 20800.00	-92.10	Peak	V	44.20	-9.54	49.56	73.98	-24.42
26000.00	-99.33	Peak	V	45.11	-9.54	43.24	68.20	-24.96

Table 6-29. Radiated Measurements

FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 116 of 211

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	-103.69	Peak	V	45.08	0.00	48.39	68.20	-19.81
* 15720.00	-112.57	Average	V	49.40	0.00	43.83	53.98	-10.15
* 15720.00	-99.11	Peak	V	49.40	0.00	57.29	73.98	-16.69
* 20960.00	-95.71	Average	V	44.19	-9.54	45.93	53.98	-8.05
* 20960.00	-92.72	Peak	V	44.19	-9.54	48.92	73.98	-25.06
26200.00	-99.68	Peak	V	44.95	-9.54	42.73	68.20	-25.47

Table 6-30. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	-104.29	Peak	H	45.08	0.00	47.79	68.20	-20.41
* 15720.00	-113.81	Average	H	49.40	0.00	42.59	53.98	-11.39
* 15720.00	-100.63	Peak	H	49.40	0.00	55.77	73.98	-18.21
* 20800.00	-105.30	Average	H	44.20	-9.54	36.36	53.98	-17.62
* 20800.00	-99.28	Peak	H	44.20	-9.54	42.38	73.98	-31.60
26000.00	-99.42	Peak	H	45.11	-9.54	43.15	68.20	-25.05

Table 6-31. Radiated Measurements w/ WCP

FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 117 of 211

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	-102.62	Peak	V	45.13	0.00	49.52	68.20	-18.68
* 15780.00	-113.21	Average	V	49.45	0.00	43.24	53.98	-10.74
* 15780.00	-99.78	Peak	V	49.45	0.00	56.67	73.98	-17.31
* 21040.00	-96.15	Average	V	44.18	-9.54	45.48	53.98	-8.49
* 21040.00	-92.90	Peak	V	44.18	-9.54	48.73	73.98	-25.24
26300.00	-98.93	Peak	V	44.95	-9.54	43.47	68.20	-24.73

Table 6-32. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	-103.33	Peak	V	45.14	0.00	48.80	68.20	-19.40
* 15840.00	-110.71	Average	V	49.53	0.00	45.83	53.98	-8.15
* 15840.00	-96.67	Peak	V	49.53	0.00	59.87	73.98	-14.11
* 21120.00	-96.25	Average	V	44.17	-9.54	45.38	53.98	-8.60
* 21120.00	-94.06	Peak	V	44.17	-9.54	47.57	73.98	-26.41
26400.00	-98.58	Peak	V	45.01	-9.54	43.88	68.20	-24.32

Table 6-33. Radiated Measurements

FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 118 of 211

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	-115.04	Average	V	45.17	0.00	37.13	53.98	-16.85
* 10640.00	-102.76	Peak	V	45.17	0.00	49.41	73.98	-24.57
* 15960.00	-111.64	Average	V	49.72	0.00	45.08	53.98	-8.90
* 15960.00	-98.44	Peak	V	49.72	0.00	58.28	73.98	-15.70
* 21280.00	-97.37	Average	V	44.18	-9.54	44.26	53.98	-9.71
* 21280.00	-93.43	Peak	V	44.18	-9.54	48.20	73.98	-25.77
26600.00	-103.01	Peak	V	47.61	-9.54	42.06	68.20	-26.14

Table 6-34. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	-103.49	Peak	H	45.14	0.00	48.64	68.20	-19.56
* 15840.00	-111.77	Average	H	49.53	0.00	44.77	53.98	-9.21
* 15840.00	-98.28	Peak	H	49.53	0.00	58.26	73.98	-15.72
* 21120.00	-98.64	Average	H	44.17	-9.54	42.99	53.98	-10.99
* 21120.00	-94.42	Peak	H	44.17	-9.54	47.21	73.98	-26.77
26400.00	-99.37	Peak	H	45.01	-9.54	43.09	68.20	-25.11

Table 6-35. Radiated Measurements w/ WCP

FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 119 of 211

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	-115.23	Average	V	45.24	0.00	37.01	53.98	-16.97
* 11000.00	-102.74	Peak	V	45.24	0.00	49.50	73.98	-24.48
16500.00	-99.58	Peak	V	50.35	0.00	57.77	68.20	-10.43
22000.00	-90.08	Peak	V	44.47	-9.54	51.85	68.20	-16.35
27500.00	-103.23	Peak	V	47.92	-9.54	42.15	68.20	-26.05

Table 6-36. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11160.00	-114.30	Average	V	45.22	0.00	37.93	53.98	-16.05
* 11160.00	-102.74	Peak	V	45.22	0.00	49.49	73.98	-24.49
16740.00	-101.75	Peak	V	50.47	0.00	55.73	68.20	-12.47
* 22320.00	-98.59	Average	V	44.59	-9.54	43.46	53.98	-10.52
* 22320.00	-89.67	Peak	V	44.59	-9.54	52.38	73.98	-21.60
27900.00	-99.78	Peak	V	48.09	-9.54	45.77	68.20	-22.43

Table 6-37. Radiated Measurements

FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 120 of 211

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	-115.41	Average	H	45.24	0.00	36.83	53.98	-17.15
* 11000.00	-102.66	Peak	H	45.24	0.00	49.58	73.98	-24.40
16500.00	-99.98	Peak	H	50.35	0.00	57.37	68.20	-10.83
22000.00	-90.72	Peak	H	44.47	-9.54	51.21	68.20	-16.99
27500.00	-103.82	Peak	H	47.92	-9.54	41.56	68.20	-26.64

Table 6-38. Radiated Measurements w/ WCP

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11440.00	-109.66	Average	V	45.37	0.00	42.71	53.98	-11.27
11440.00	-97.14	Peak	V	45.37	0.00	55.23	73.98	-18.75
17160.00	-101.45	Peak	V	50.51	0.00	56.05	68.20	-12.15
22880.00	-99.45	Average	V	44.62	-9.54	42.63	53.98	-11.35
22880.00	-88.89	Peak	V	44.62	-9.54	53.19	73.98	-20.79
28600.00	-100.04	Peak	V	48.35	-9.54	45.77	68.20	-22.43

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	-109.90	Average	V	45.46	0.00	42.56	53.98	-11.42
* 11490.00	-96.83	Peak	V	45.46	0.00	55.63	73.98	-18.35
17235.00	-98.44	Peak	V	50.68	0.00	59.24	68.20	-8.96
* 22980.00	-106.72	Average	V	44.64	-9.54	35.37	53.98	-18.61
* 22980.00	-95.20	Peak	V	44.64	-9.54	46.89	73.98	-27.09
28725.00	-130.52	Peak	V	48.26	-9.54	15.20	68.20	-53.00

Table 6-39. Radiated Measurements

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	-107.16	Average	V	45.56	0.00	45.40	53.98	-8.58
* 11570.00	-94.69	Peak	V	45.56	0.00	57.87	73.98	-16.11
17355.00	-94.79	Peak	V	51.04	0.00	63.24	68.20	-4.96
23140.00	-92.93	Peak	V	44.73	-9.54	49.26	68.20	-18.94
28925.00	-129.07	Peak	V	48.28	-9.54	16.66	68.20	-51.54

Table 6-40. Radiated Measurements

FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 122 of 211

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	-110.39	Average	V	45.68	0.00	42.29	53.98	-11.68
* 11650.00	-98.27	Peak	V	45.68	0.00	54.41	73.98	-19.56
17475.00	-102.26	Peak	V	51.35	0.00	56.10	68.20	-12.10
23300.00	-93.68	Peak	V	44.73	-9.54	48.51	68.20	-19.69
29125.00	-130.48	Peak	V	48.24	-9.54	15.22	68.20	-52.98

Table 6-41. Radiated Measurements

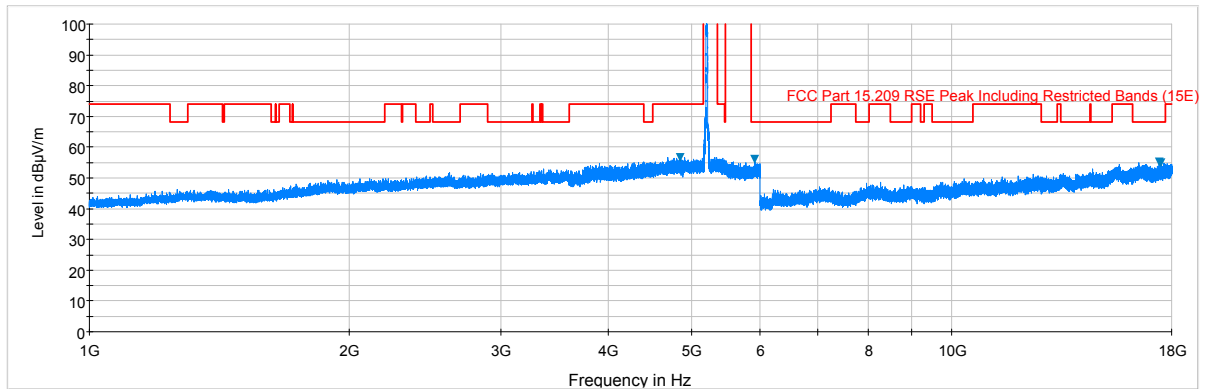
Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	-108.23	Average	H	45.56	0.00	44.33	53.98	-9.65
* 11570.00	-95.40	Peak	H	45.56	0.00	57.16	73.98	-16.82
17355.00	-97.12	Peak	H	51.04	0.00	60.91	68.20	-7.29
23140.00	-93.70	Peak	H	44.73	-9.54	48.49	68.20	-19.71
28925.00	-128.82	Peak	H	48.28	-9.54	16.91	68.20	-51.29

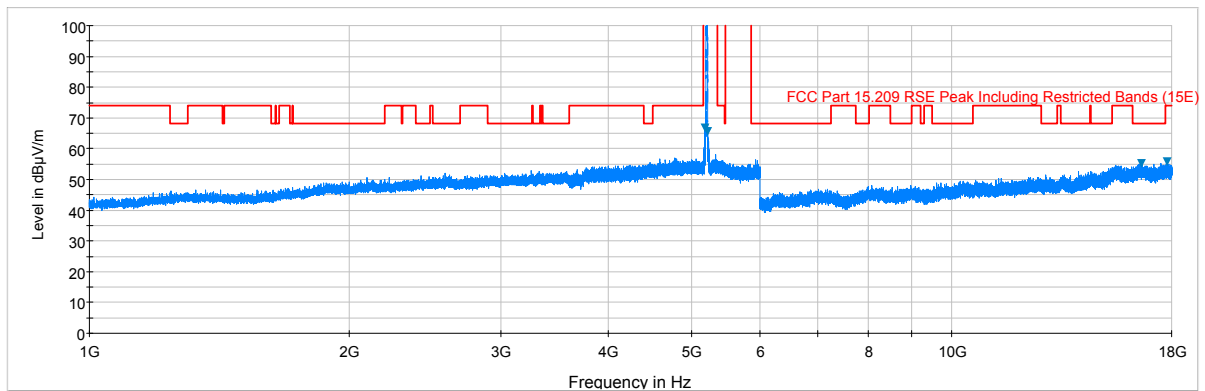
Table 6-42. Radiated Measurements w/ WCP

FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 123 of 211

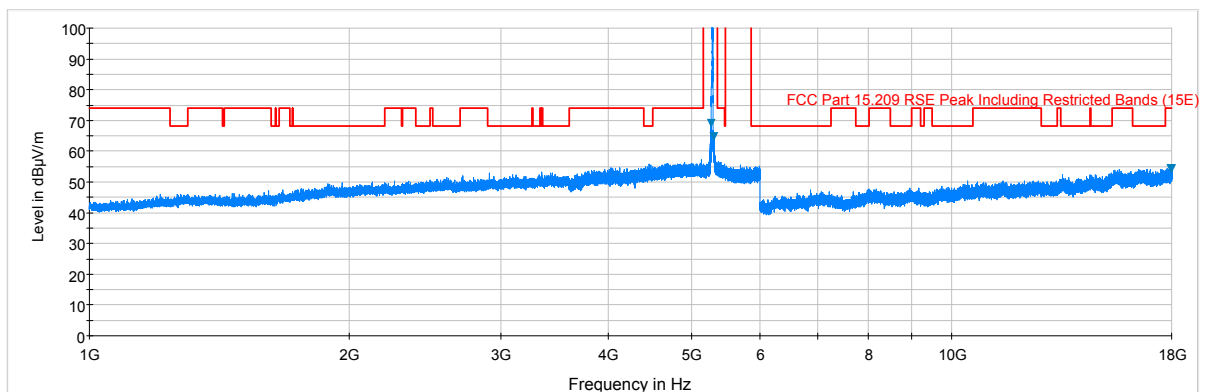
6.7.2 Antenna-2 Radiated Spurious Emission Measurements



Plot 6-163. Radiated Spurious Plot above 1GHz (802.11a – U1, Ant. Pol. H)

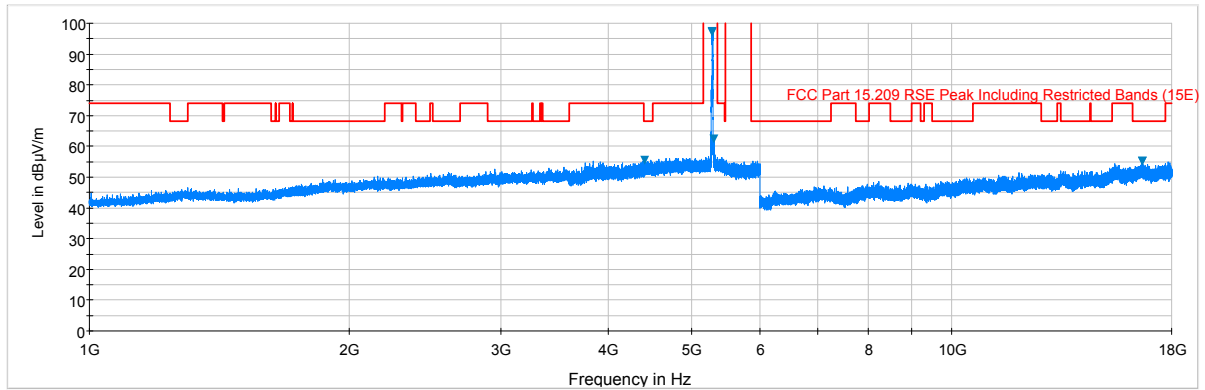


Plot 6-164. Radiated Spurious Plot above 1GHz (802.11a – U1, Ant. Pol. V)

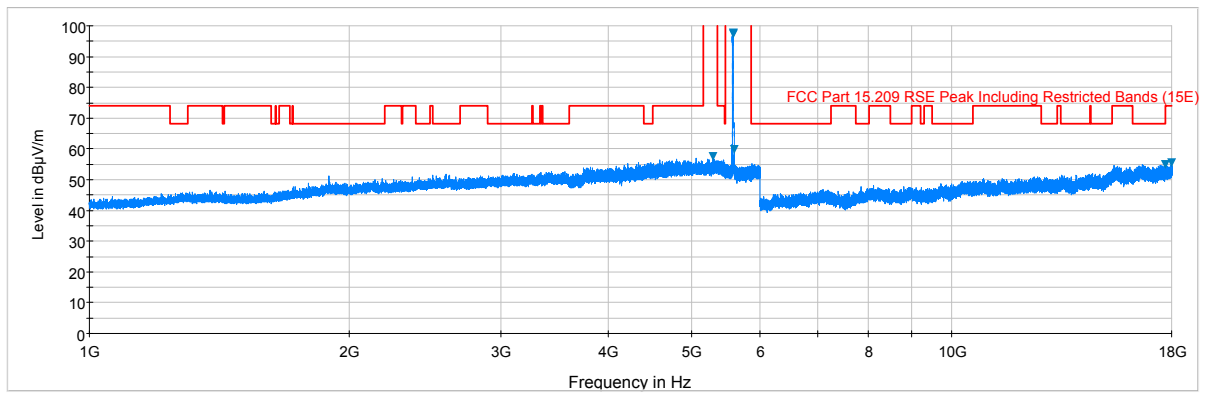


Plot 6-165. Radiated Spurious Plot above 1GHz (802.11a – U2A, Ant. Pol. H)

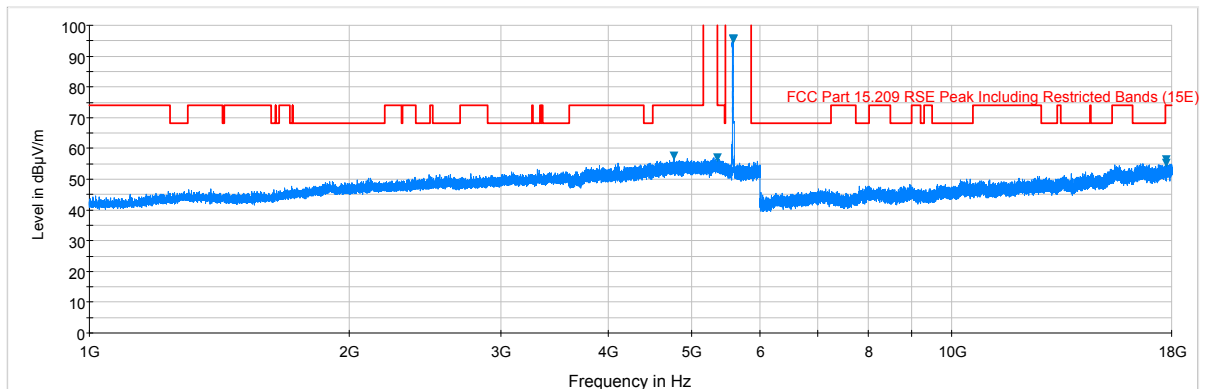
FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 124 of 211



Plot 6-166. Radiated Spurious Plot above 1GHz (802.11a – U2A, Ant. Pol. V)

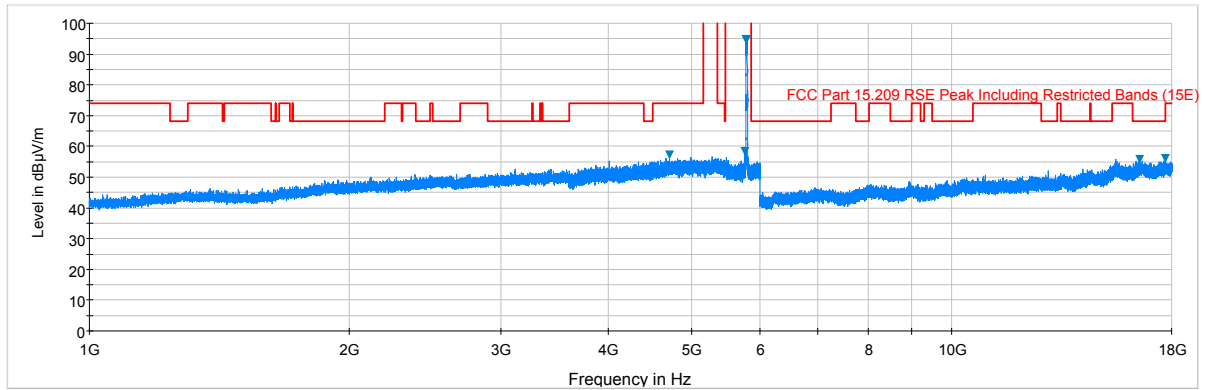


Plot 6-167. Radiated Spurious Plot above 1GHz (802.11a – U2C, Ant. Pol. H)

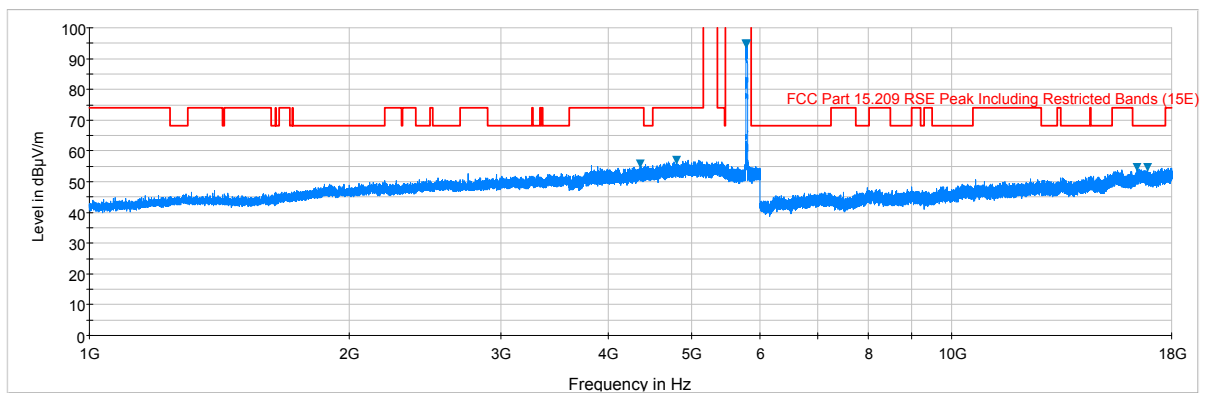


Plot 6-168. Radiated Spurious Plot above 1GHz (802.11a – U2C, Ant. Pol. V)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 125 of 211



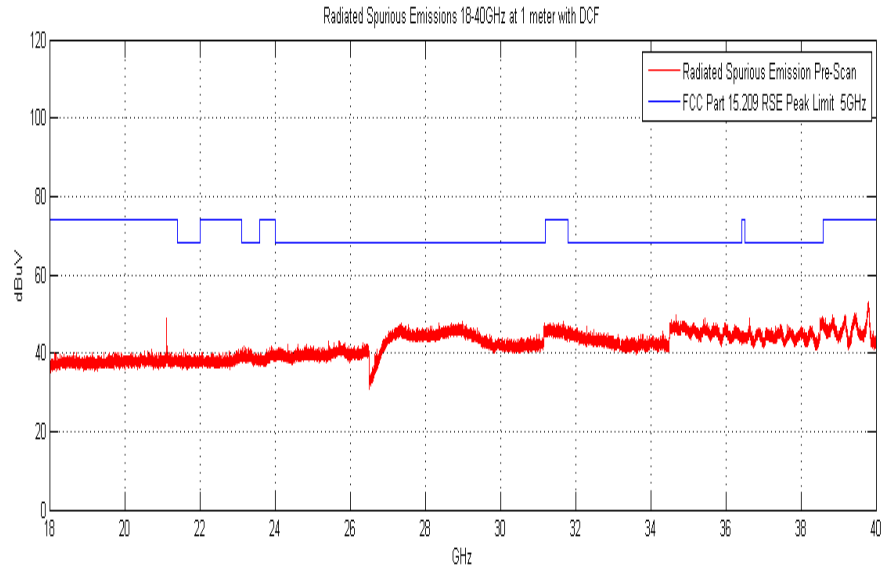
Plot 6-169. Radiated Spurious Plot above 1GHz (802.11a – U3, Ant. Pol. H)



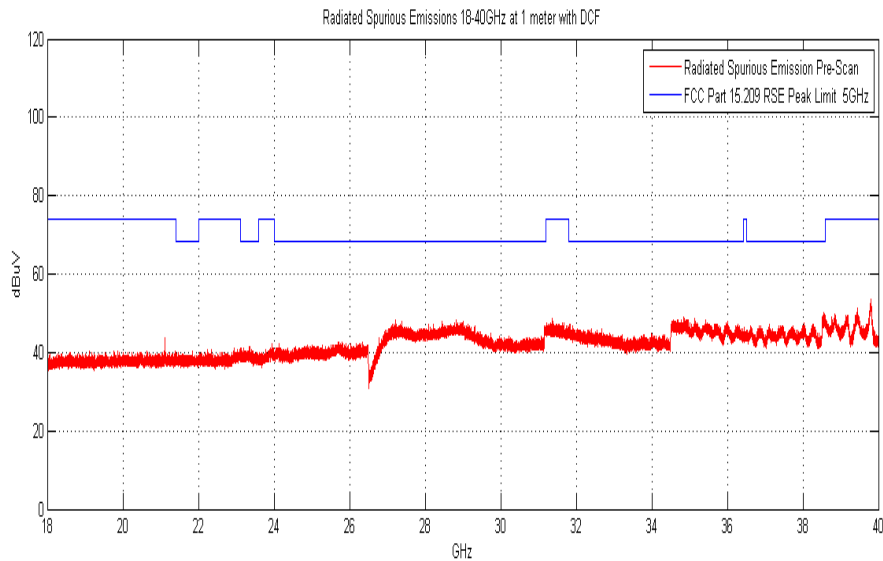
Plot 6-170. Radiated Spurious Plot above 1GHz (802.11a – U3, Ant. Pol. V)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 126 of 211

Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz) §15.209



Plot 6-171. Radiated Spurious Plot above 18GHz (802.11a – Ant. Pol. H)



Plot 6-172. Radiated Spurious Plot above 18GHz (802.11a – Ant. Pol. V)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 127 of 211

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	-103.80	Peak	V	44.78	0.00	47.98	68.20	-20.22
* 15540.00	-117.39	Average	V	49.27	0.00	38.88	53.98	-15.10
* 15540.00	-105.48	Peak	V	49.27	0.00	50.79	73.98	-23.19
* 20720.00	-107.01	Average	V	44.20	-9.54	34.64	53.98	-19.34
* 20720.00	-98.84	Peak	V	44.20	-9.54	42.81	73.98	-31.17
25900.00	-101.09	Peak	V	45.08	-9.54	41.44	68.20	-26.76

Table 6-43. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10400.00	-104.61	Peak	V	44.87	0.00	47.27	68.20	-20.93
* 15600.00	-116.30	Average	V	49.29	0.00	39.99	53.98	-13.99
* 15600.00	-104.07	Peak	V	49.29	0.00	52.22	73.98	-21.76
* 20800.00	-102.57	Average	V	44.20	-9.54	39.09	53.98	-14.89
* 20800.00	-97.08	Peak	V	44.20	-9.54	44.58	73.98	-29.40
26000.00	-99.71	Peak	V	45.11	-9.54	42.86	68.20	-25.34

Table 6-44. Radiated Measurements

FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 128 of 211

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	-104.73	Peak	V	45.08	0.00	47.35	68.20	-20.85
* 15720.00	-115.93	Average	V	49.40	0.00	40.47	53.98	-13.51
* 15720.00	-103.35	Peak	V	49.40	0.00	53.05	73.98	-20.93
* 20960.00	-102.55	Average	V	44.19	-9.54	39.09	53.98	-14.89
* 20960.00	-97.25	Peak	V	44.19	-9.54	44.39	73.98	-29.59
26200.00	-98.93	Peak	V	44.95	-9.54	43.48	68.20	-24.72

Table 6-45. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	-104.87	Peak	H	45.08	0.00	47.21	68.20	-20.99
* 15720.00	-115.81	Average	H	49.40	0.00	40.59	53.98	-13.39
* 15720.00	-103.52	Peak	H	49.40	0.00	52.88	73.98	-21.10
* 20960.00	-103.82	Average	H	44.19	-9.54	37.82	53.98	-16.16
* 20960.00	-99.37	Peak	H	44.19	-9.54	42.27	73.98	-31.71
26200.00	-99.11	Peak	H	44.95	-9.54	43.30	68.20	-24.90

Table 6-46. Radiated Measurements w/ WCP

FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 129 of 211

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	-104.96	Peak	V	45.13	0.00	47.18	68.20	-21.02
* 15780.00	-116.37	Average	V	49.45	0.00	40.08	53.98	-13.90
* 15780.00	-104.62	Peak	V	49.45	0.00	51.83	73.98	-22.15
* 21040.00	-101.74	Average	V	44.18	-9.54	39.89	53.98	-14.08
* 21040.00	-95.98	Peak	V	44.18	-9.54	45.65	73.98	-28.32
26300.00	-98.30	Peak	V	44.95	-9.54	44.10	68.20	-24.10

Table 6-47. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	-104.49	Peak	V	45.14	0.00	47.64	68.20	-20.56
* 15840.00	-116.48	Average	V	49.53	0.00	40.06	53.98	-13.92
* 15840.00	-104.76	Peak	V	49.53	0.00	51.78	73.98	-22.20
* 21120.00	-101.33	Average	V	44.17	-9.54	40.30	53.98	-13.68
* 21120.00	-96.07	Peak	V	44.17	-9.54	45.56	73.98	-28.42
26400.00	-97.31	Peak	V	45.01	-9.54	45.15	68.20	-23.05

Table 6-48. Radiated Measurements

FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 130 of 211

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	-115.91	Average	V	45.17	0.00	36.26	53.98	-17.72
* 10640.00	-103.39	Peak	V	45.17	0.00	48.78	73.98	-25.20
* 15960.00	-116.56	Average	V	49.72	0.00	40.16	53.98	-13.82
* 15960.00	-104.63	Peak	V	49.72	0.00	52.09	73.98	-21.89
* 21280.00	-102.67	Average	V	44.18	-9.54	38.96	53.98	-15.01
* 21280.00	-97.51	Peak	V	44.18	-9.54	44.12	73.98	-29.85
26600.00	-104.15	Peak	V	47.61	-9.54	40.92	68.20	-27.28

Table 6-49. Radiated Measurements

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	-116.11	Average	H	45.17	0.00	36.06	53.98	-17.92
* 10640.00	-103.55	Peak	H	45.17	0.00	48.62	73.98	-25.36
* 15960.00	-116.52	Average	H	49.72	0.00	40.20	53.98	-13.78
* 15960.00	-104.77	Peak	H	49.72	0.00	51.95	73.98	-22.03
* 21280.00	-103.36	Average	H	44.18	-9.54	38.27	53.98	-15.70
* 21280.00	-98.83	Peak	H	44.18	-9.54	42.80	73.98	-31.17
26600.00	-105.84	Peak	H	47.61	-9.54	39.23	68.20	-28.97

Table 6-50. Radiated Measurements w/ WCP

FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 131 of 211

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5500MHz
Channel: 100

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	-115.56	Average	V	45.24	0.00	36.68	53.98	-17.30
* 11000.00	-103.57	Peak	V	45.24	0.00	48.67	73.98	-25.31
16500.00	-105.20	Peak	V	50.35	0.00	52.15	68.20	-16.05
22000.00	-97.55	Peak	V	44.47	-9.54	44.38	68.20	-23.82
27500.00	-129.42	Peak	V	47.92	-9.54	15.96	68.20	-52.24

Table 6-51. Radiated Measurements

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 & 3 Meters
Operating Frequency: 5580MHz
Channel: 116

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11160.00	-115.55	Average	V	45.22	0.00	36.68	53.98	-17.30
* 11160.00	-103.36	Peak	V	45.22	0.00	48.87	73.98	-25.11
16740.00	-104.31	Peak	V	50.47	0.00	53.17	68.20	-15.03
* 22320.00	-104.48	Average	V	44.59	-9.54	37.57	53.98	-16.41
* 22320.00	-97.92	Peak	V	44.59	-9.54	44.13	73.98	-29.85
27900.00	-104.39	Peak	V	48.09	-9.54	41.16	68.20	-27.04

Table 6-52. Radiated Measurements

FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 132 of 211

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5580MHz
 Channel: 116

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11160.00	-115.49	Average	H	45.22	0.00	36.74	53.98	-17.24
* 11160.00	-103.25	Peak	H	45.22	0.00	48.98	73.98	-25.00
16740.00	-104.27	Peak	H	50.47	0.00	53.21	68.20	-14.99
* 22320.00	-104.78	Average	H	44.59	-9.54	37.27	53.98	-16.71
* 22320.00	-98.91	Peak	H	44.59	-9.54	43.14	73.98	-30.84
27900.00	-105.69	Peak	H	48.09	-9.54	39.86	68.20	-28.34

Table 6-53. Radiated Measurements w/ WCP

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11440.00	-115.99	Average	V	45.37	0.00	36.38	53.98	-17.60
11440.00	-103.91	Peak	V	45.37	0.00	48.46	73.98	-25.52
17160.00	-105.41	Peak	V	50.51	0.00	52.09	68.20	-16.11
22880.00	-104.72	Average	V	44.62	-9.54	37.36	53.98	-16.62
22880.00	-99.13	Peak	V	44.62	-9.54	42.95	73.98	-31.03
28600.00	-105.81	Peak	V	48.35	-9.54	40.00	68.20	-28.20

Worst Case Mode: 802.11a
 Worst Case Transfer Rate: 6 Mbps
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	-115.52	Average	V	45.46	0.00	36.94	53.98	-17.04
* 11490.00	-103.19	Peak	V	45.46	0.00	49.27	73.98	-24.71
17235.00	-104.73	Peak	V	50.68	0.00	52.95	68.20	-15.25
* 22980.00	-104.36	Average	V	44.64	-9.54	37.73	53.98	-16.25
* 22980.00	-92.65	Peak	V	44.64	-9.54	49.44	73.98	-24.54
28725.00	-130.05	Peak	V	48.26	-9.54	15.67	68.20	-52.53

Table 6-54. Radiated Measurements

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	-114.81	Average	V	45.56	0.00	37.75	53.98	-16.23
* 11570.00	-102.18	Peak	V	45.56	0.00	50.38	73.98	-23.60
17355.00	-103.95	Peak	V	51.04	0.00	54.08	68.20	-14.12
23140.00	-95.73	Peak	V	44.73	-9.54	46.46	68.20	-21.74
28925.00	-130.26	Peak	V	48.28	-9.54	15.47	68.20	-52.73

Table 6-55. Radiated Measurements

FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 134 of 211

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	-115.31	Average	V	45.68	0.00	37.37	53.98	-16.60
* 11650.00	-102.95	Peak	V	45.68	0.00	49.73	73.98	-24.24
17475.00	-105.30	Peak	V	51.35	0.00	53.06	68.20	-15.14
23300.00	-93.44	Peak	V	44.76	-9.54	48.78	68.20	-19.42
29125.00	-130.03	Peak	V	48.24	-9.54	15.67	68.20	-52.53

Table 6-56. Radiated Measurements

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	-114.92	Average	H	45.56	0.00	37.64	53.98	-16.34
* 11570.00	-102.13	Peak	H	45.56	0.00	50.43	73.98	-23.55
17355.00	-103.95	Peak	H	51.04	0.00	54.08	68.20	-14.12
23140.00	-95.61	Peak	H	44.73	-9.54	46.58	68.20	-21.62
28925.00	-130.51	Peak	H	48.28	-9.54	15.22	68.20	-52.98

Table 6-57. Radiated Measurements w/ WCP

FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 135 of 211

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

§15.407(b.1)(b.2) §15.205 §15.209

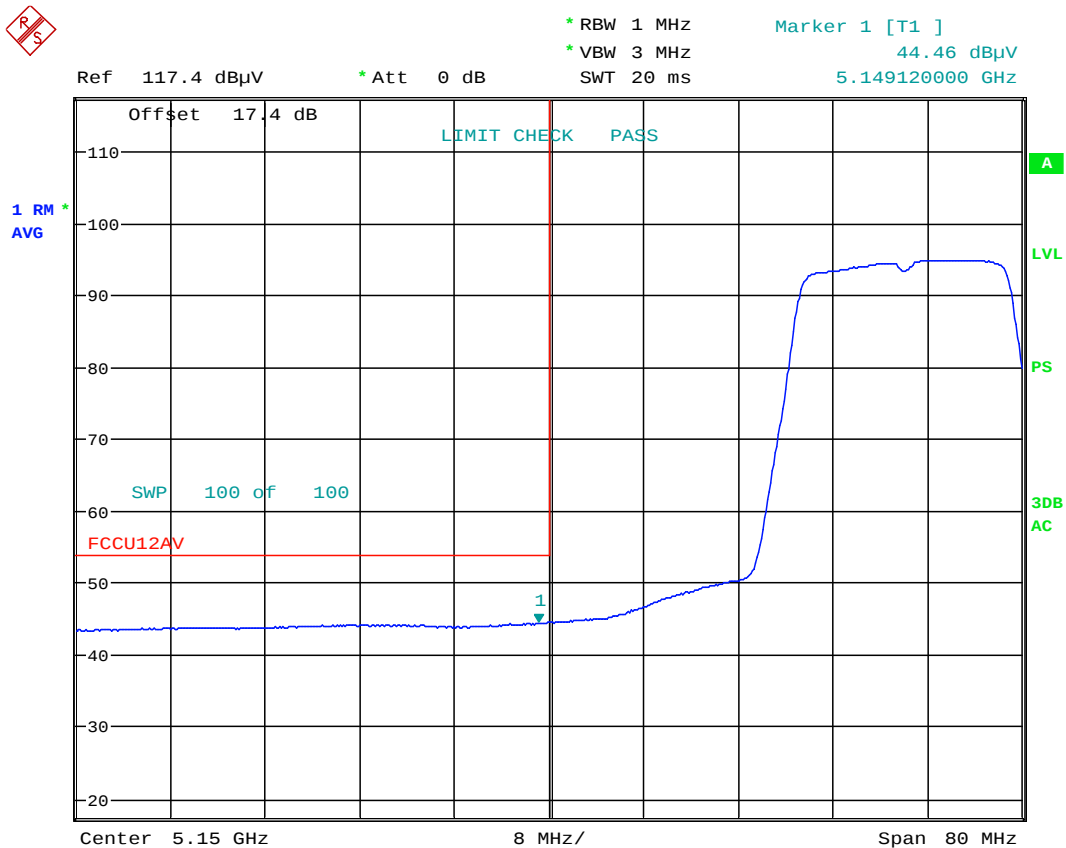
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36

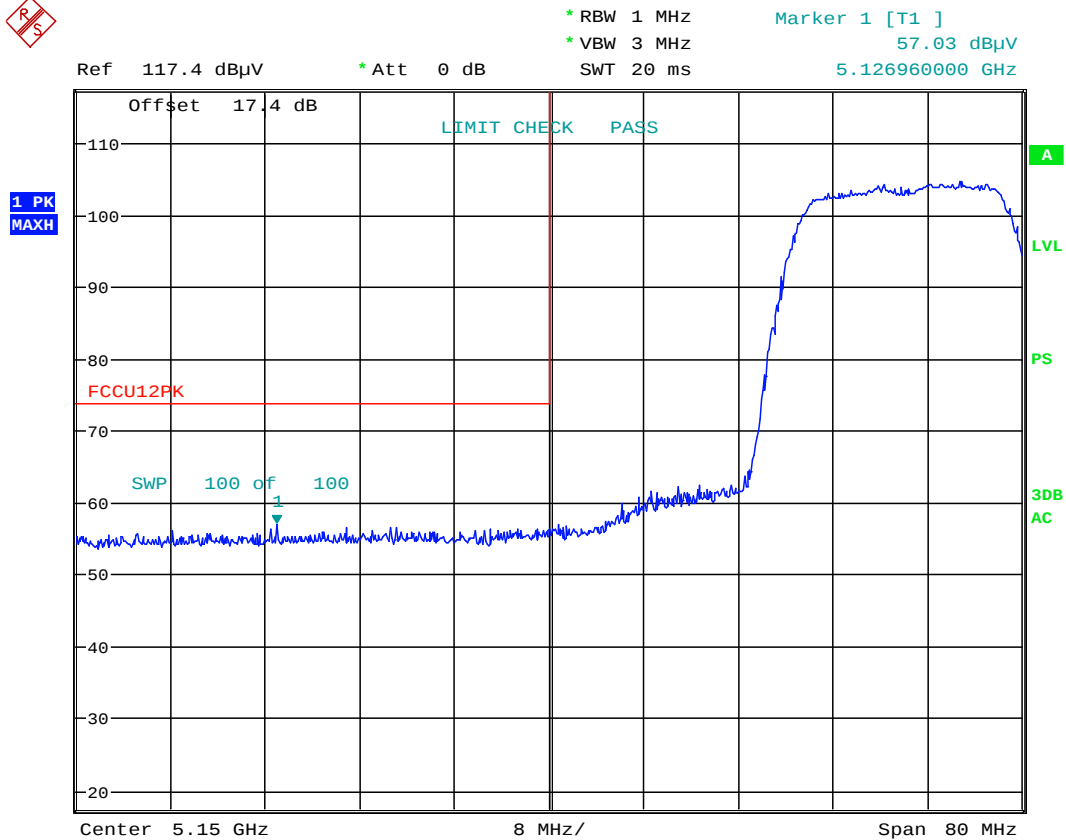


Date: 22.JAN.2015 12:13:03

Plot 6-173. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 136 of 211

Antenna-1 Radiated Band Edge Measurements (20MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 22.JAN.2015 12:14:46

Plot 6-174. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 137 of 211

Antenna-1 Radiated Band Edge Measurements (20MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

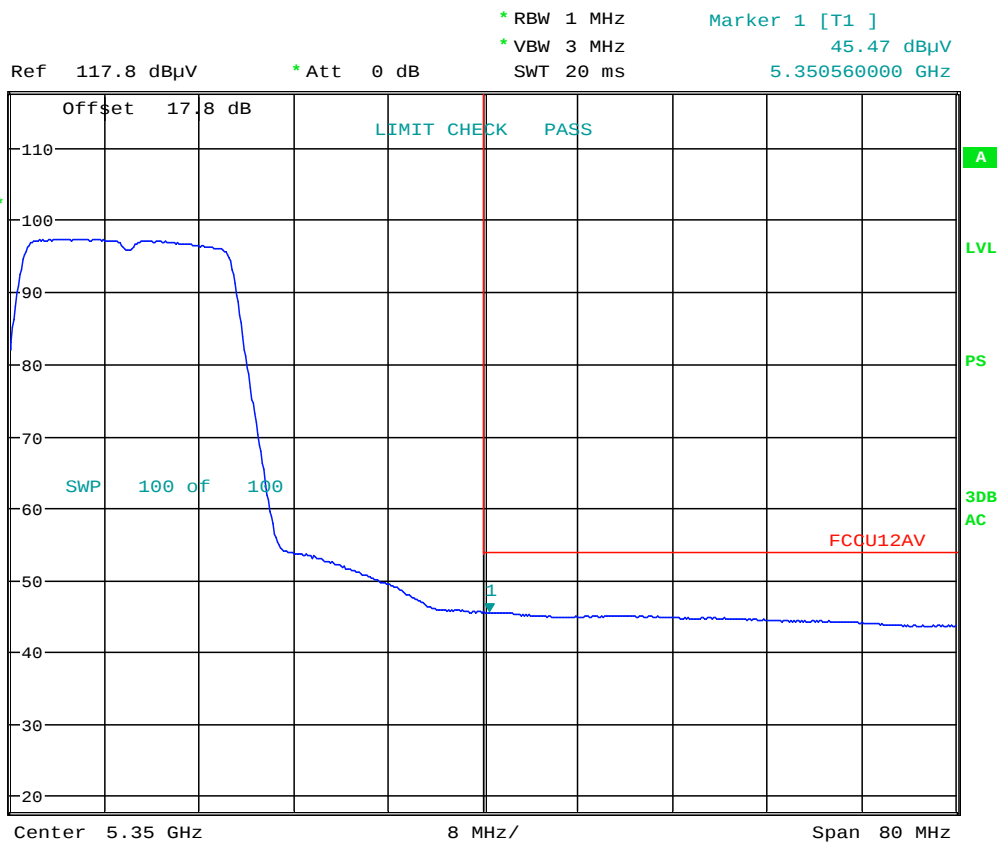
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64

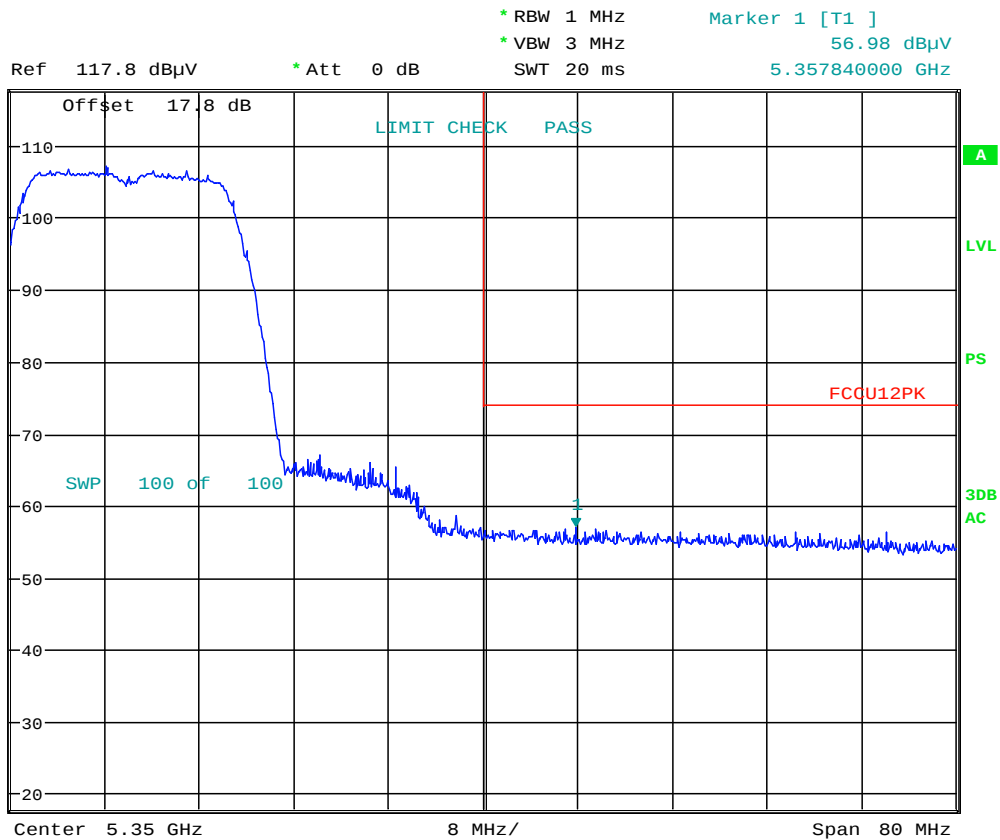


Date: 22.JAN.2015 12:55:39

Plot 6-175. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 138 of 211

Antenna-1 Radiated Band Edge Measurements (20MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 22.JAN.2015 12:56:04

Plot 6-176. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 139 of 211

Antenna-1 Radiated Band Edge Measurements (20MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

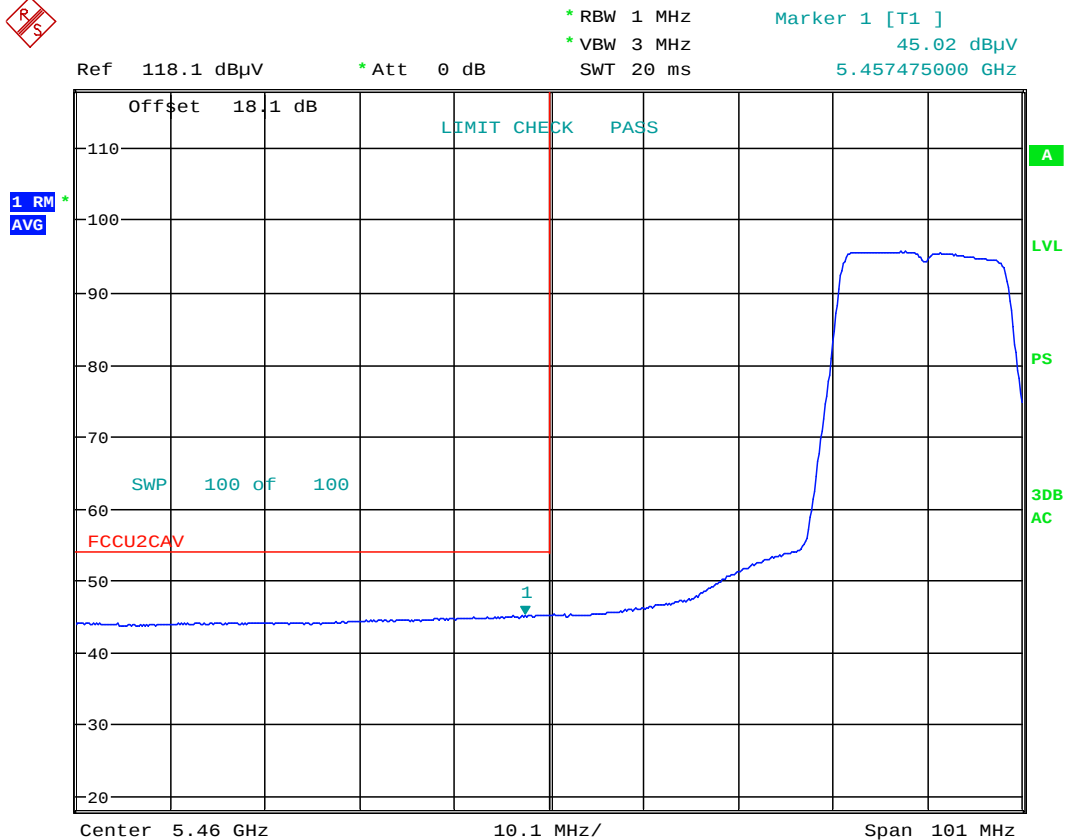
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

Channel: 100

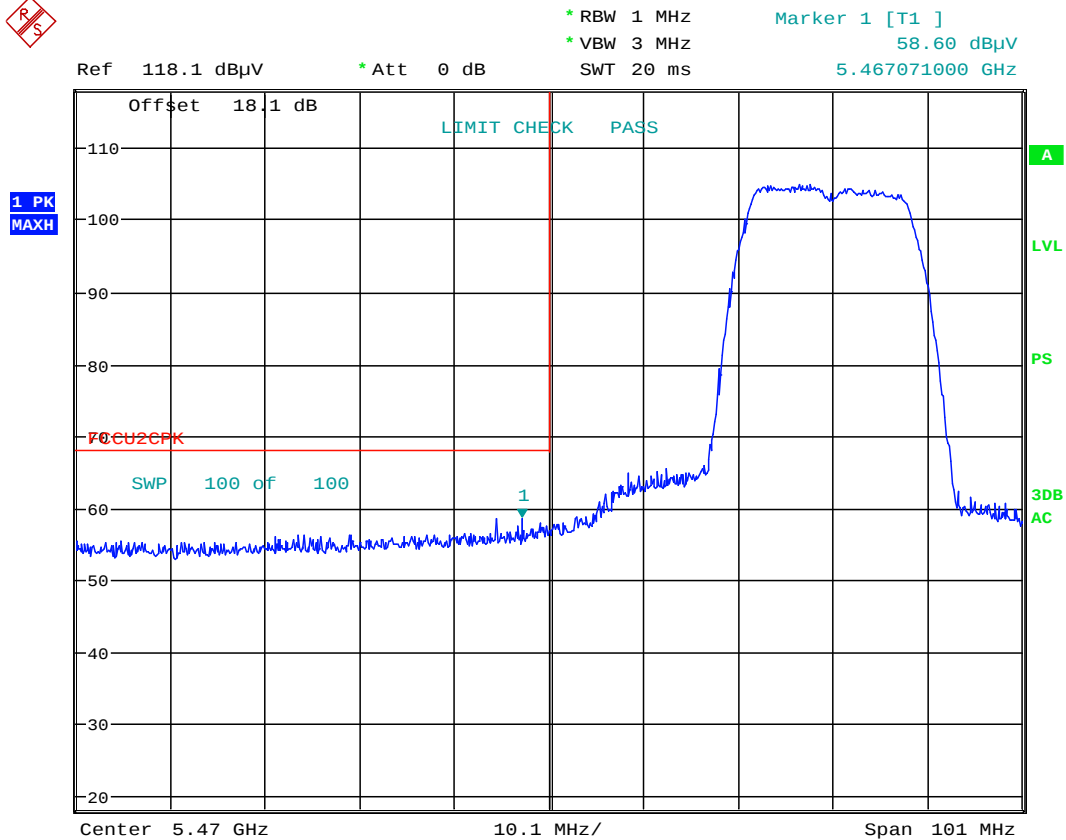


Date: 22.JAN.2015 13:10:19

Plot 6-177. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 140 of 211

Antenna-1 Radiated Band Edge Measurements (20MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 22.JAN.2015 13:10:56

Plot 6-178. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 141 of 211

6.7.4 Antenna-1 Radiated Band Edge Measurements (40MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

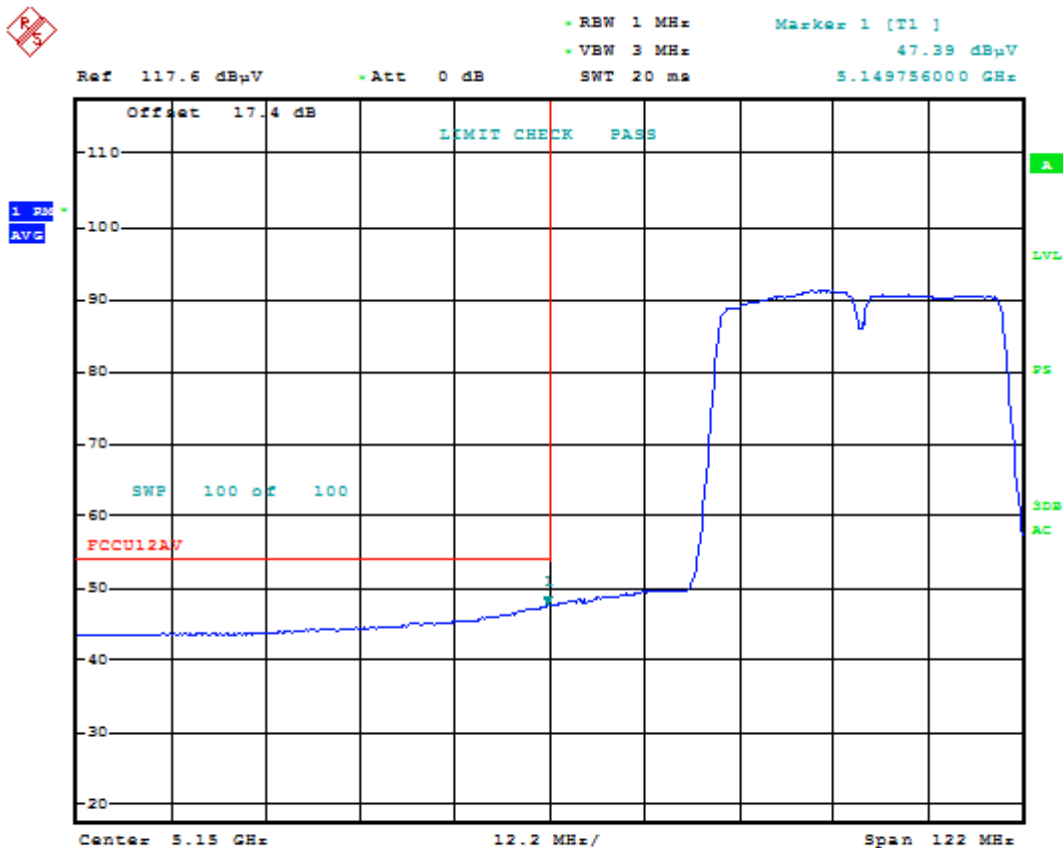
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38

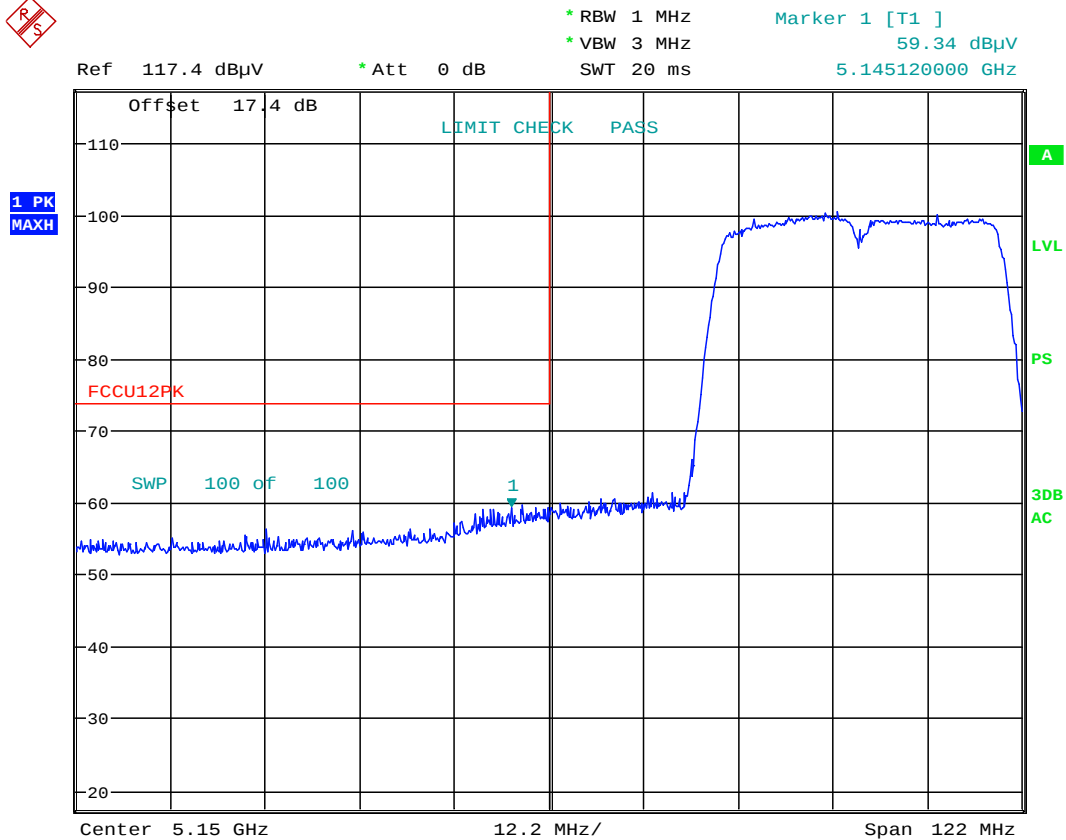


Date: 22.JAN.2015 12:25:09

Plot 6-180. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 143 of 211

Antenna-1 Radiated Band Edge Measurements (40MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 22.JAN.2015 12:25:46

Plot 6-181. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 144 of 211

Antenna-1 Radiated Band Edge Measurements (40MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62

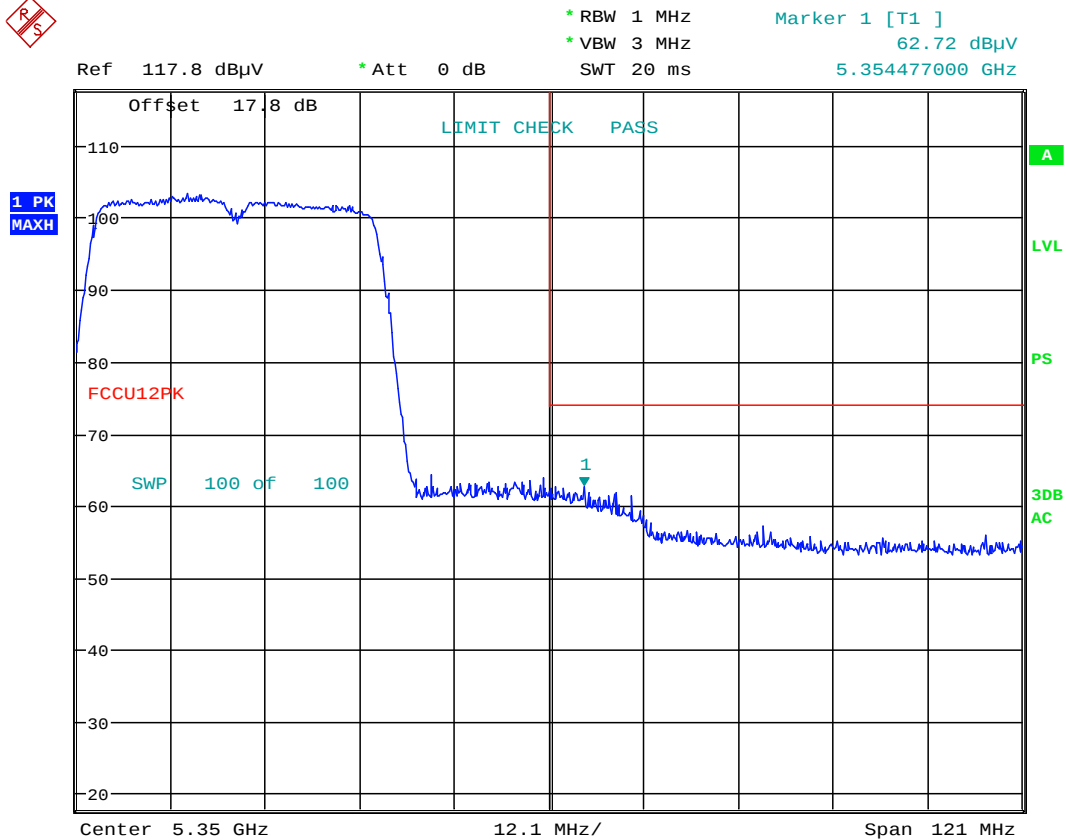


Date: 22.JAN.2015 12:58:27

Plot 6-182. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 145 of 211

Antenna-1 Radiated Band Edge Measurements (40MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 22.JAN.2015 12:59:39

Plot 6-183. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 146 of 211

Antenna-1 Radiated Band Edge Measurements (40MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102

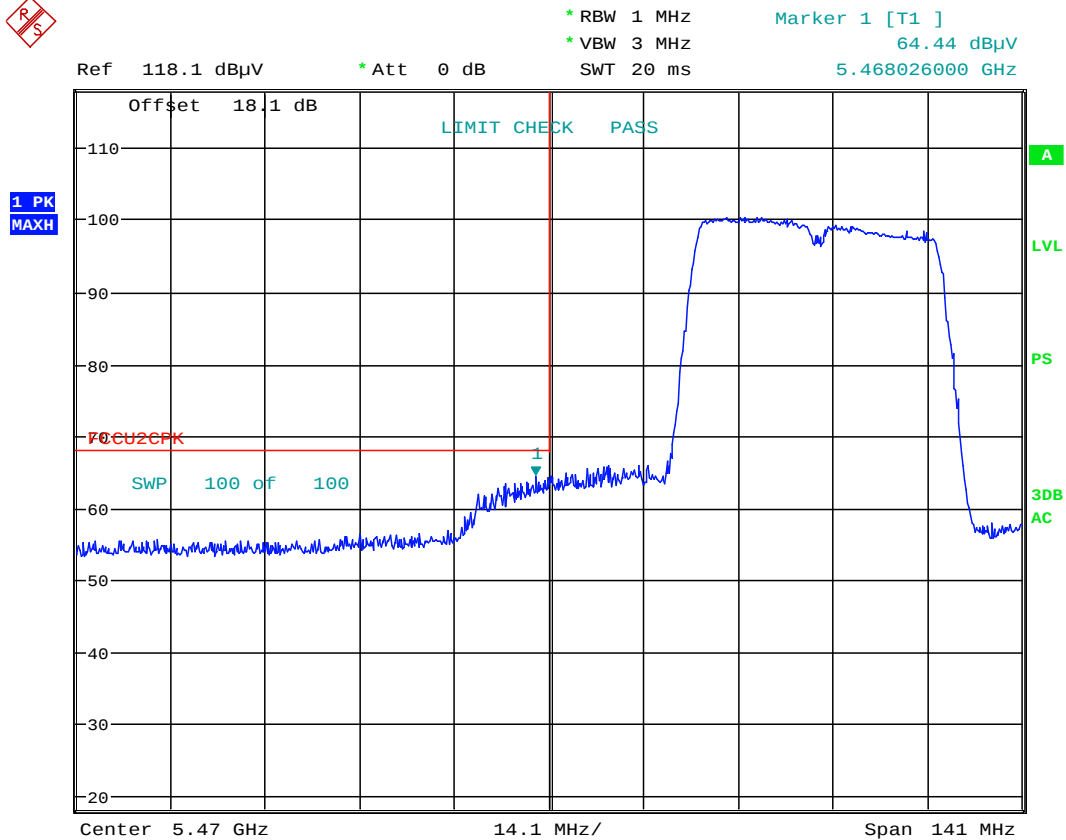


Date: 22.JAN.2015 13:13:03

Plot 6-184. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 147 of 211

Antenna-1 Radiated Band Edge Measurements (40MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 22.JAN.2015 13:13:43

Plot 6-185. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 148 of 211

Antenna-1 Radiated Band Edge Measurements (40MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

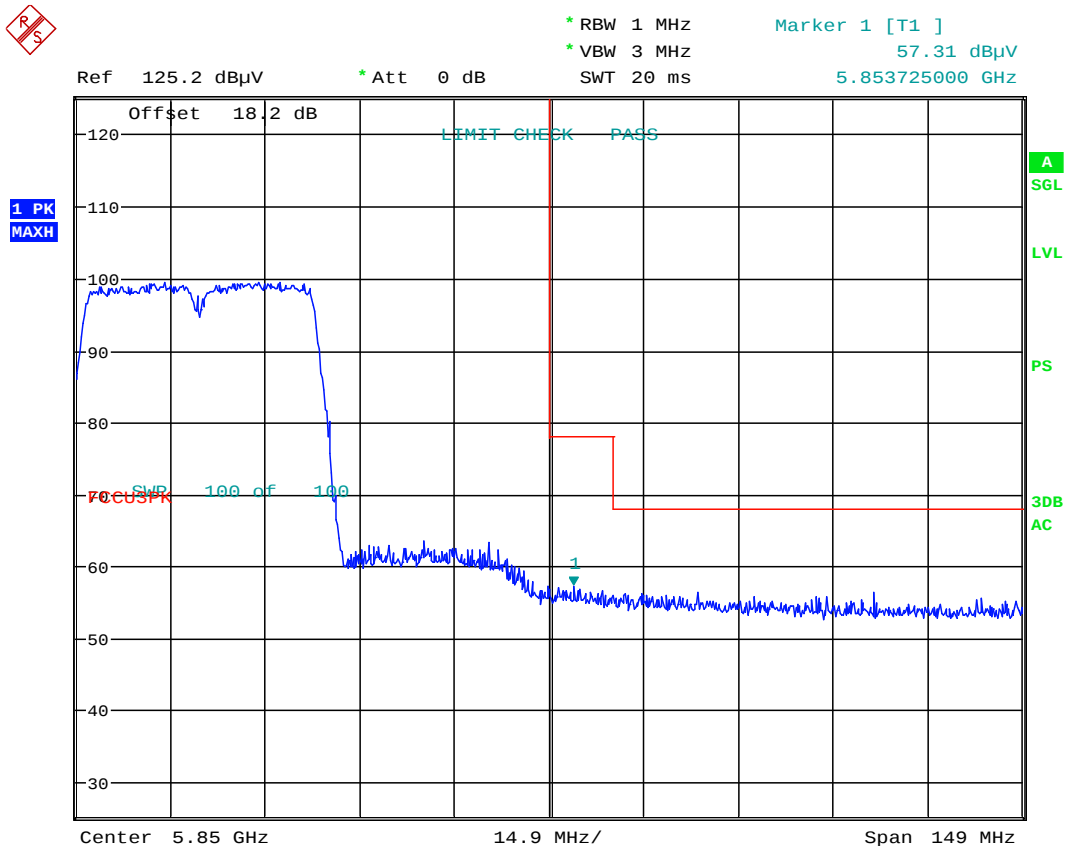
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5815MHz

Channel: 163



Date: 22.JAN.2015 13:54:46

Plot 6-186. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 149 of 211

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

\$15.407(b.1)(b.2) \$15.205 \$15.209

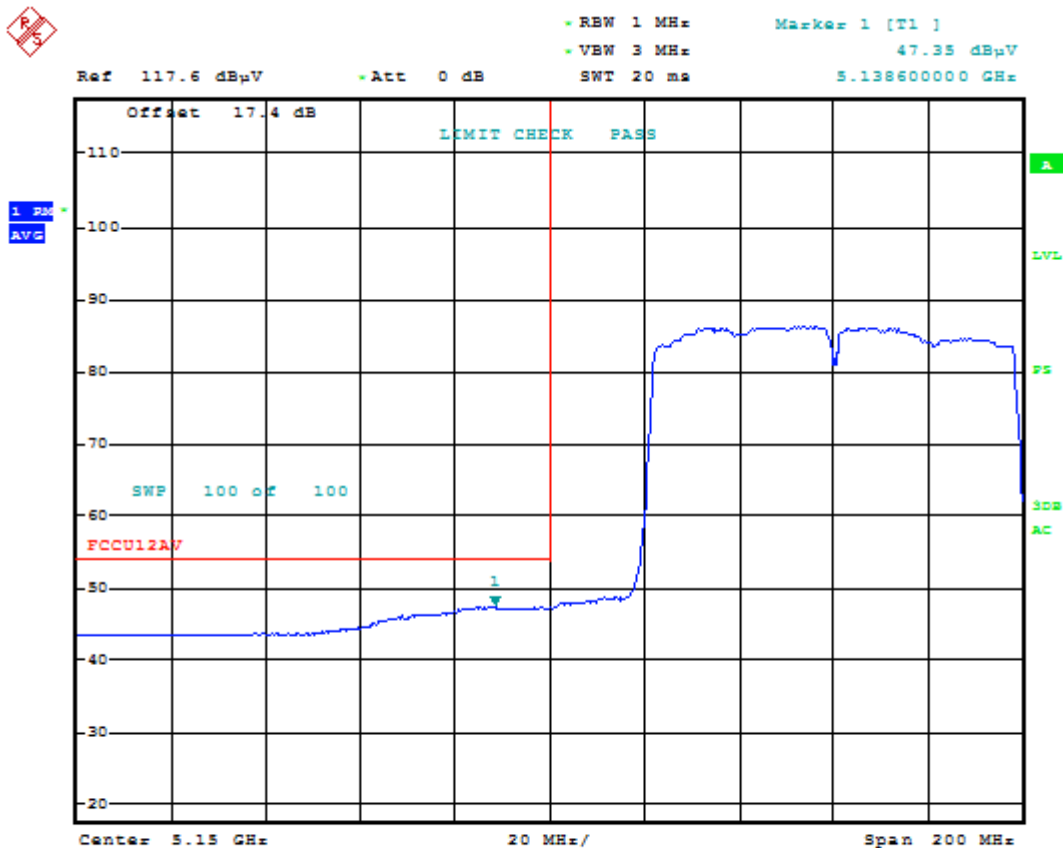
Worst Case Mode: 802.11n (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

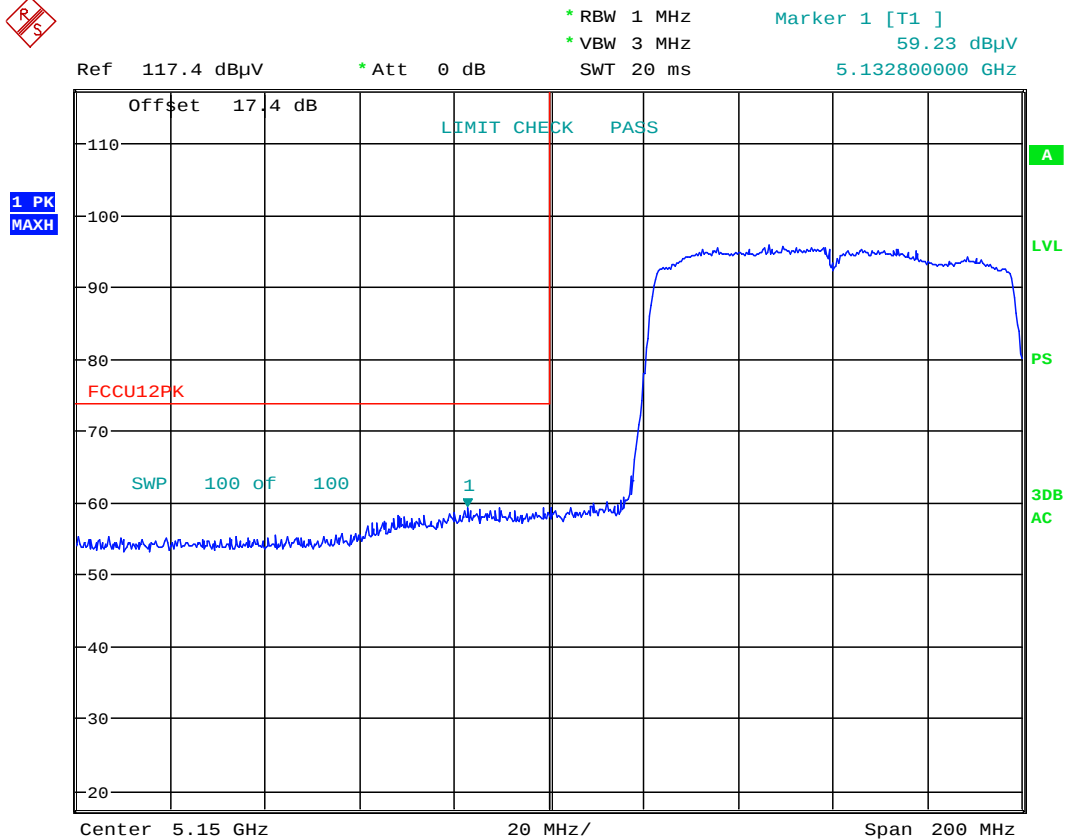
Channel: 42



Plot 6-187. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 150 of 211

Antenna-1 Radiated Band Edge Measurements (80MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 22.JAN.2015 12:42:40

Plot 6-188. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 151 of 211

Antenna-1 Radiated Band Edge Measurements (80MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

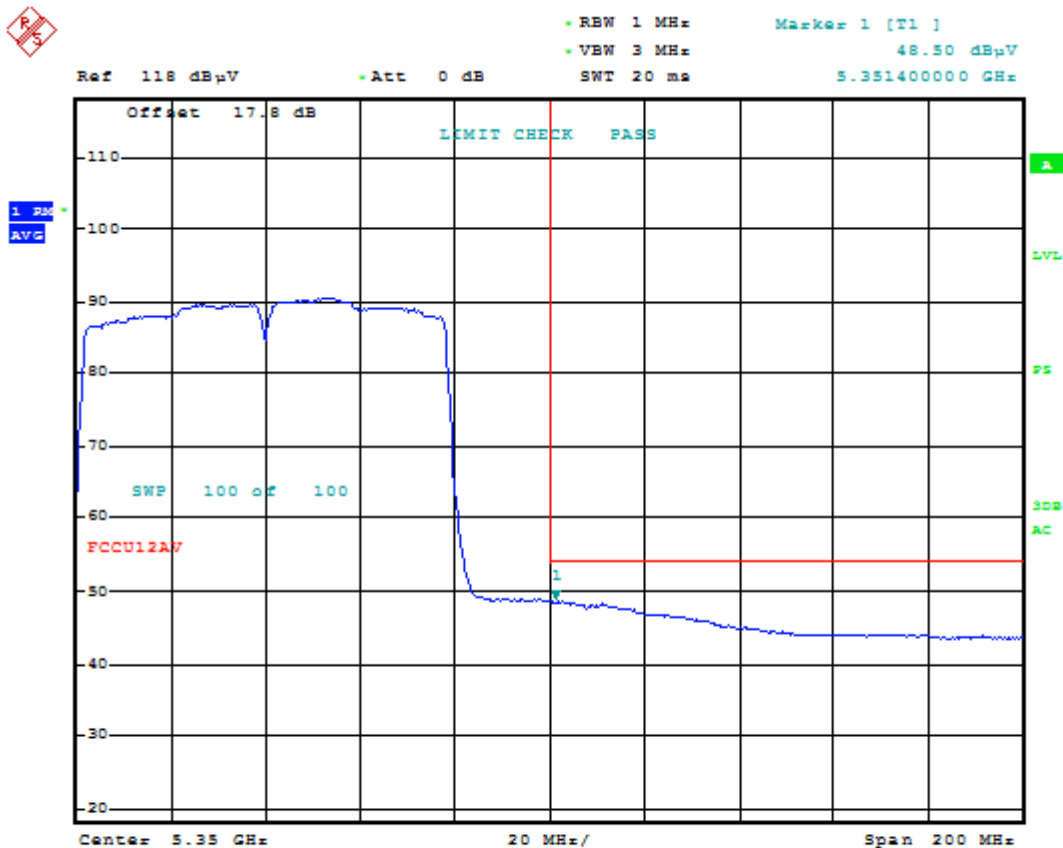
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58

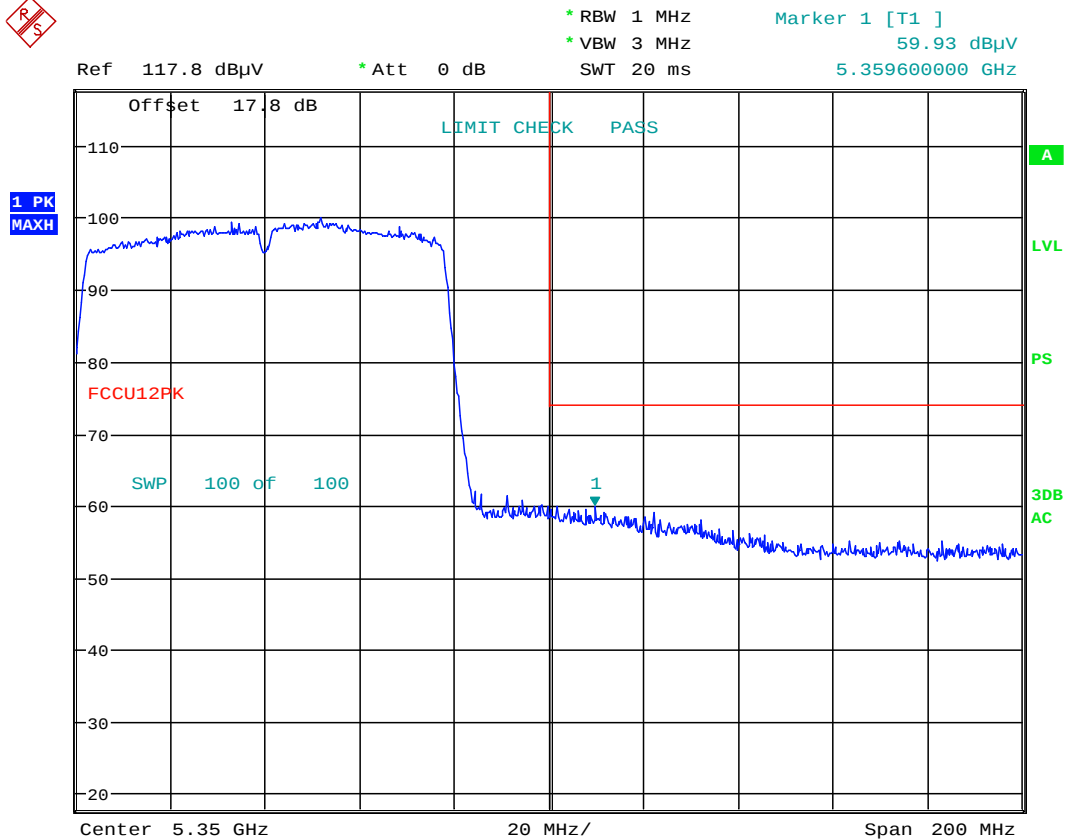


Date: 22.JAN.2015 13:03:03

Plot 6-189. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 152 of 211

Antenna-1 Radiated Band Edge Measurements (80MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 22.JAN.2015 13:03:33

Plot 6-190. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 153 of 211

Antenna-1 Radiated Band Edge Measurements (80MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

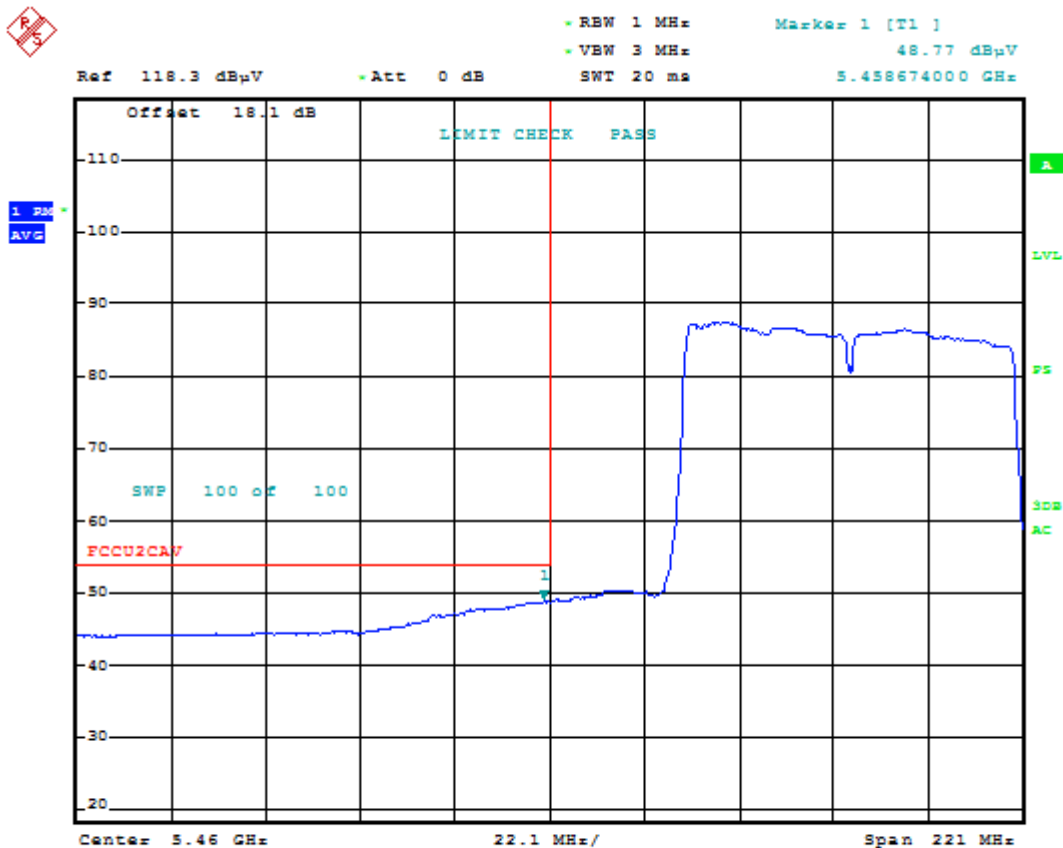
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5530MHz

Channel: 106

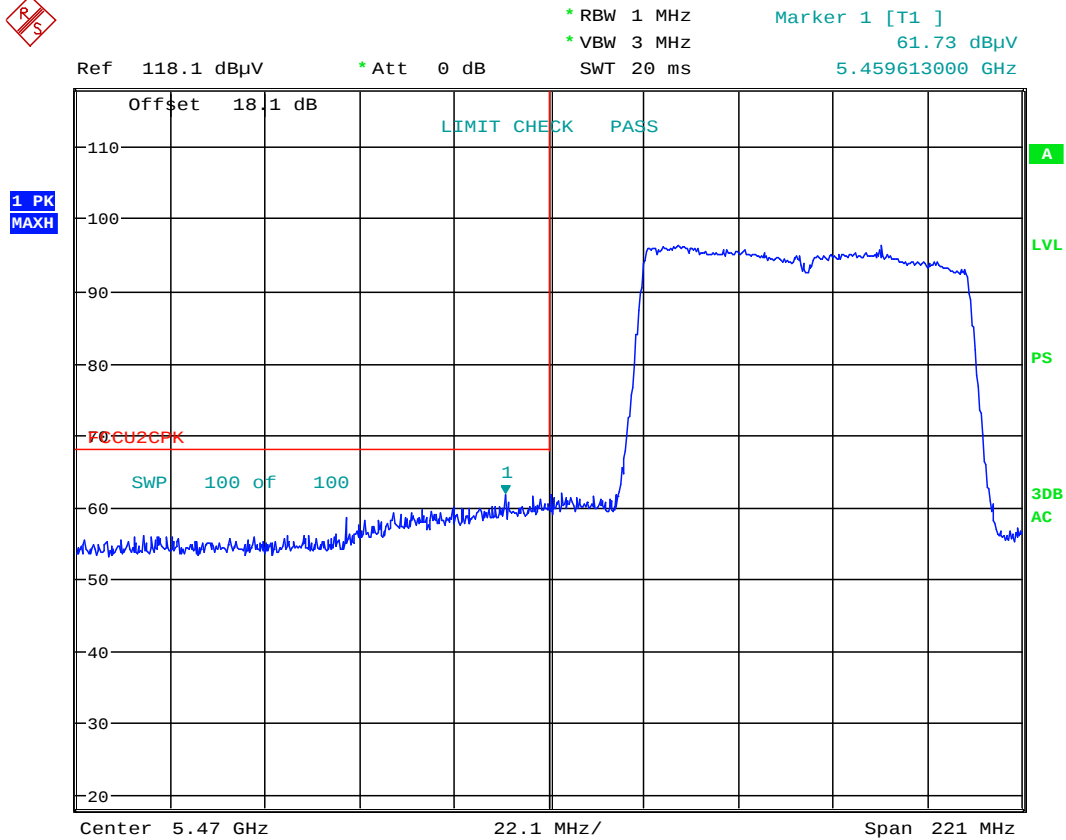


Date: 22.JAN.2015 13:25:22

Plot 6-191. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 154 of 211

Antenna-1 Radiated Band Edge Measurements (80MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



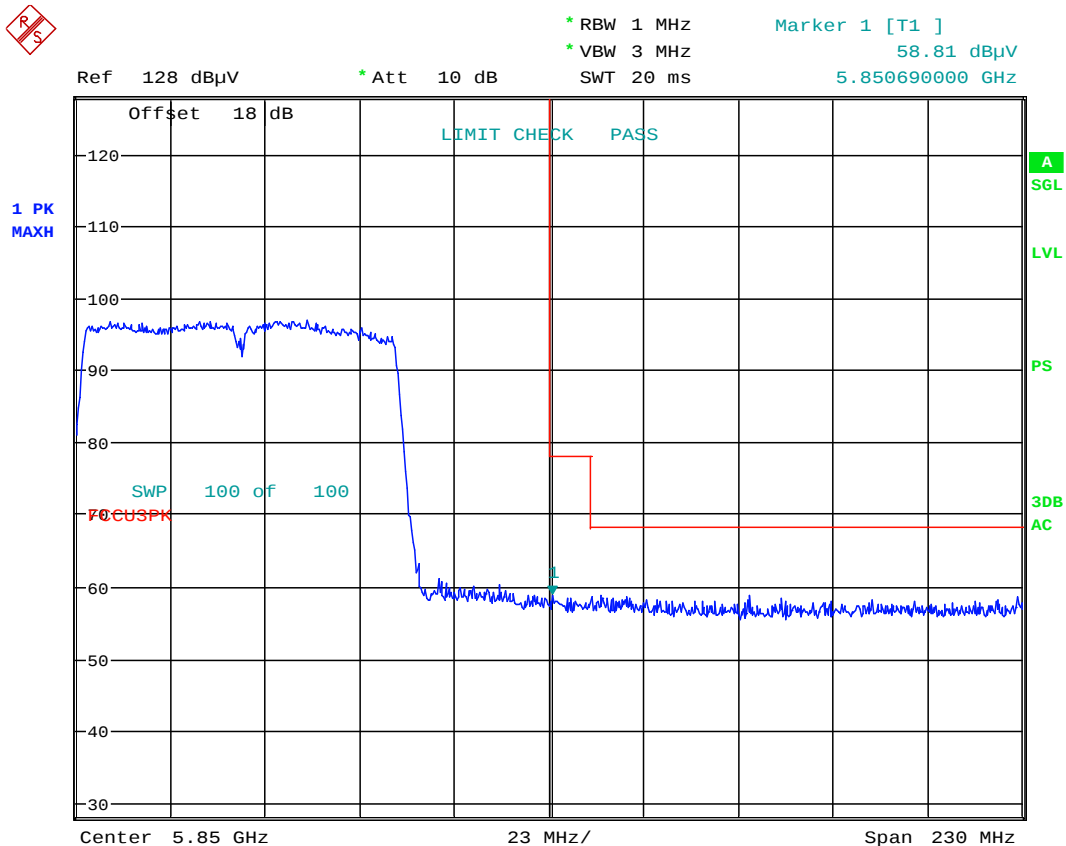
Date: 22.JAN.2015 13:26:02

Plot 6-192. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 155 of 211

Antenna-1 Radiated Band Edge Measurements (80MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

Worst Case Mode: 802.11ac (80MHz)
Worst Case Transfer Rate: MCS0
Distance of Measurements: 3 Meters
Operating Frequency: 5775MHz
Channel: 155



Date: 22.JAN.2015 13:45:41

Plot 6-193. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 156 of 211

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

\$15.407(b.1)(b.2) \$15.205 \$15.209

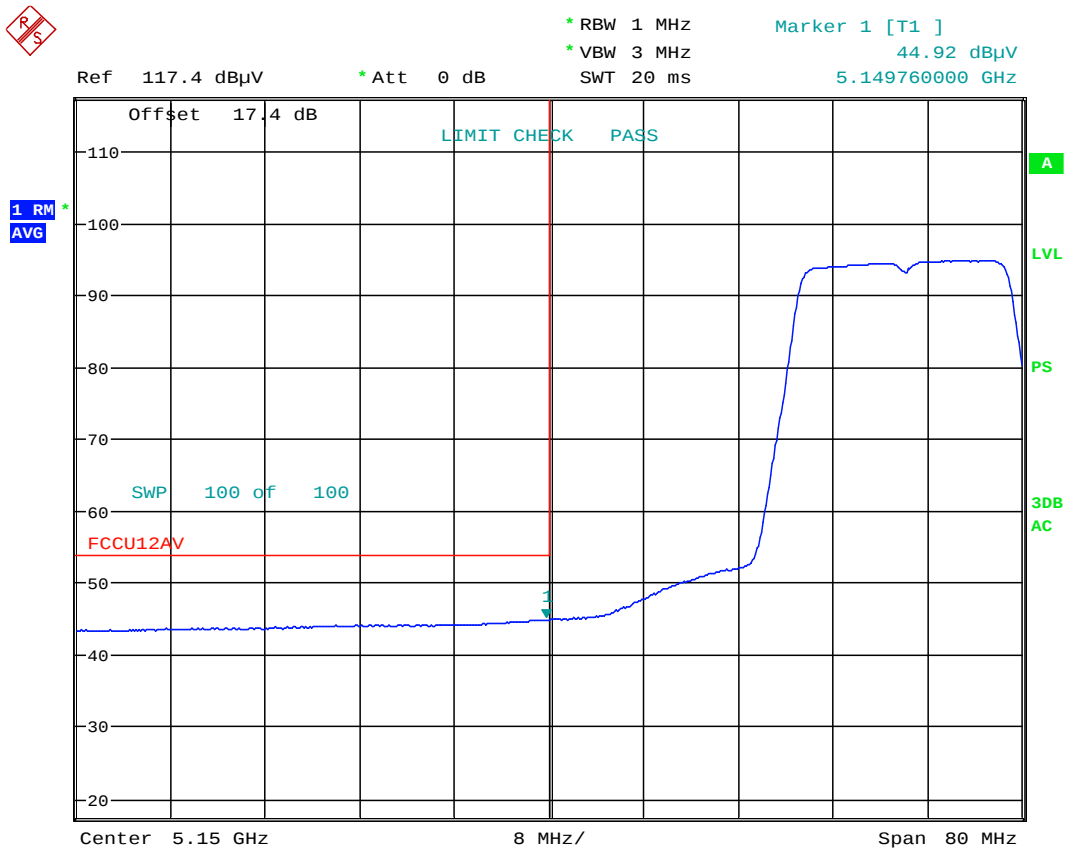
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36

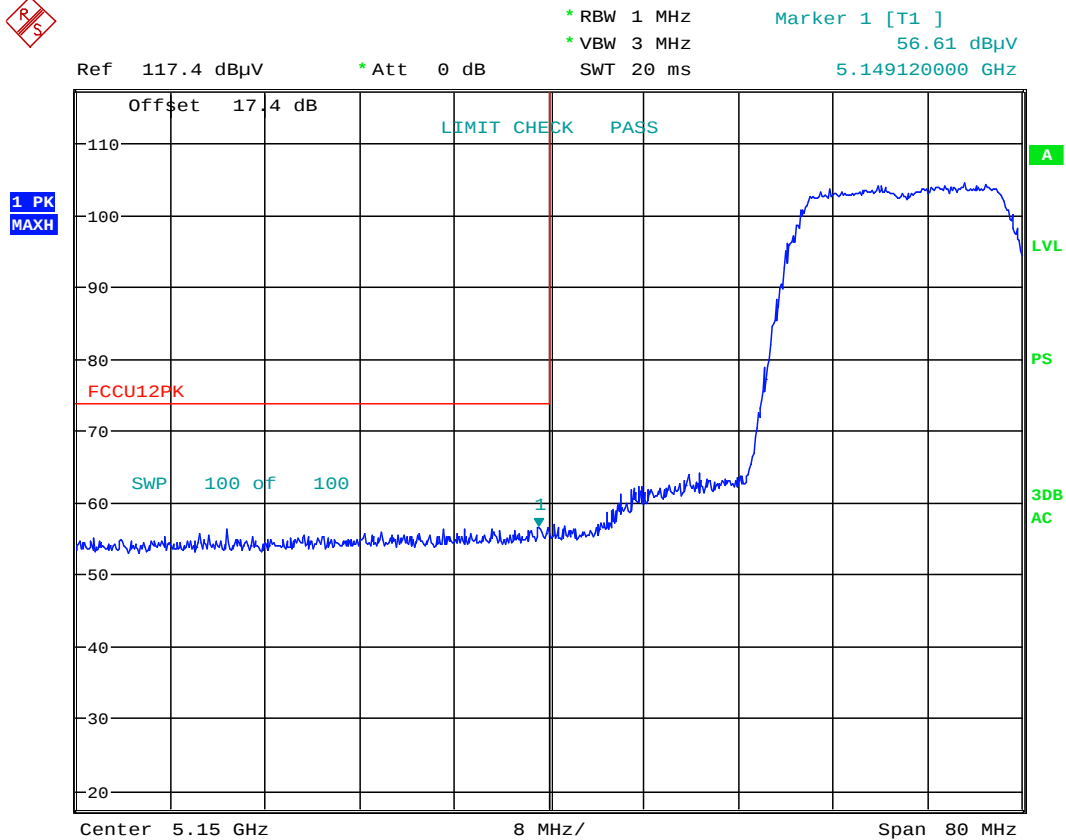


Date: 23.JAN.2015 14:25:39

Plot 6-194. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 157 of 211

Antenna-2 Radiated Band Edge Measurements (20MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 23.JAN.2015 14:26:04

Plot 6-195. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 158 of 211

Antenna-2 Radiated Band Edge Measurements (20MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

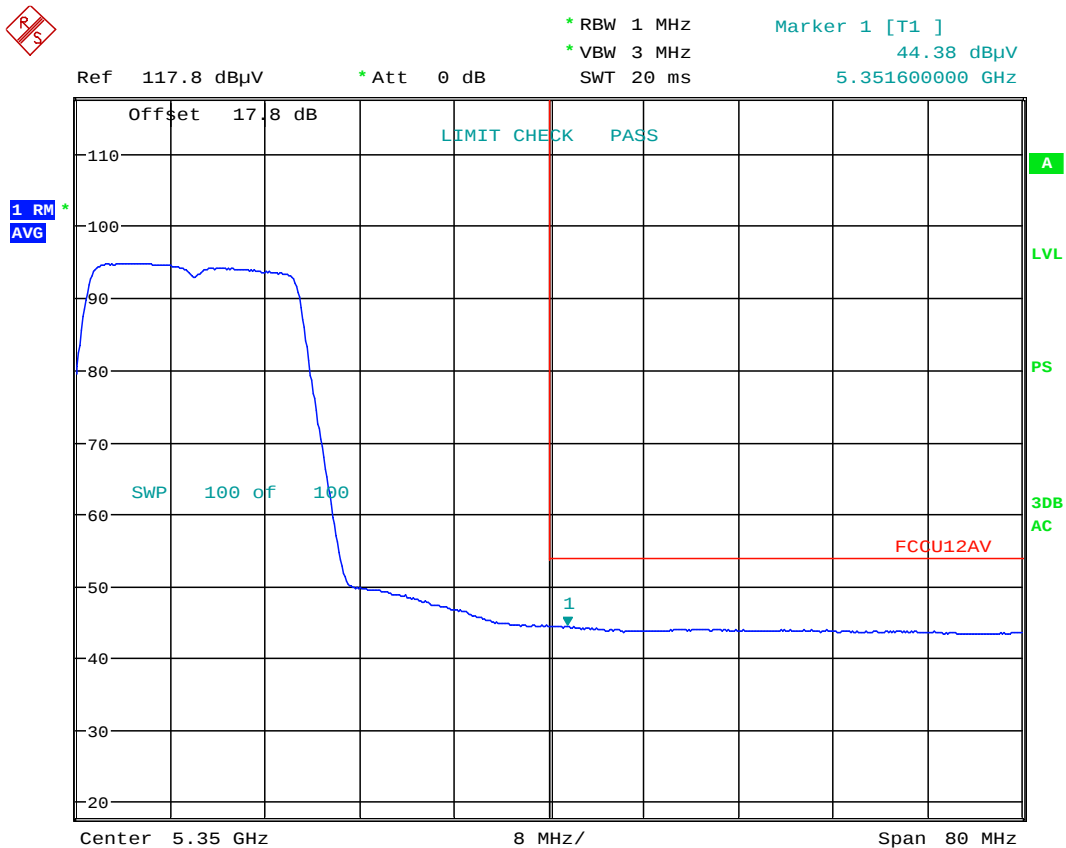
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64

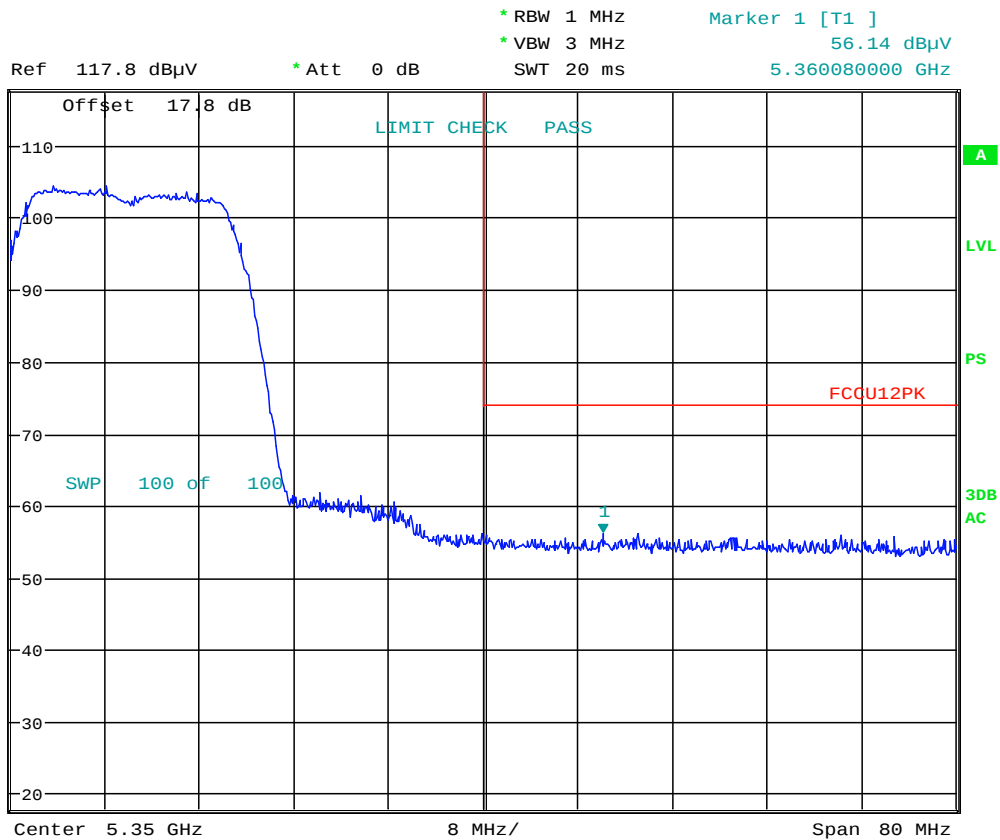


Date: 23.JAN.2015 14:54:56

Plot 6-196. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 159 of 211

Antenna-2 Radiated Band Edge Measurements (20MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 23.JAN.2015 14:55:20

Plot 6-197. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 160 of 211

Antenna-2 Radiated Band Edge Measurements (20MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

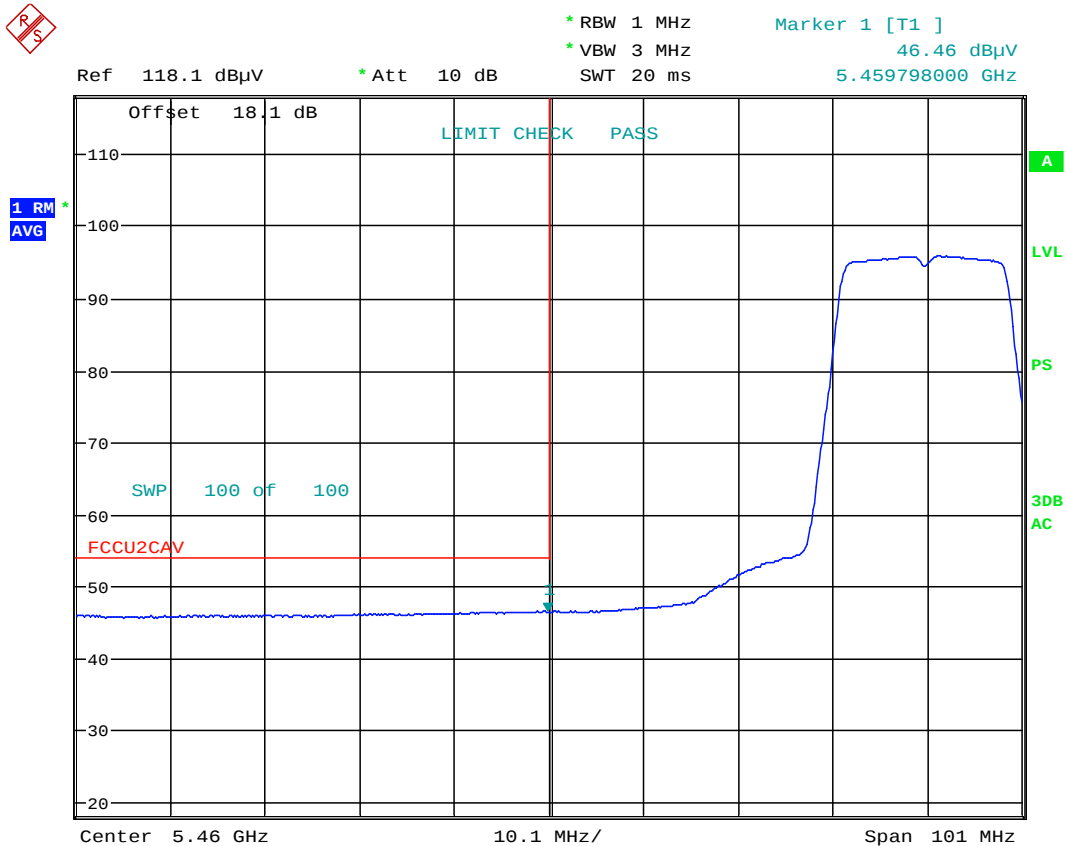
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

Channel: 100

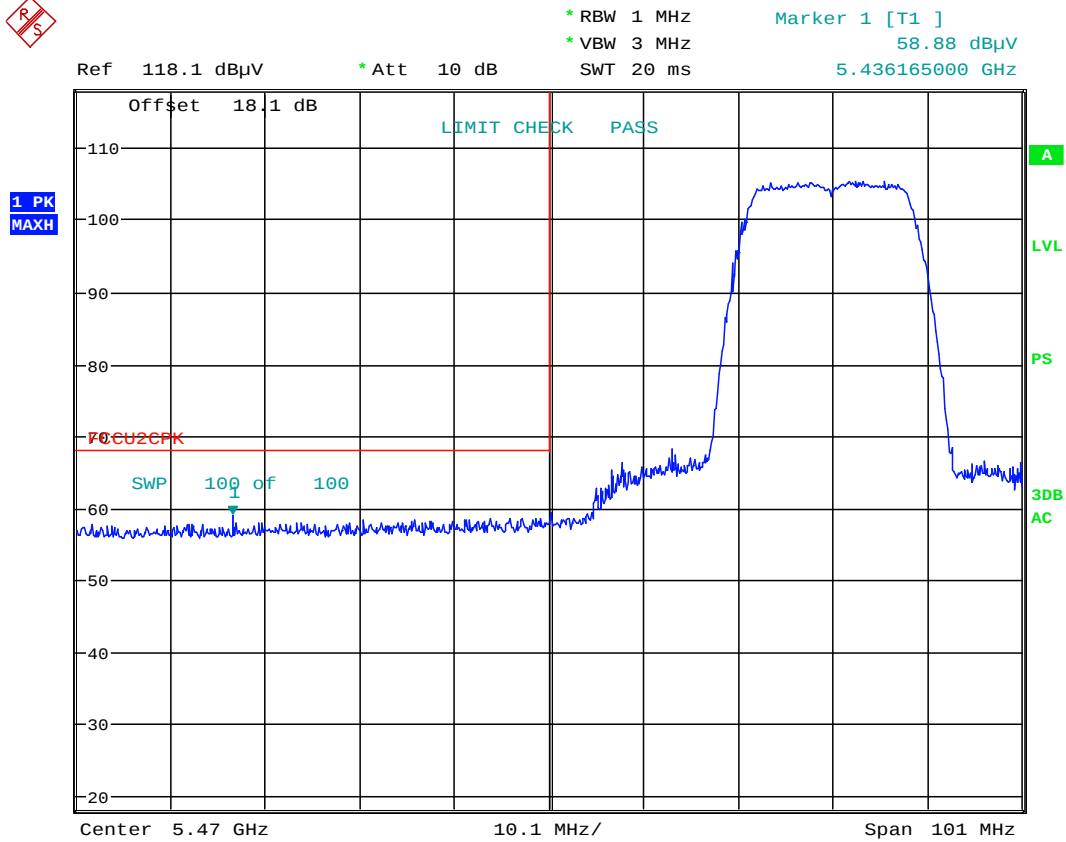


Date: 23.JAN.2015 15:10:22

Plot 6-198. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 161 of 211

Antenna-2 Radiated Band Edge Measurements (20MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 23.JAN.2015 15:11:46

Plot 6-199. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 162 of 211

Antenna-2 Radiated Band Edge Measurements (20MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

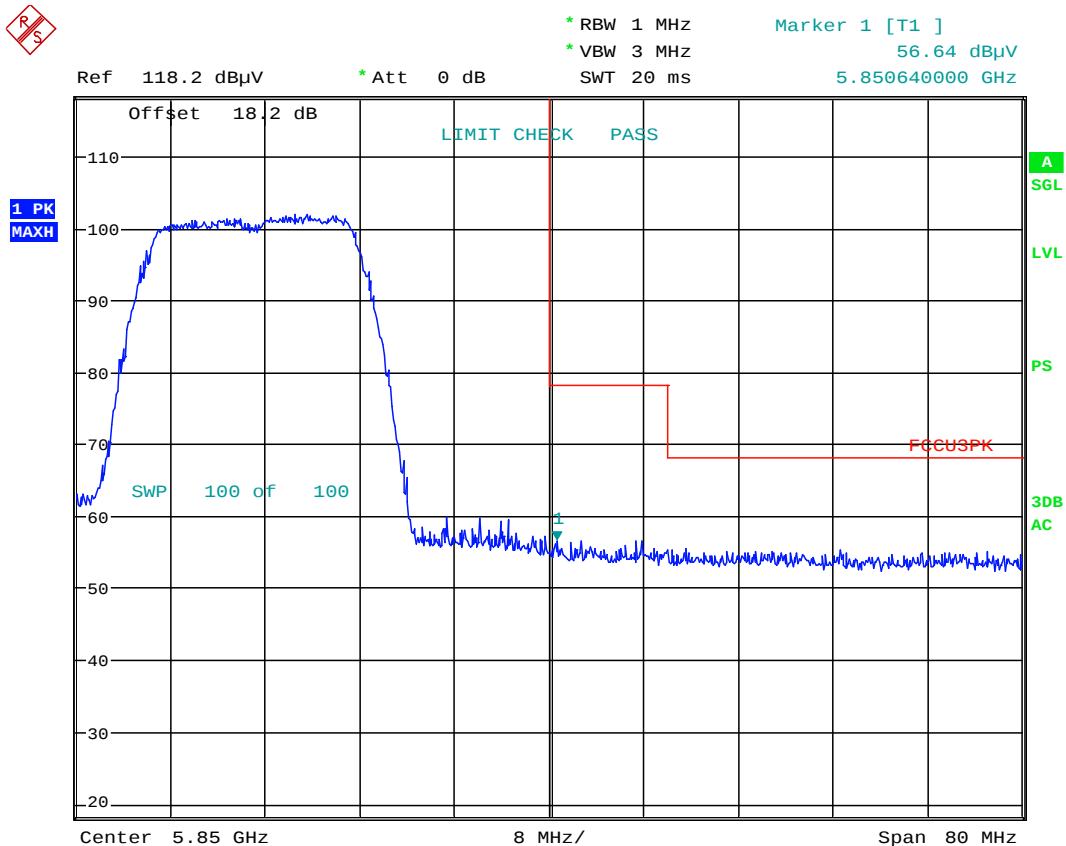
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5825MHz

Channel: 165



Date: 23.JAN.2015 15:47:48

Plot 6-200. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 163 of 211

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

\$15.407(b.1)(b.2) \$15.205 \$15.209

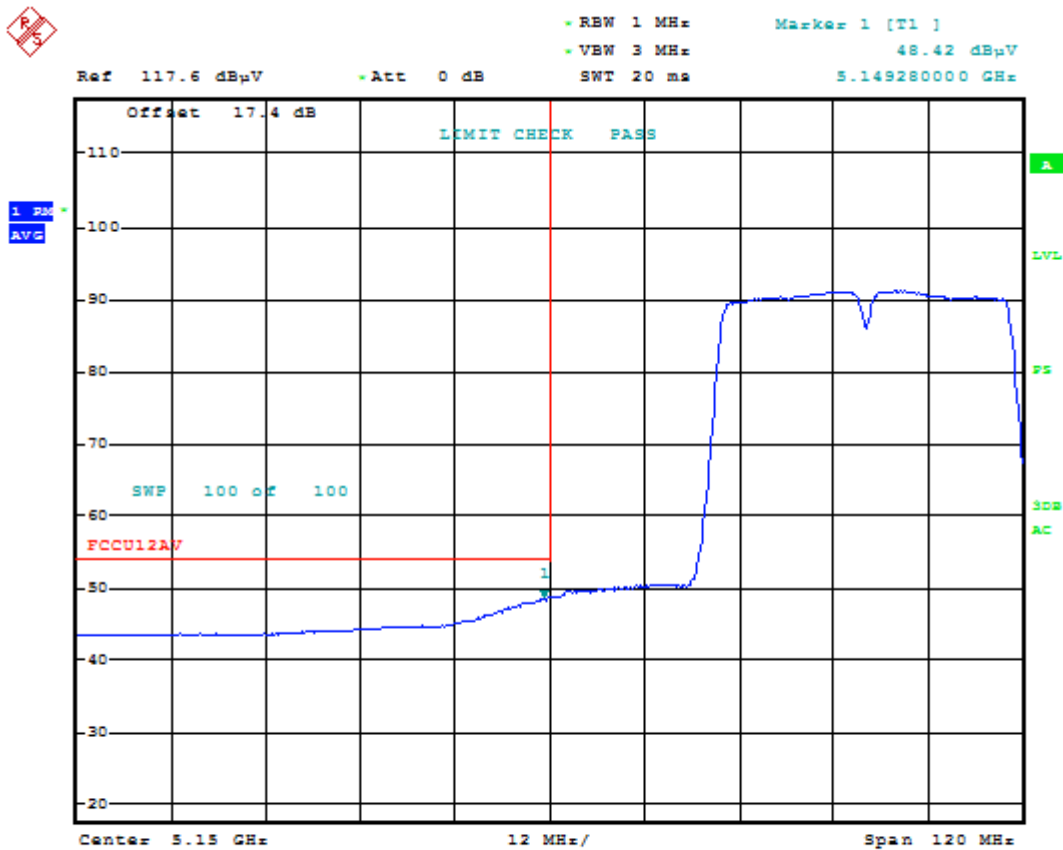
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38

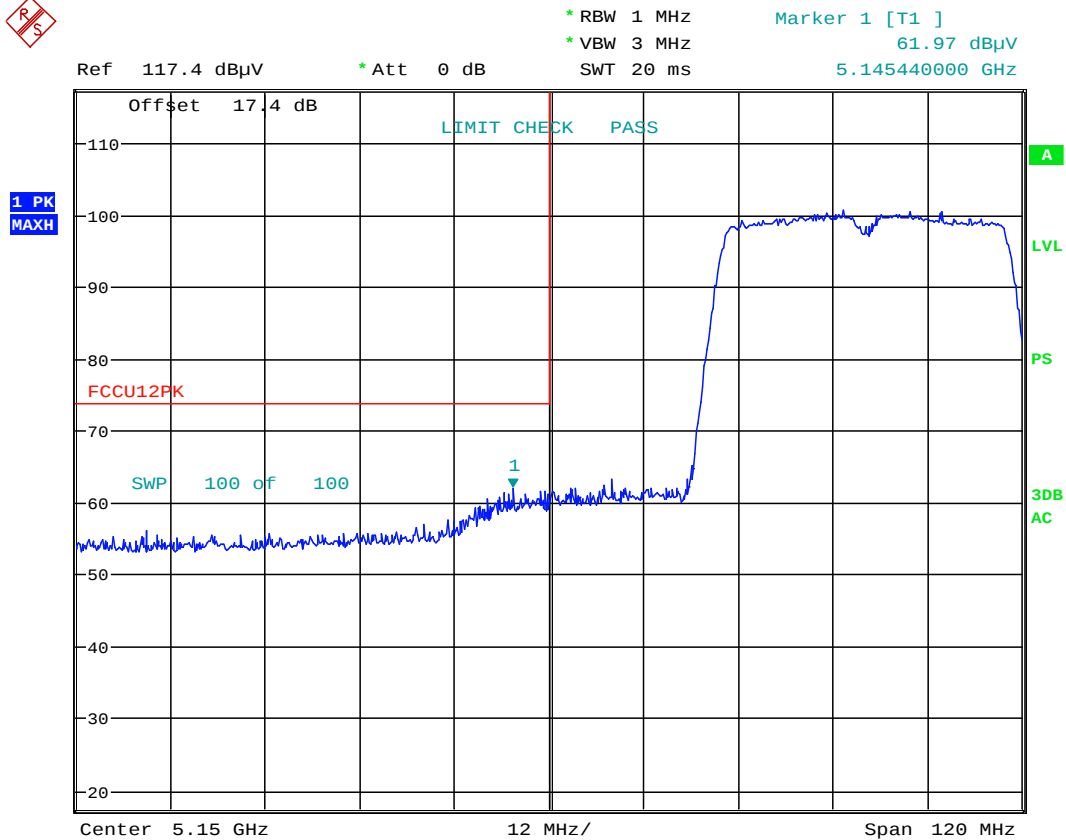


Date: 23.JAN.2015 14:32:54

Plot 6-201. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 164 of 211

Antenna-2 Radiated Band Edge Measurements (40MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 23.JAN.2015 14:33:53

Plot 6-202. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 165 of 211

Antenna-2 Radiated Band Edge Measurements (40MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

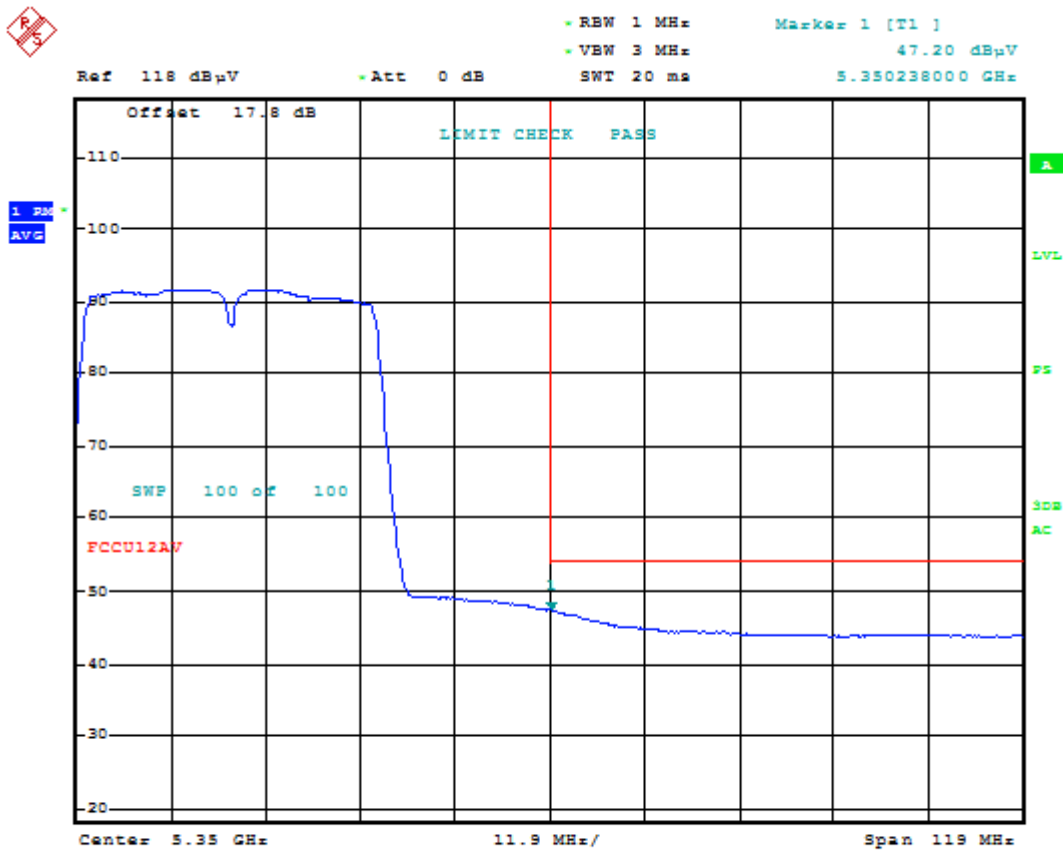
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62

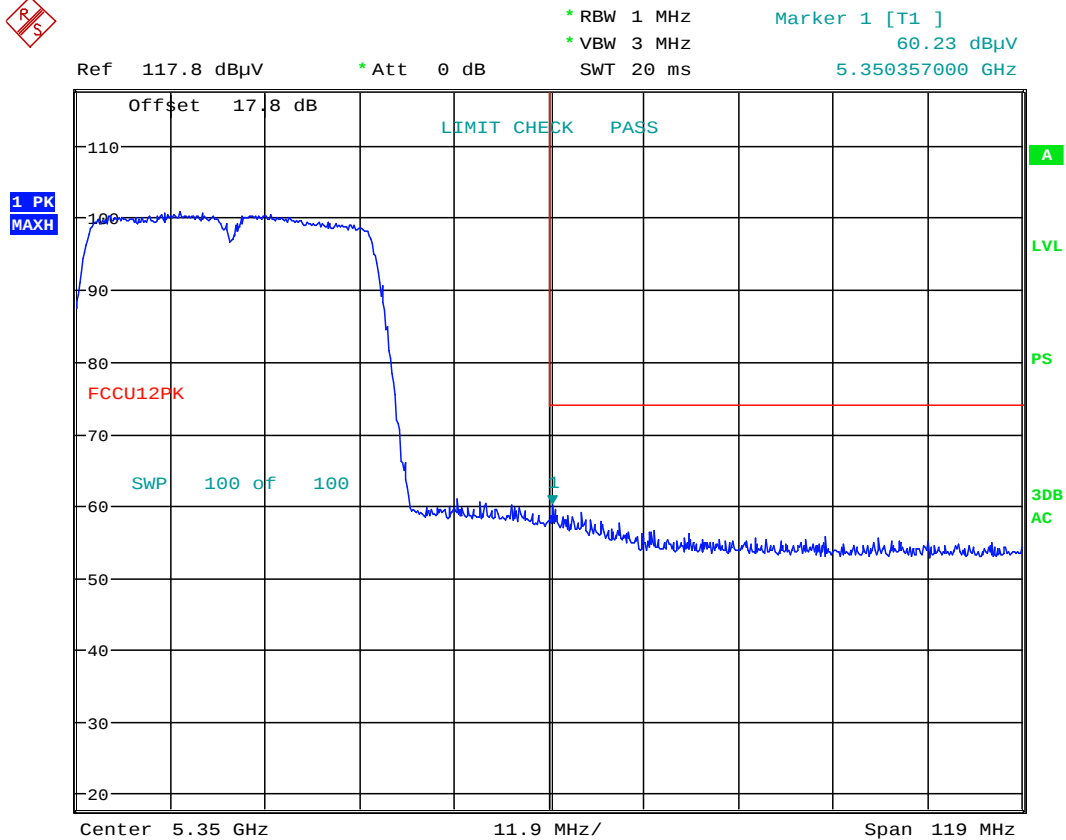


Date: 23.JAN.2015 14:57:52

Plot 6-203. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 166 of 211

Antenna-2 Radiated Band Edge Measurements (40MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 23.JAN.2015 14:58:25

Plot 6-204. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 167 of 211

Antenna-2 Radiated Band Edge Measurements (40MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

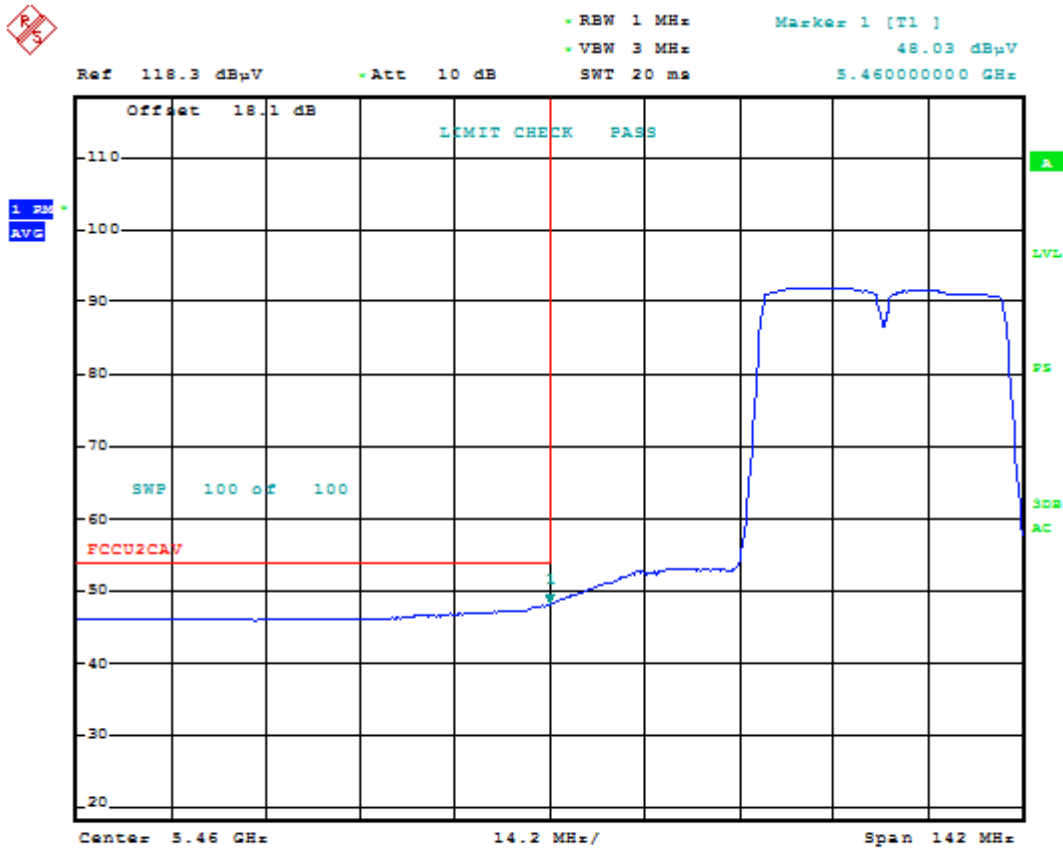
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102

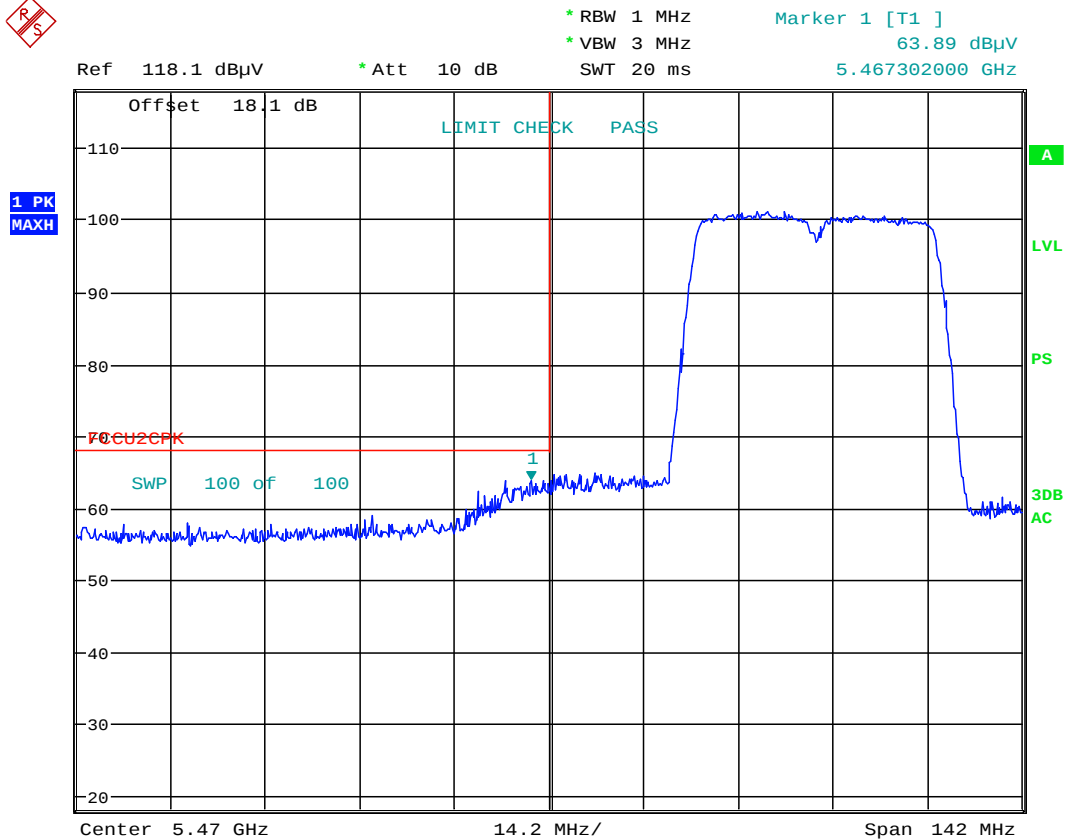


Date: 23.JAN.2015 15:13:53

Plot 6-205. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 168 of 211

Antenna-2 Radiated Band Edge Measurements (40MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 23.JAN.2015 15:14:38

Plot 6-206. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 169 of 211

Antenna-2 Radiated Band Edge Measurements (40MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

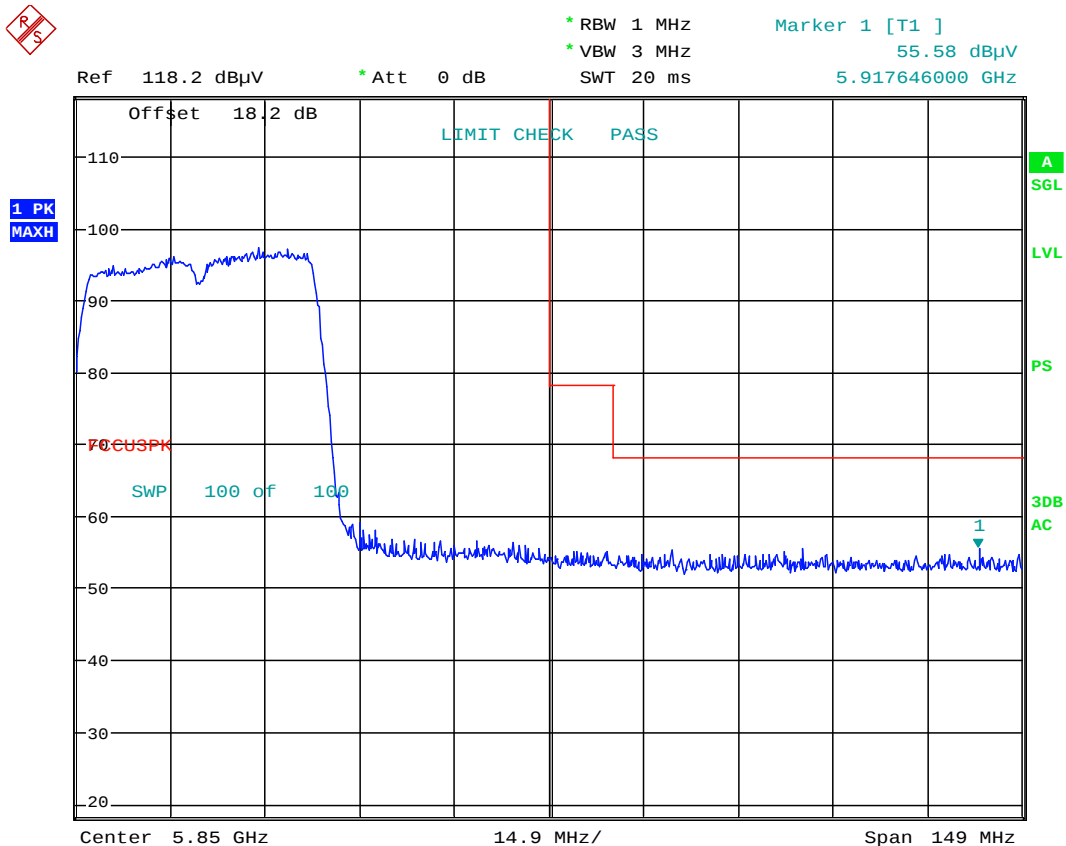
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5815MHz

Channel: 163



Date: 23.JAN.2015 15:49:48

Plot 6-207. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 170 of 211

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

\$15.407(b.1)(b.2) \$15.205 \$15.209

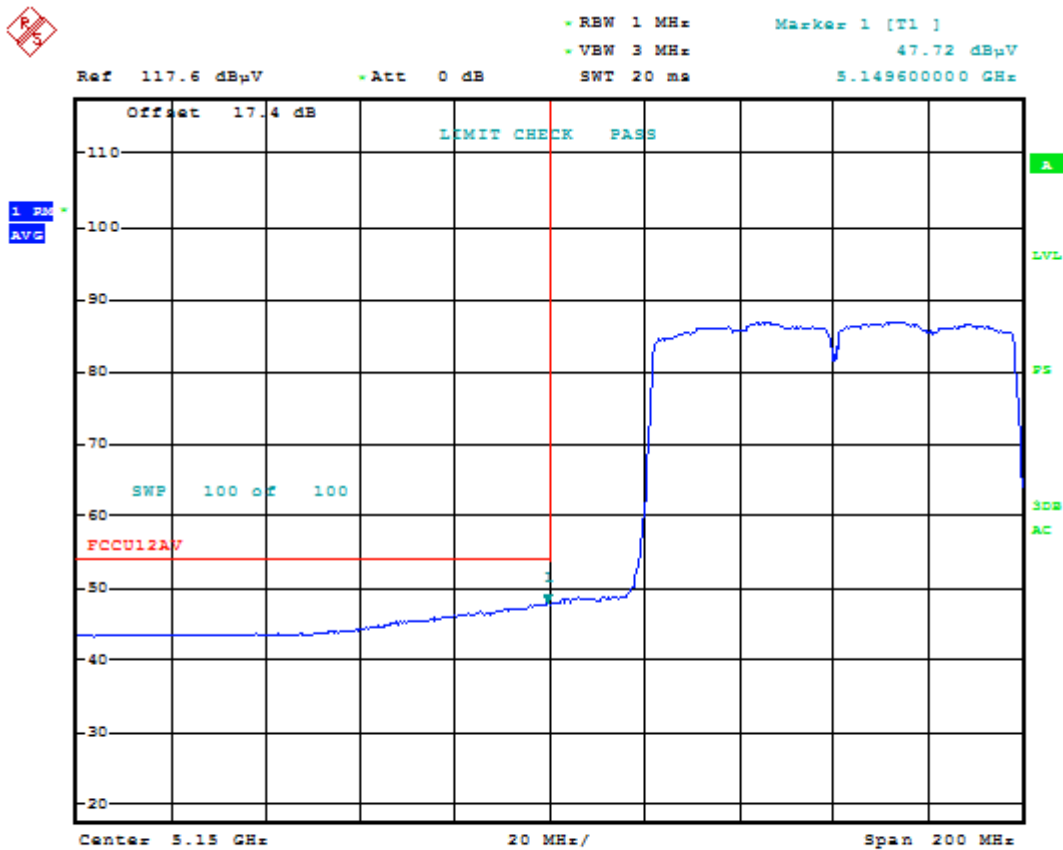
Worst Case Mode: 802.11n (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42

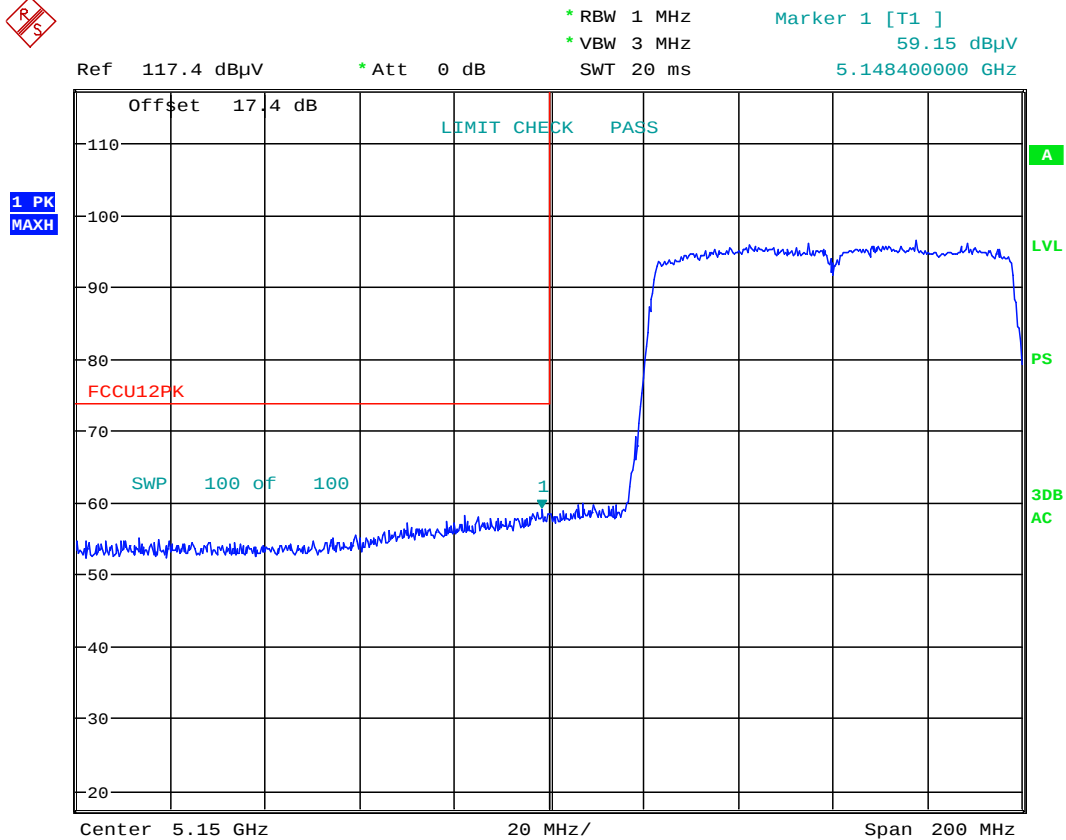


Date: 23.JAN.2015 14:42:04

Plot 6-208. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 171 of 211

Antenna-2 Radiated Band Edge Measurements (80MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 23.JAN.2015 14:42:34

Plot 6-209. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 172 of 211

Antenna-2 Radiated Band Edge Measurements (80MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

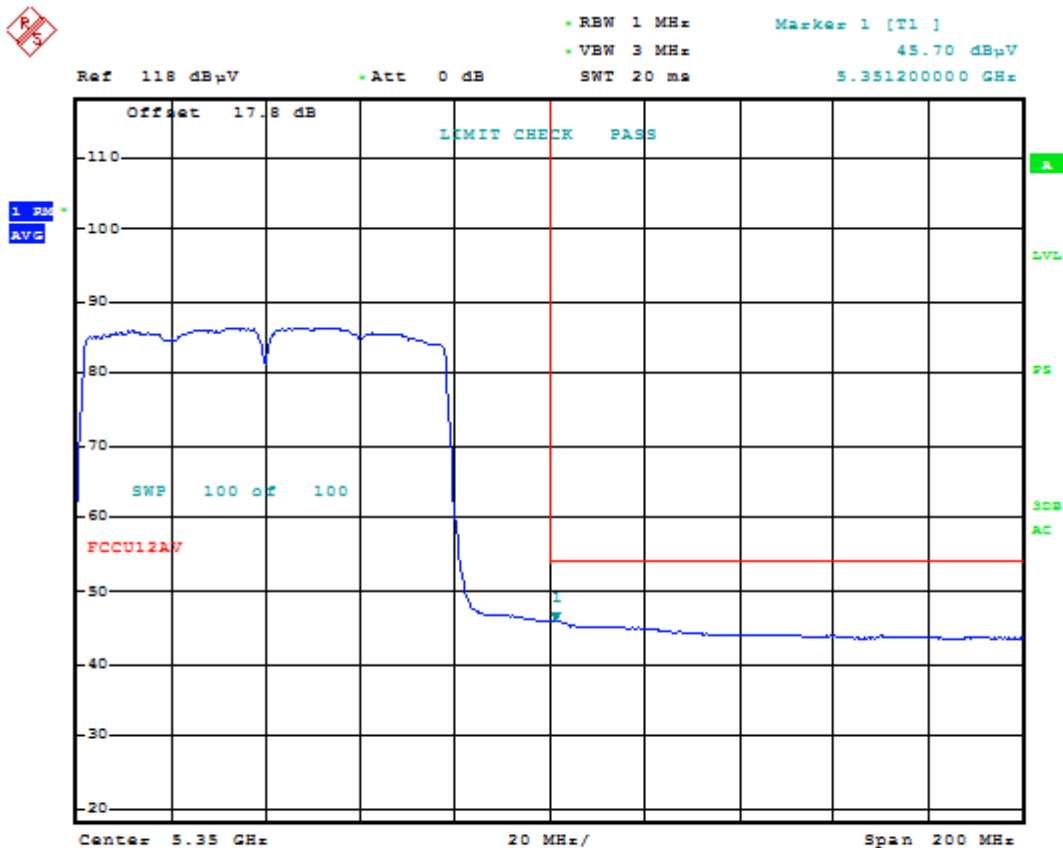
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58

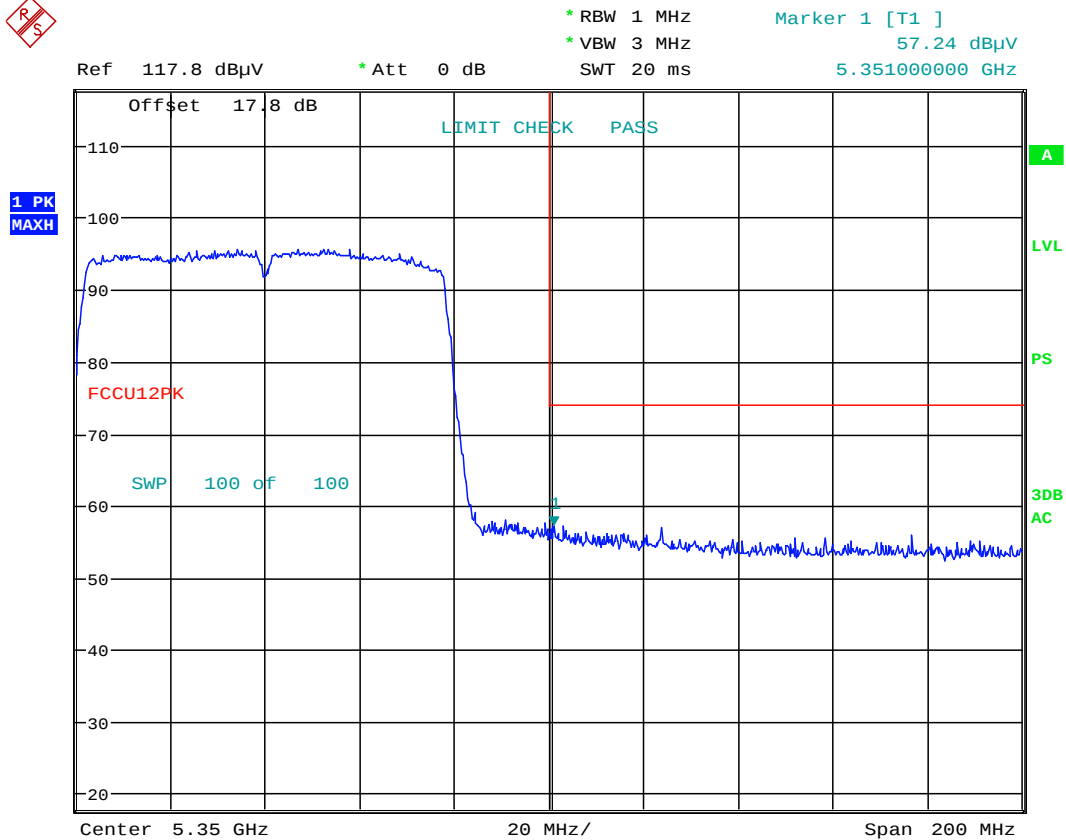


Date: 23.JAN.2015 15:01:13

Plot 6-210. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 173 of 211

Antenna-2 Radiated Band Edge Measurements (80MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 23.JAN.2015 15:02:55

Plot 6-211. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 174 of 211

Antenna-2 Radiated Band Edge Measurements (80MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

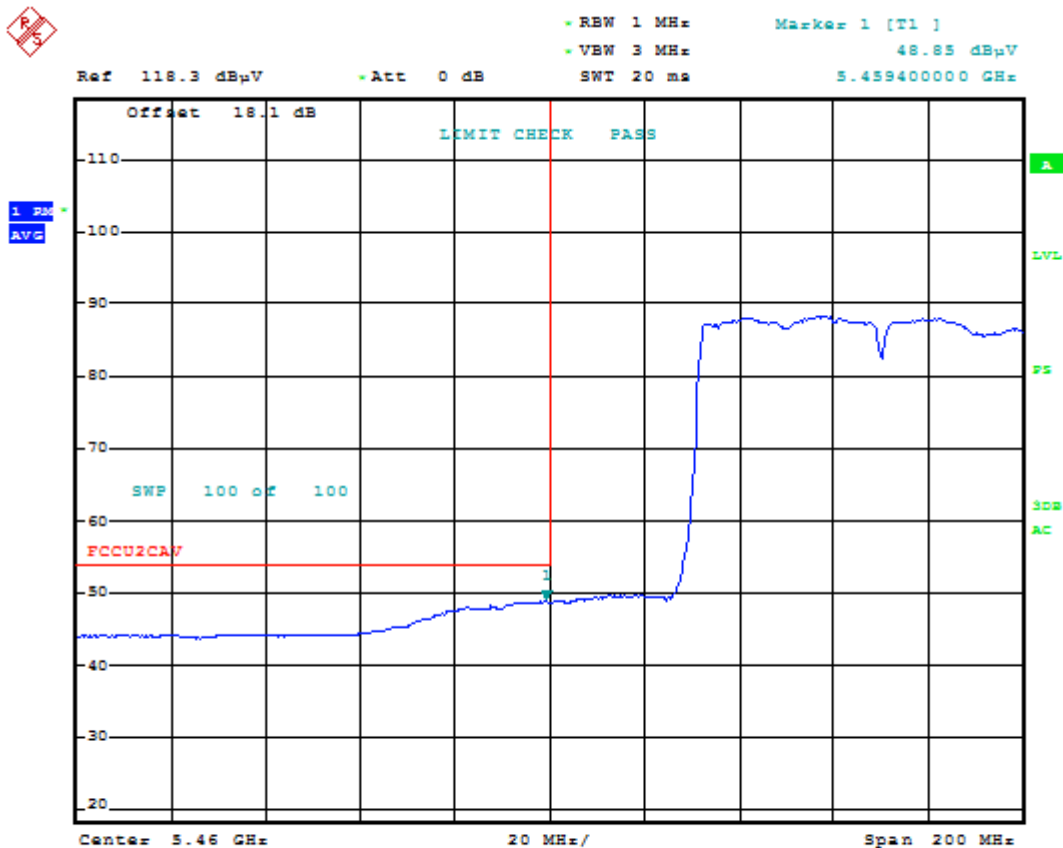
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5530MHz

Channel: 106

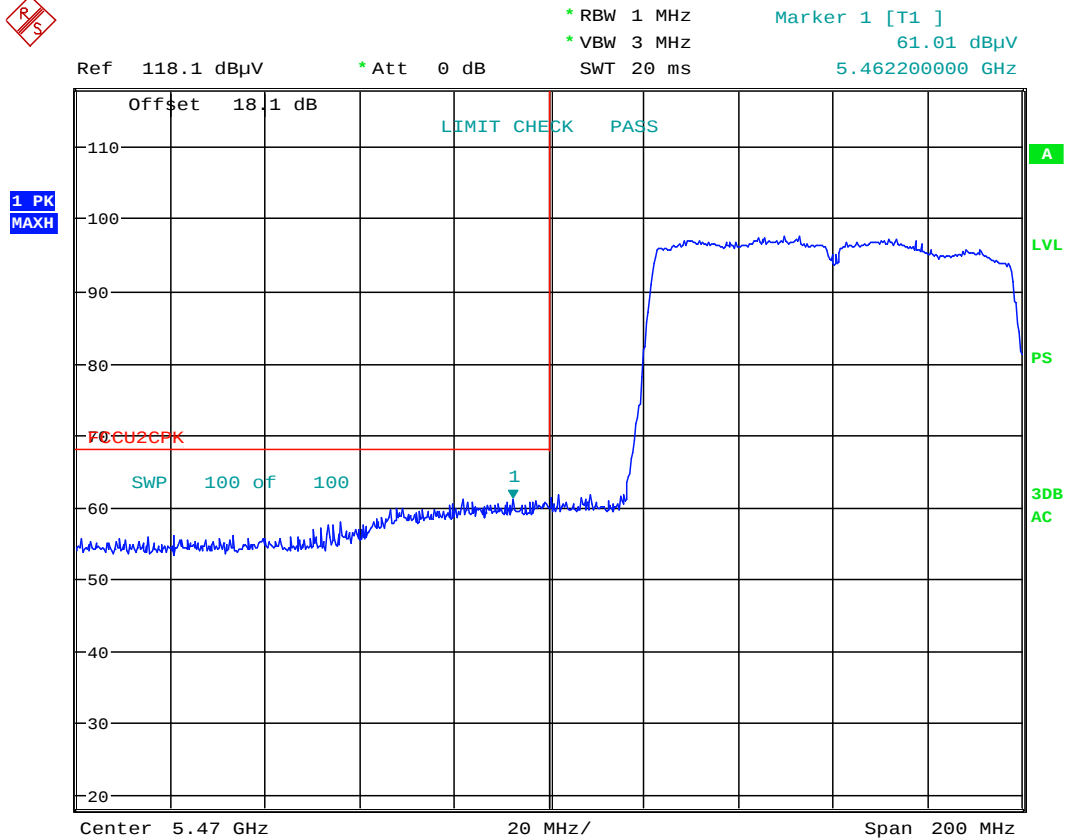


Date: 23.JAN.2015 15:17:30

Plot 6-212. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 175 of 211

Antenna-2 Radiated Band Edge Measurements (80MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**



Date: 23.JAN.2015 15:18:49

Plot 6-213. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 176 of 211

Antenna-2 Radiated Band Edge Measurements (80MHz BW) **\$15.407(b.1)(b.2) \$15.205 \$15.209**

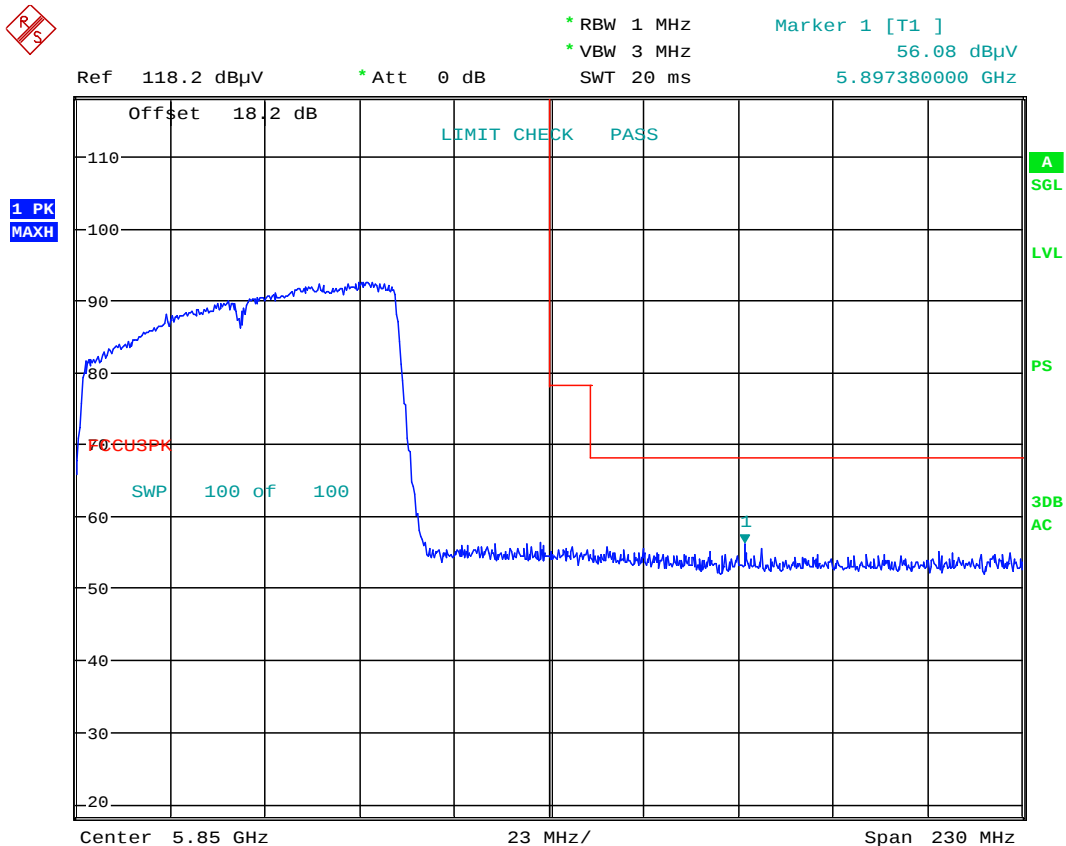
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5775MHz

Channel: 155



Date: 23.JAN.2015 15:51:15

Plot 6-214. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 177 of 211

6.7.9 MIMO Radiated Band Edge Measurements (20MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

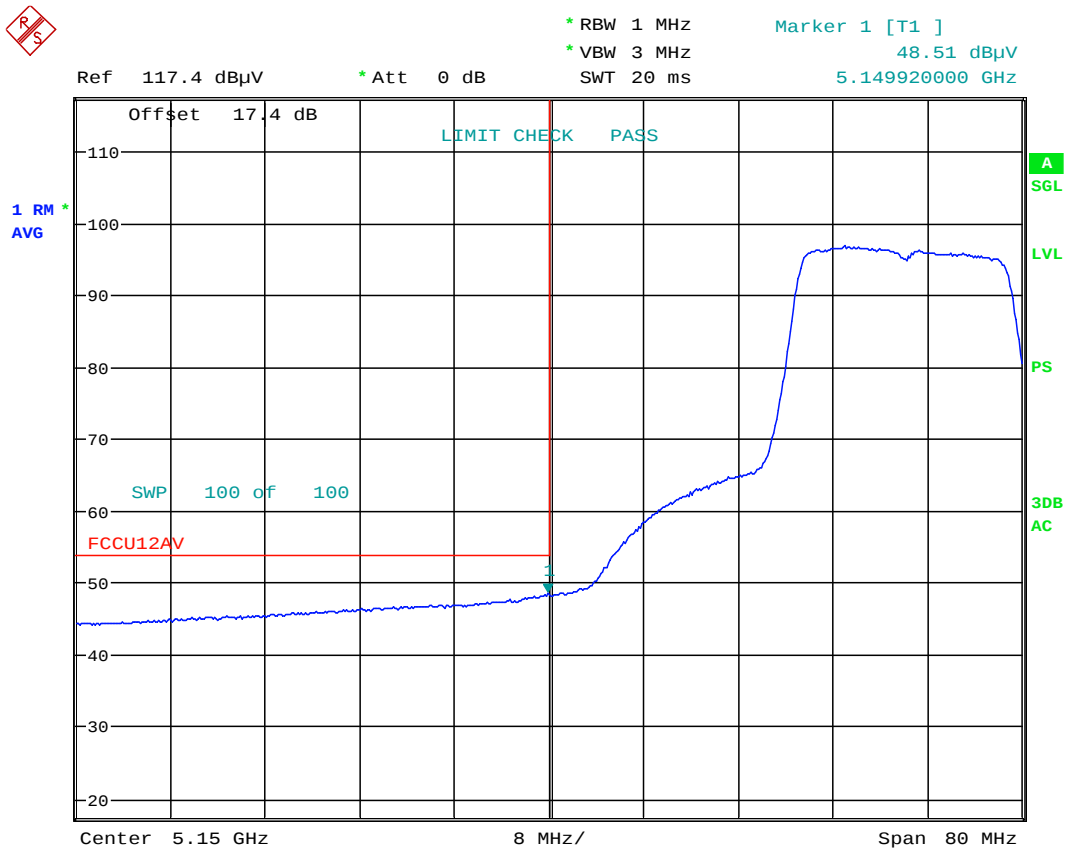
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36



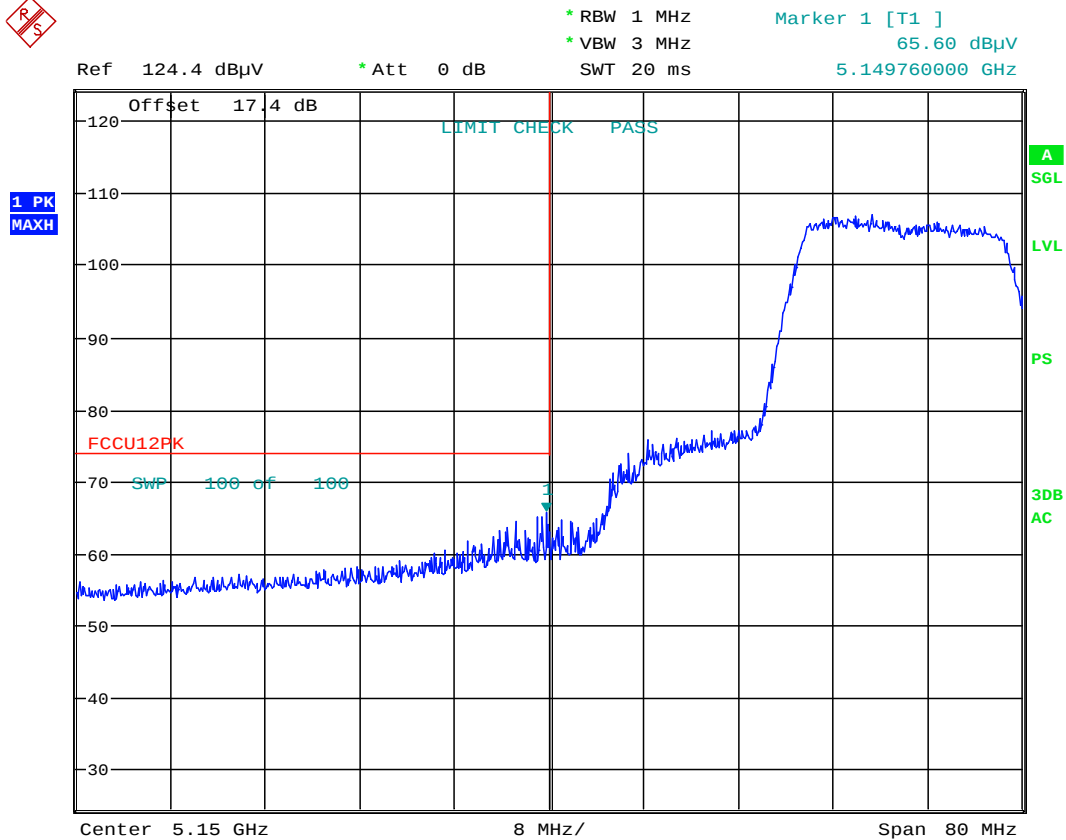
Date: 26.JAN.2015 11:37:11

Plot 6-215. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 178 of 211

MIMO Radiated Band Edge Measurements (20MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209



Date: 26.JAN.2015 11:38:47

Plot 6-216. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 179 of 211

MIMO Radiated Band Edge Measurements (20MHz BW) \$15.407(b.1)(b.2) \$15.205 \$15.209

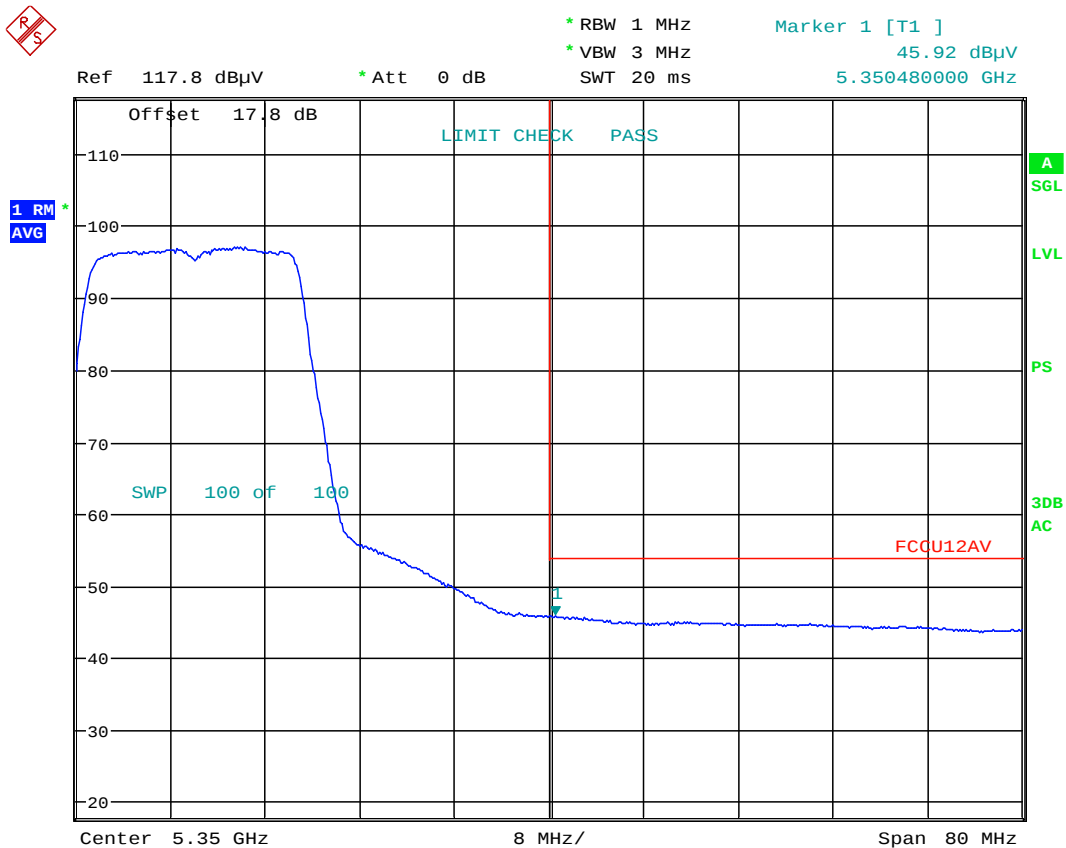
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64



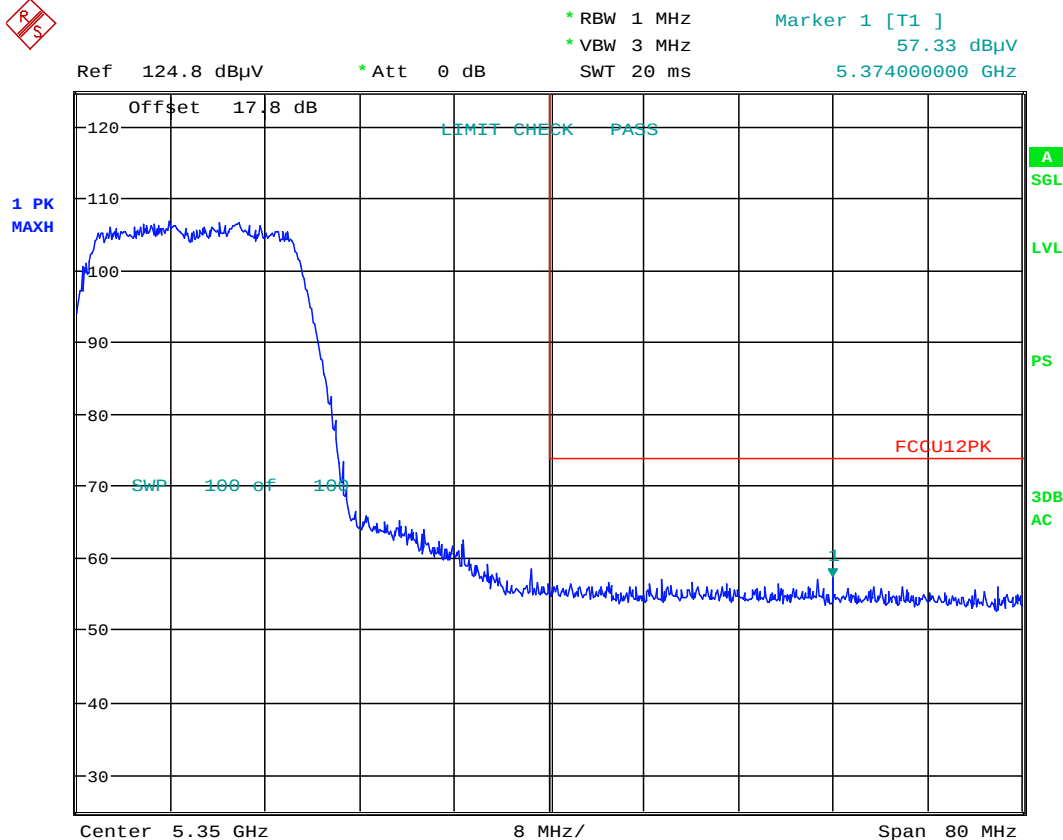
Date: 26.JAN.2015 11:43:54

Plot 6-217. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 180 of 211

MIMO Radiated Band Edge Measurements (20MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209



Date: 26.JAN.2015 12:06:55

Plot 6-218. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 181 of 211

MIMO Radiated Band Edge Measurements (20MHz BW) \$15.407(b.1)(b.2) \$15.205 \$15.209

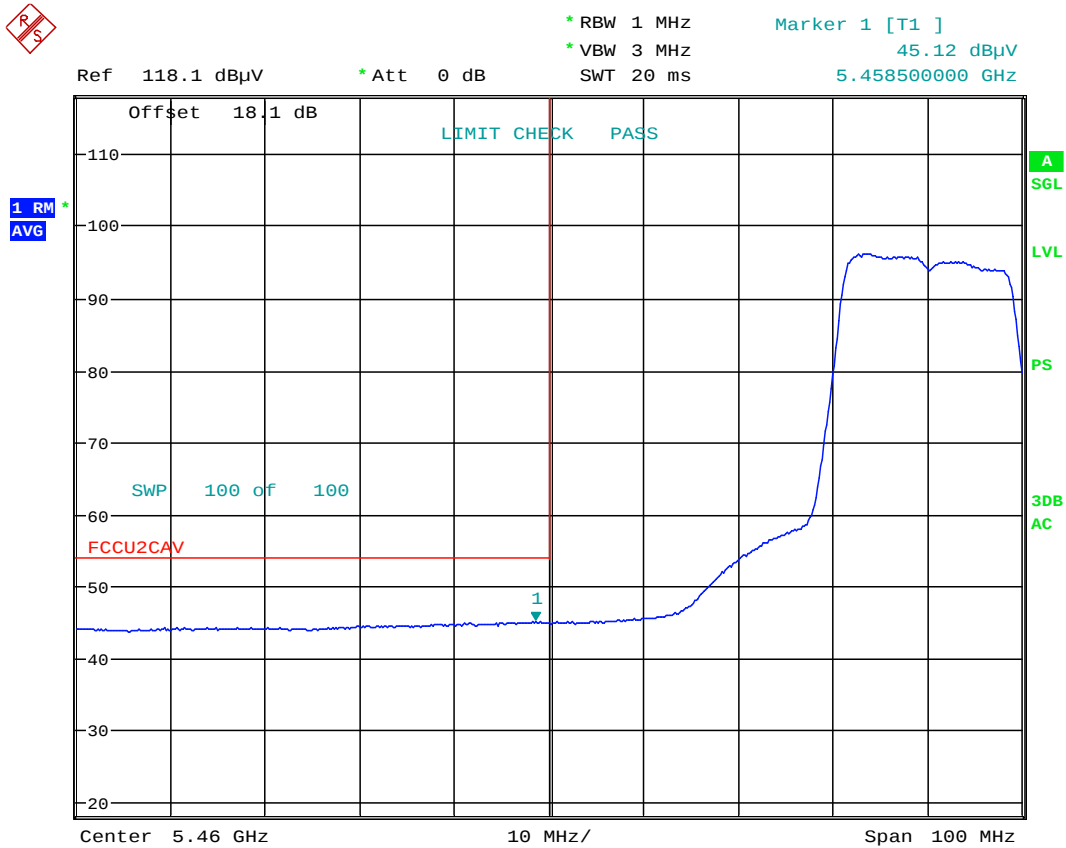
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

Channel: 100

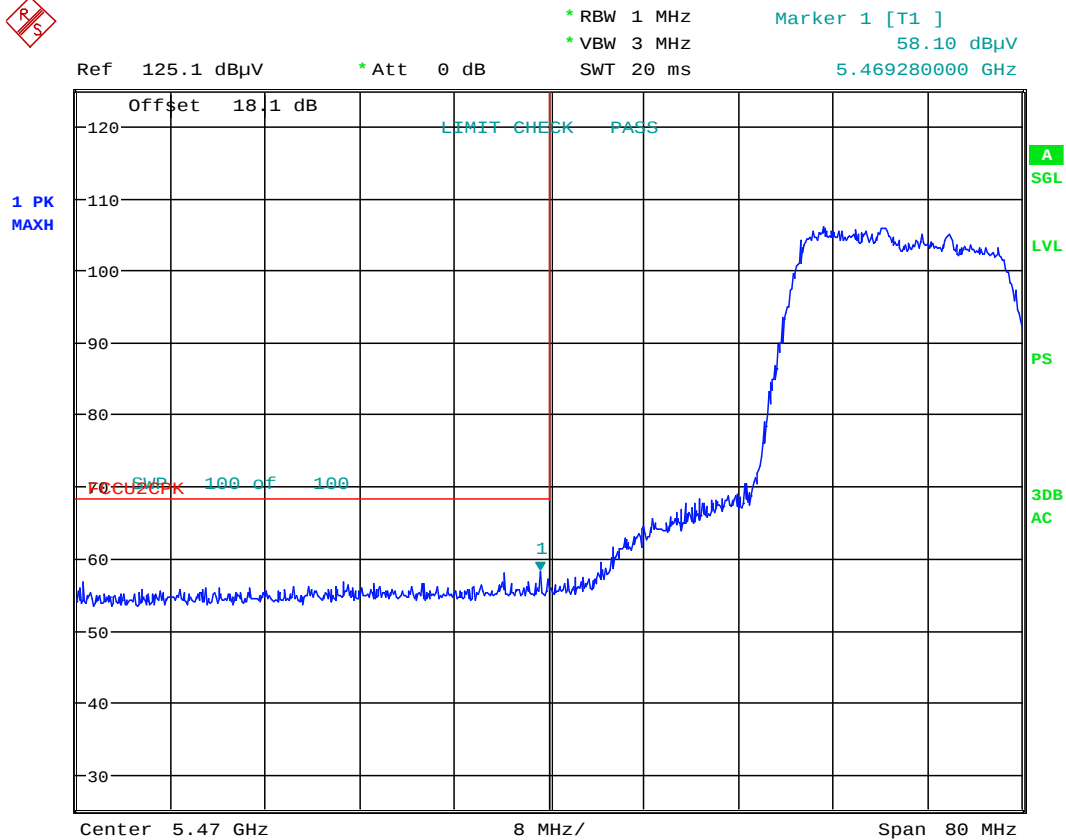


Date: 26.JAN.2015 12:13:17

Plot 6-219. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 182 of 211

MIMO Radiated Band Edge Measurements (20MHz BW) \$15.407(b.1)(b.2) \$15.205 \$15.209



Date: 26.JAN.2015 12:25:46

Plot 6-220. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 183 of 211

MIMO Radiated Band Edge Measurements (20MHz BW) \$15.407(b.1)(b.2) \$15.205 \$15.209

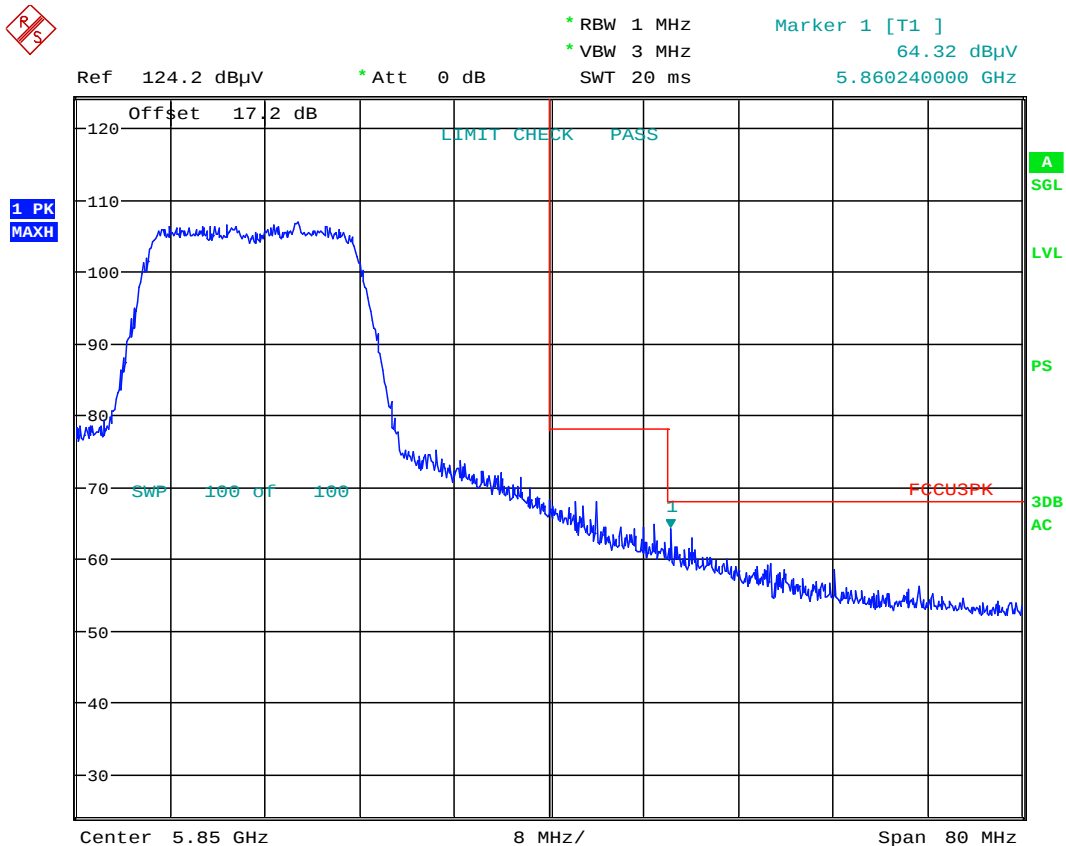
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5825MHz

Channel: 165



Date: 7.FEB.2015 00:22:30

Plot 6-221. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 184 of 211

6.7.10 MIMO Radiated Band Edge Measurements (40MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

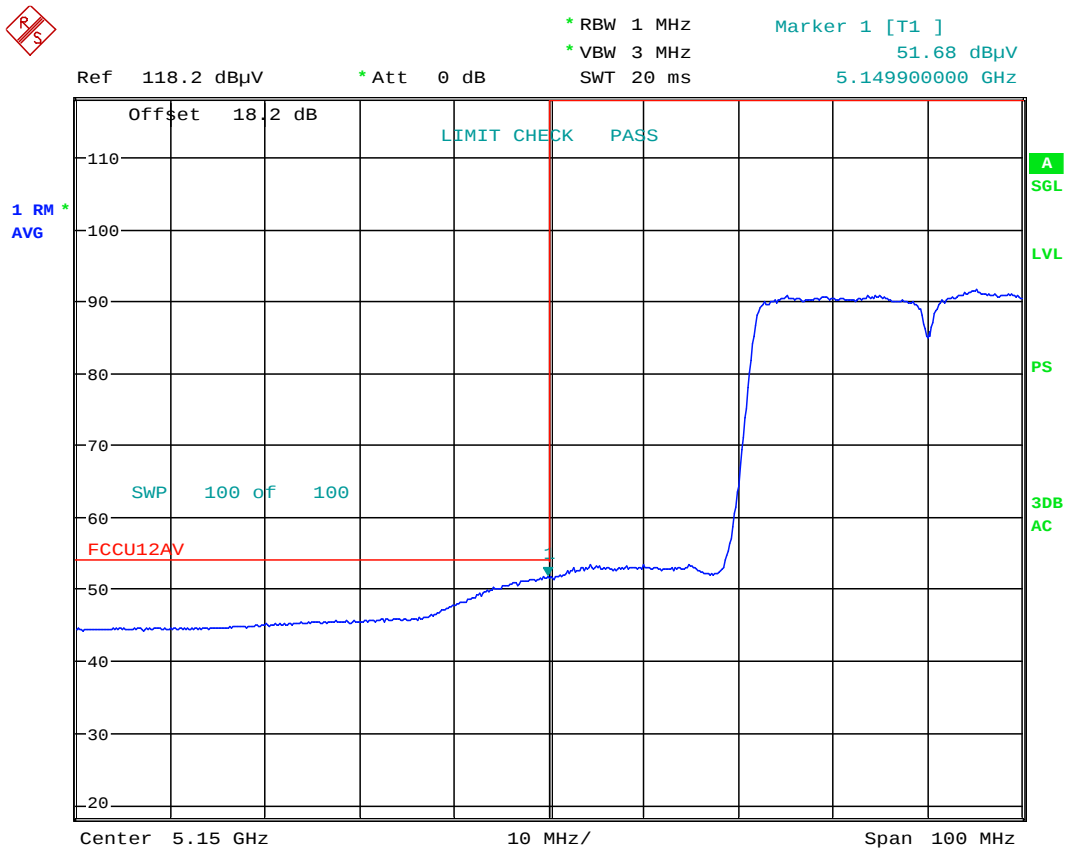
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38



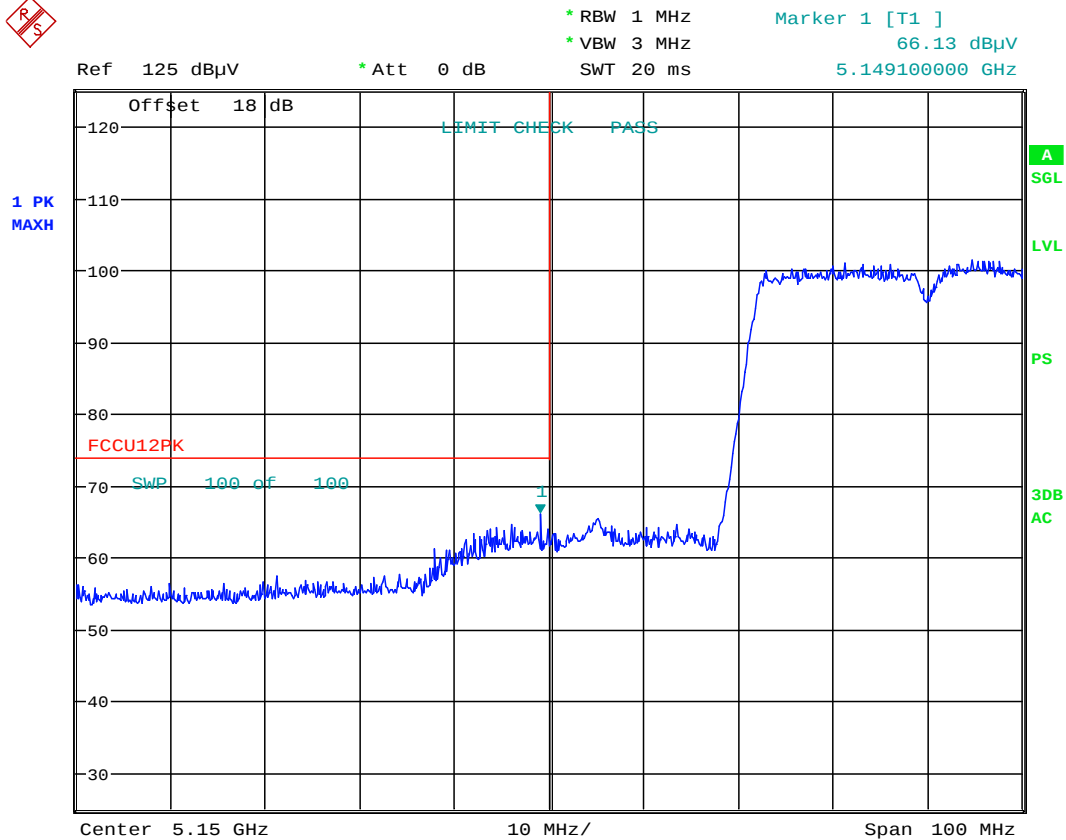
Date: 26.JAN.2015 12:39:17

Plot 6-222. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 185 of 211

MIMO Radiated Band Edge Measurements (40MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209



Date: 26.JAN.2015 12:44:57

Plot 6-223. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 186 of 211

MIMO Radiated Band Edge Measurements (40MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

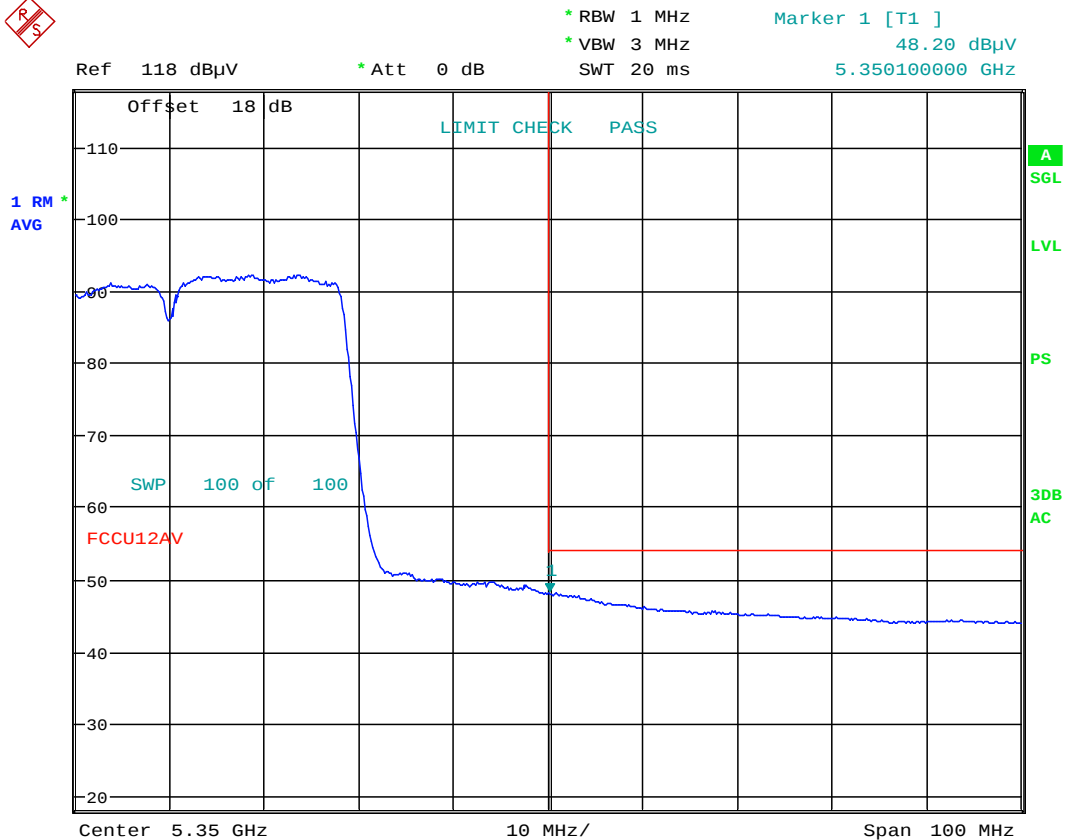
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62



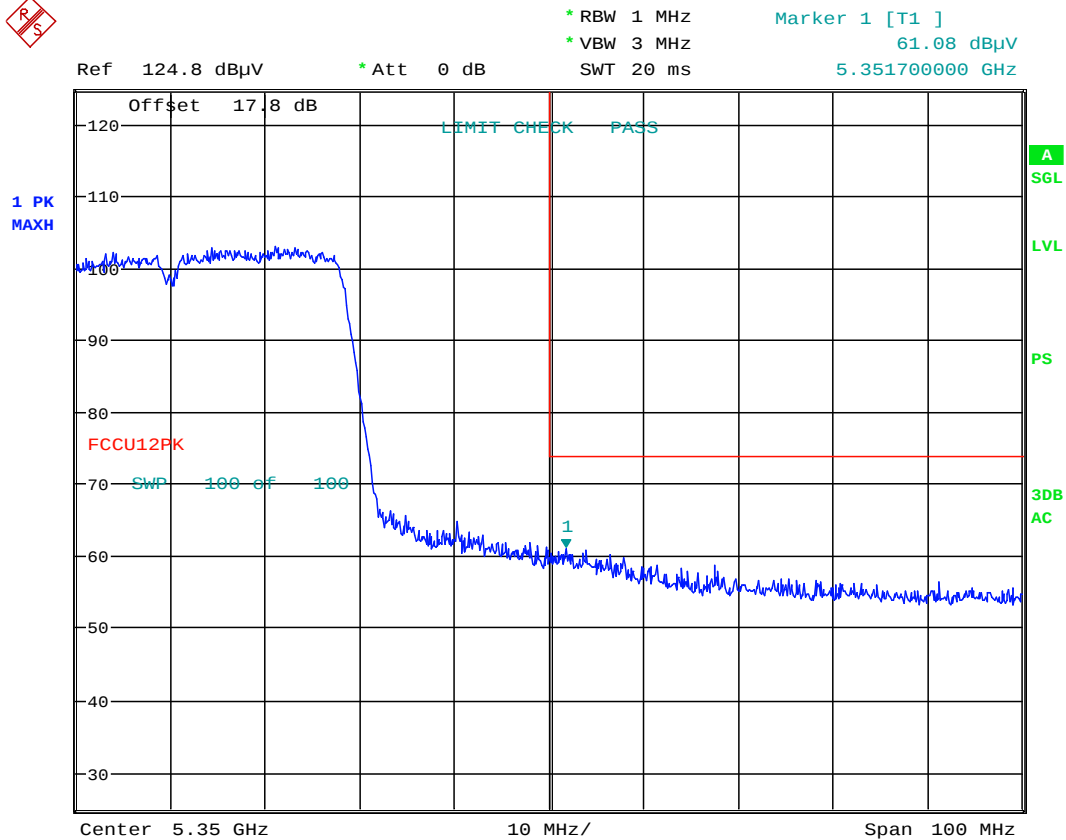
Date: 26.JAN.2015 11:53:09

Plot 6-224. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 187 of 211

MIMO Radiated Band Edge Measurements (40MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209



Date: 26.JAN.2015 12:05:17

Plot 6-225. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 188 of 211

MIMO Radiated Band Edge Measurements (40MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

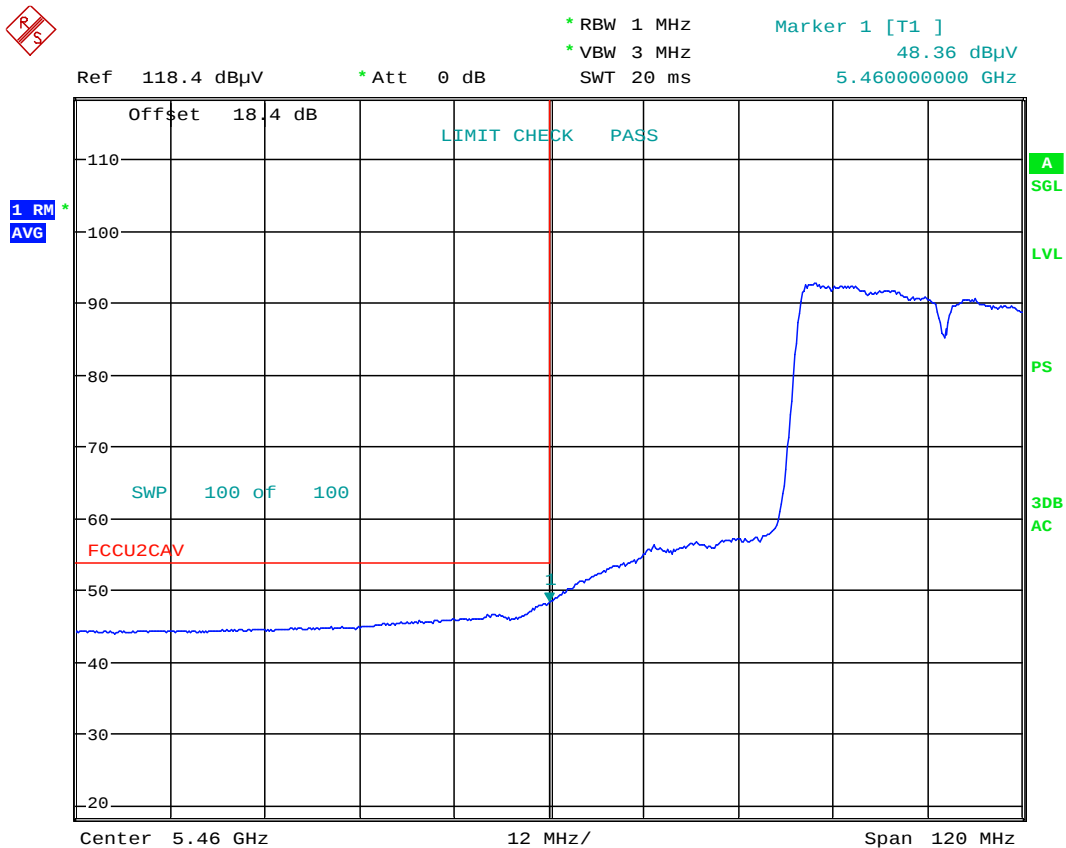
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102



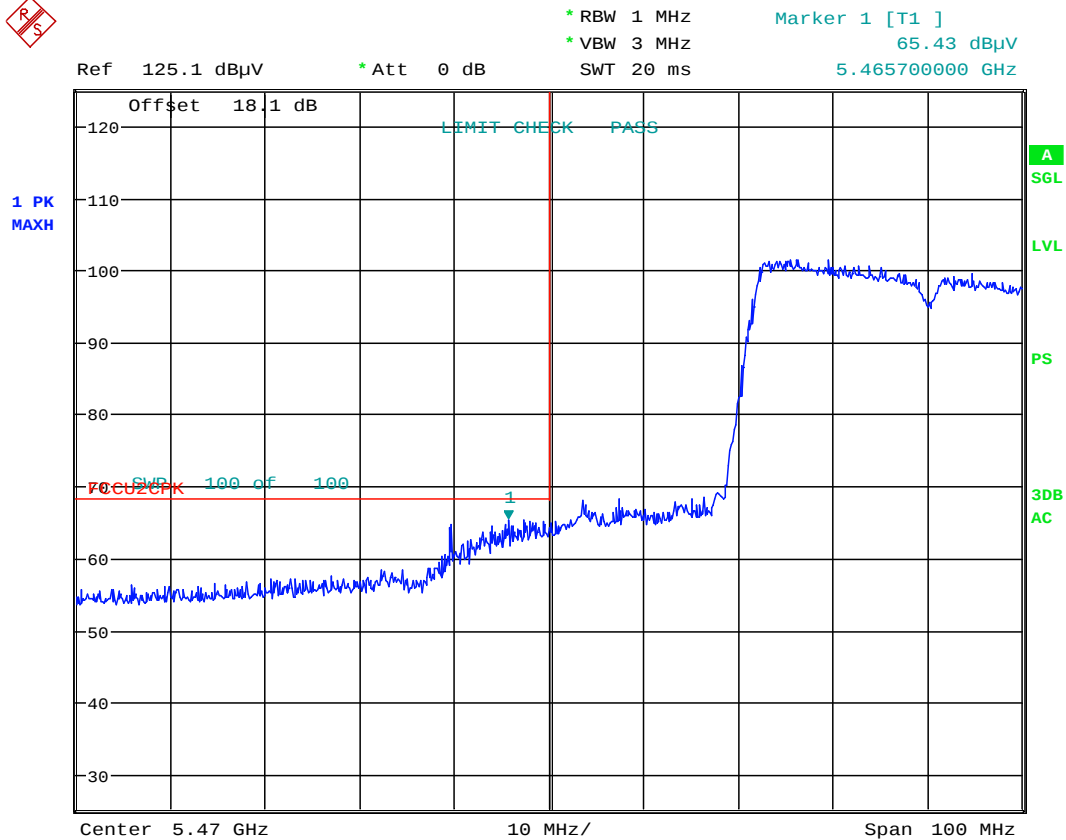
Date: 26.JAN.2015 12:15:50

Plot 6-226. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 189 of 211

MIMO Radiated Band Edge Measurements (40MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209



Date: 26.JAN.2015 12:23:57

Plot 6-227. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 190 of 211

MIMO Radiated Band Edge Measurements (40MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

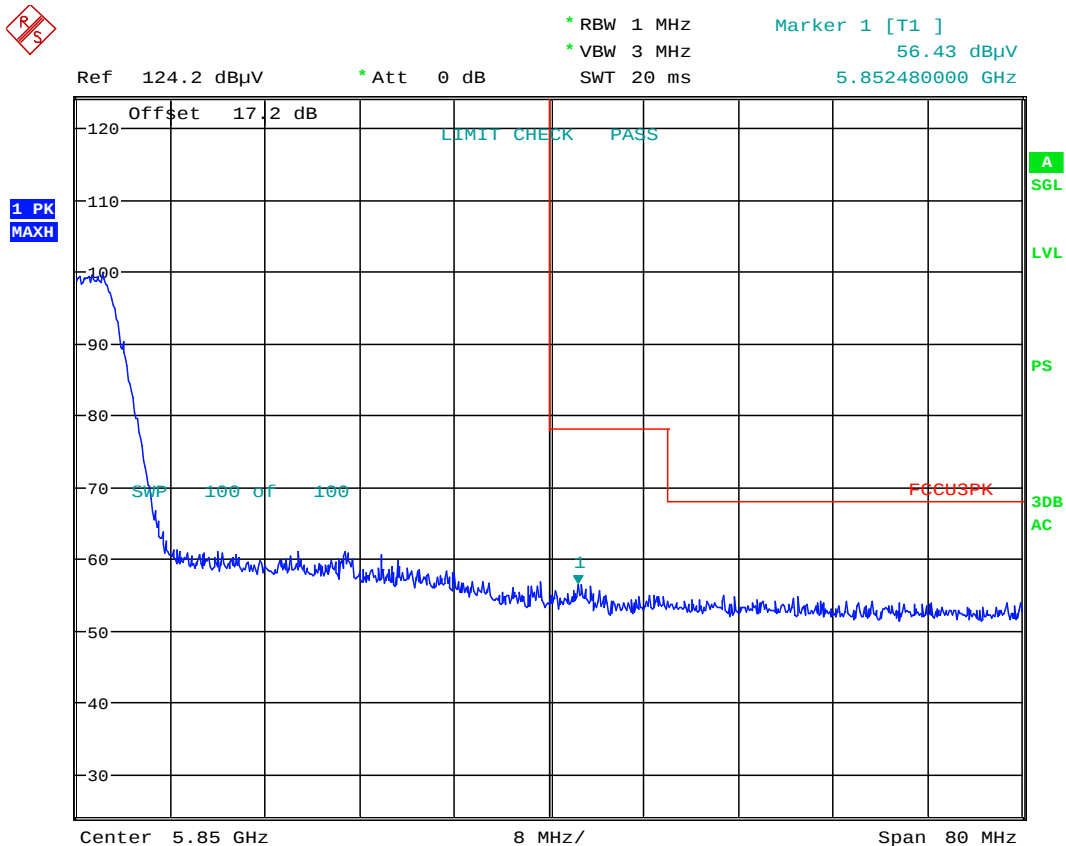
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5815MHz

Channel: 163



Date: 7.FEB.2015 00:23:52

Plot 6-228. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 191 of 211

6.7.11 MIMO Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

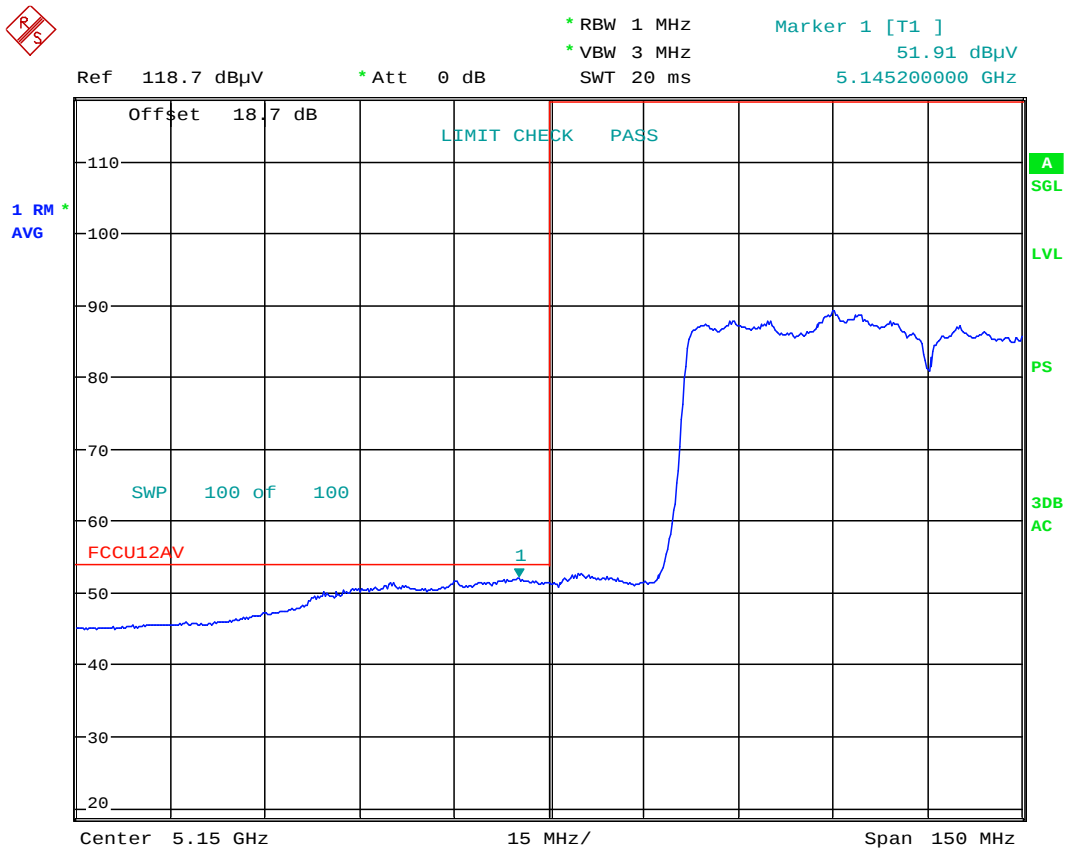
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42



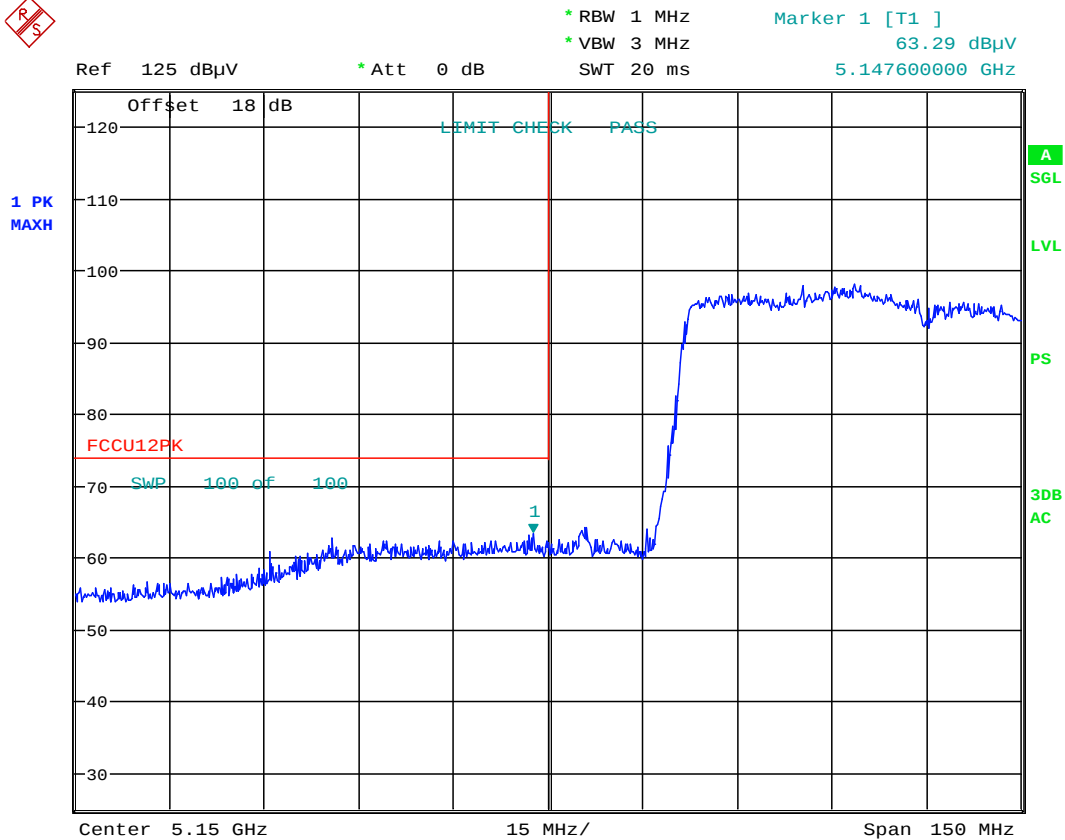
Date: 26.JAN.2015 12:41:58

Plot 6-229. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 192 of 211

MIMO Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209



Date: 26.JAN.2015 12:43:18

Plot 6-230. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 193 of 211

MIMO Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

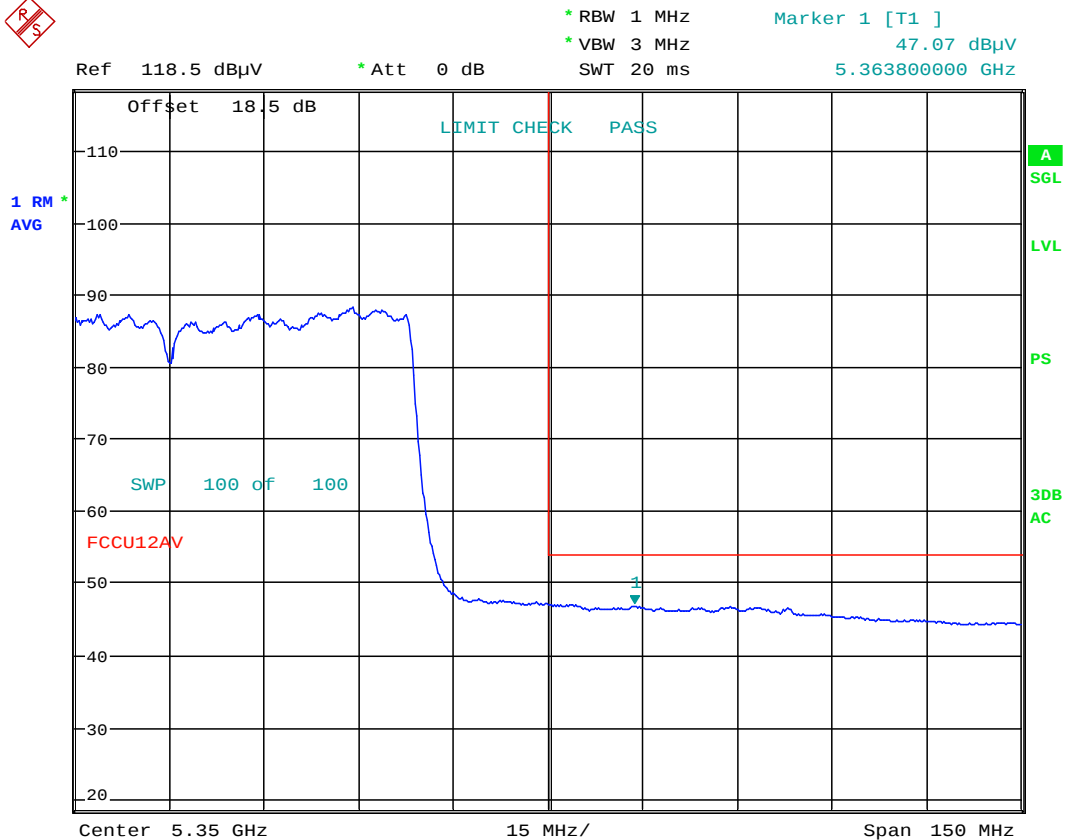
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58



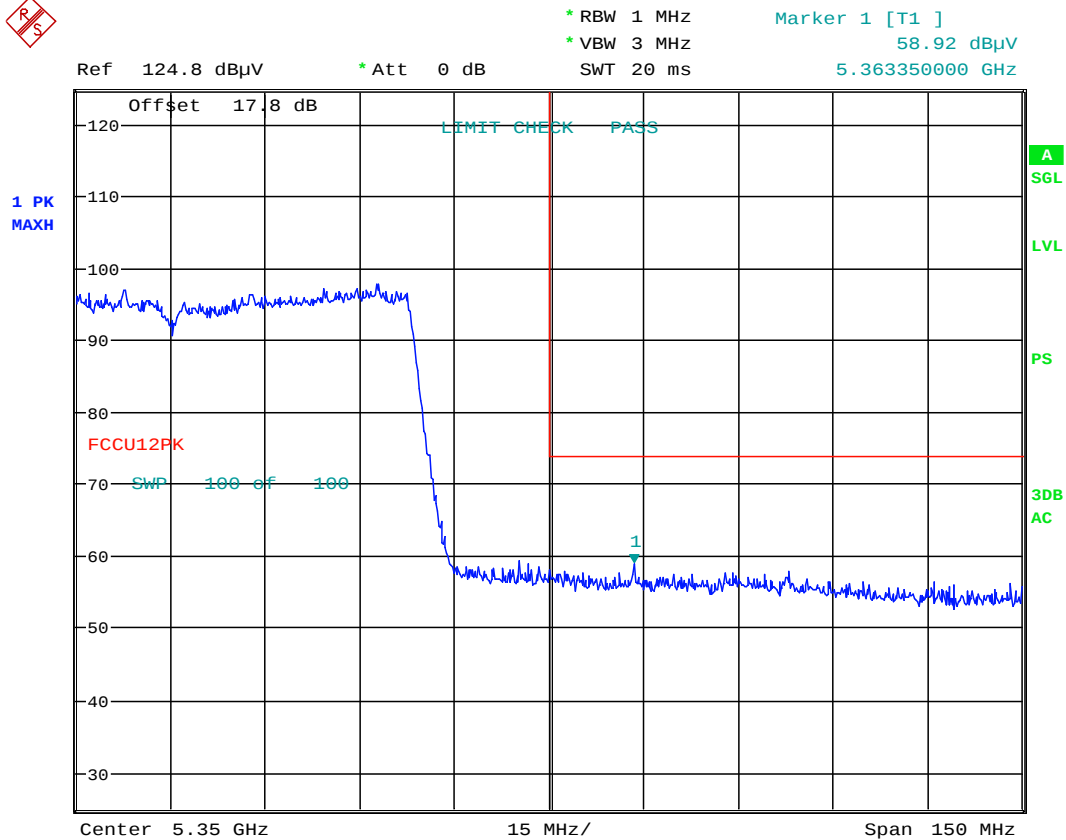
Date: 26.JAN.2015 12:00:36

Plot 6-231. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 194 of 211

MIMO Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209



Date: 26.JAN.2015 12:02:07

Plot 6-232. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 195 of 211

MIMO Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

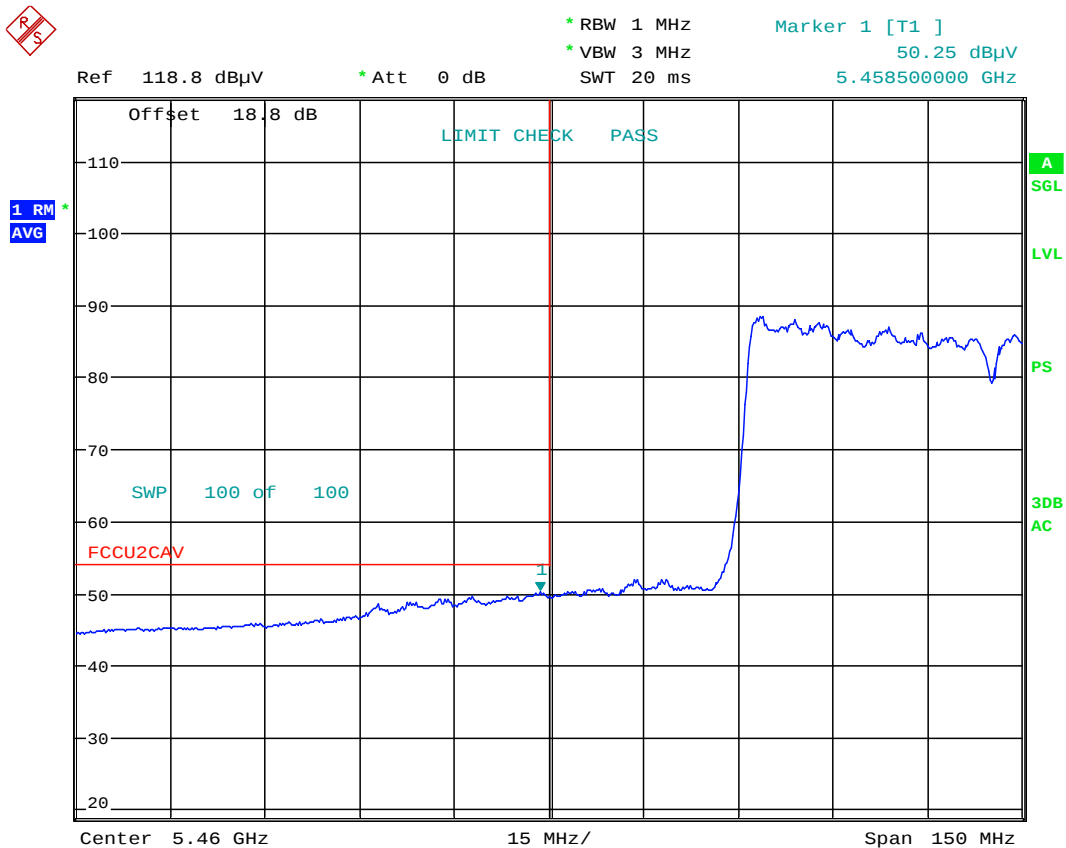
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5530MHz

Channel: 106



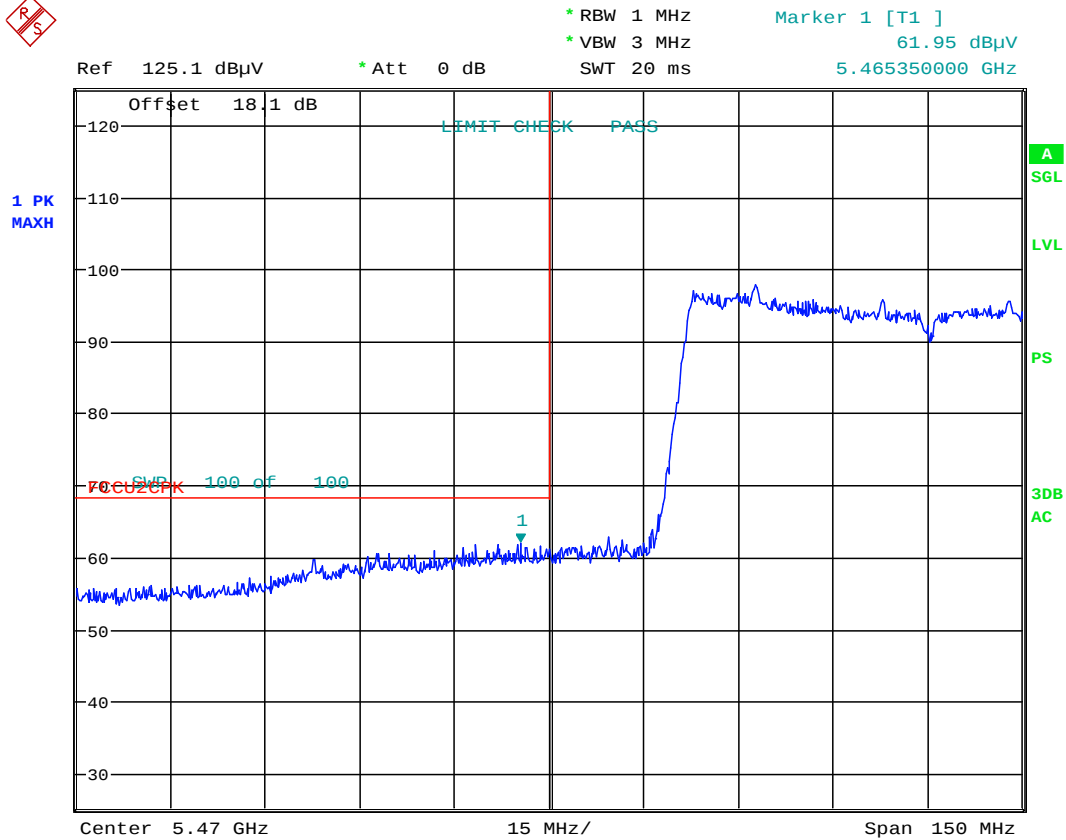
Date: 26.JAN.2015 12:19:57

Plot 6-233. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 196 of 211

MIMO Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209



Date: 26.JAN.2015 12:21:41

Plot 6-234. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 197 of 211

MIMO Radiated Band Edge Measurements (80MHz BW)

\$15.407(b.1)(b.2) \$15.205 \$15.209

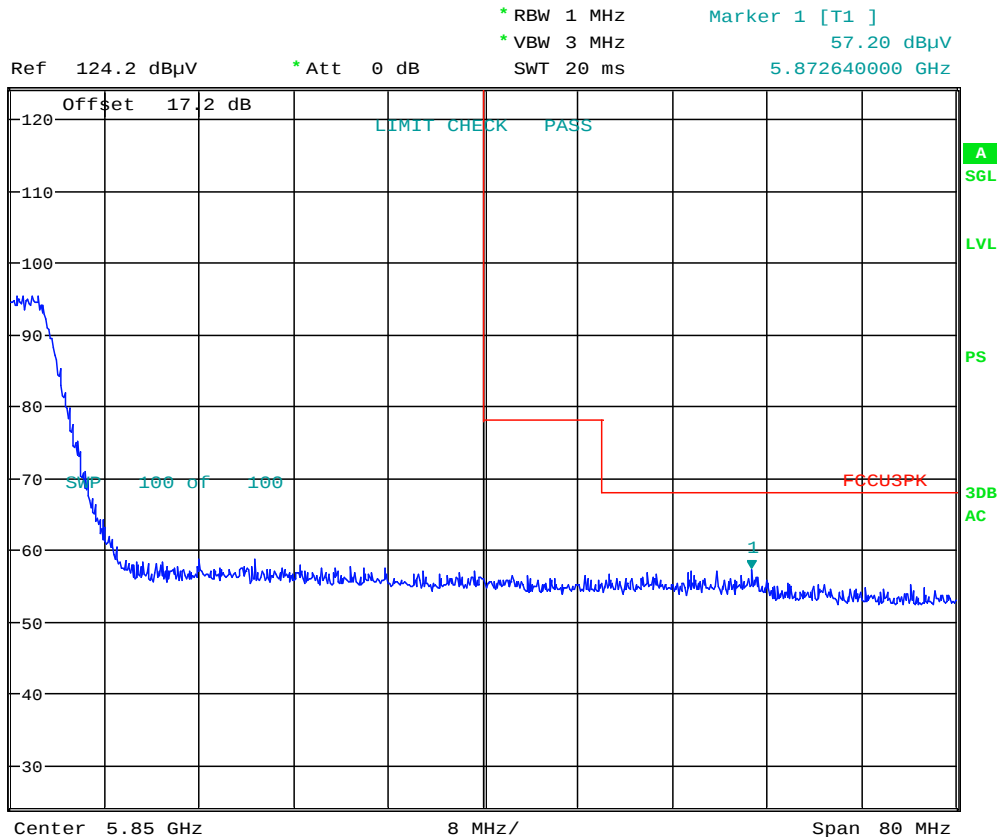
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5775MHz

Channel: 155



Date: 7.FEB.2015 00:25:12

Plot 6-235. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 198 of 211

6.8 Radiated Spurious Emissions Measurements – Below 1GHz

§15.209

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 must not exceed the limits shown in Table 6-58 per Section 15.209.

Frequency	Field Strength [μV/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 6-58. Radiated Limits

Test Procedures Used

ANSI C63.4-2009

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

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Test Setup

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

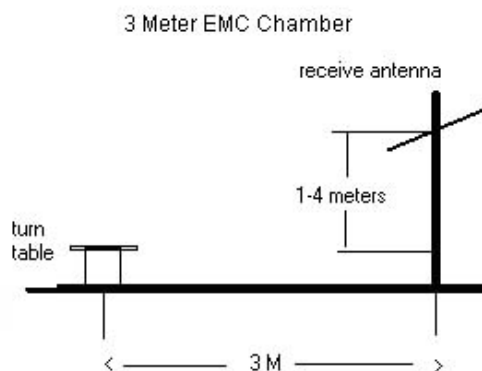


Figure 6-6. Test Instrument & Measurement Setup

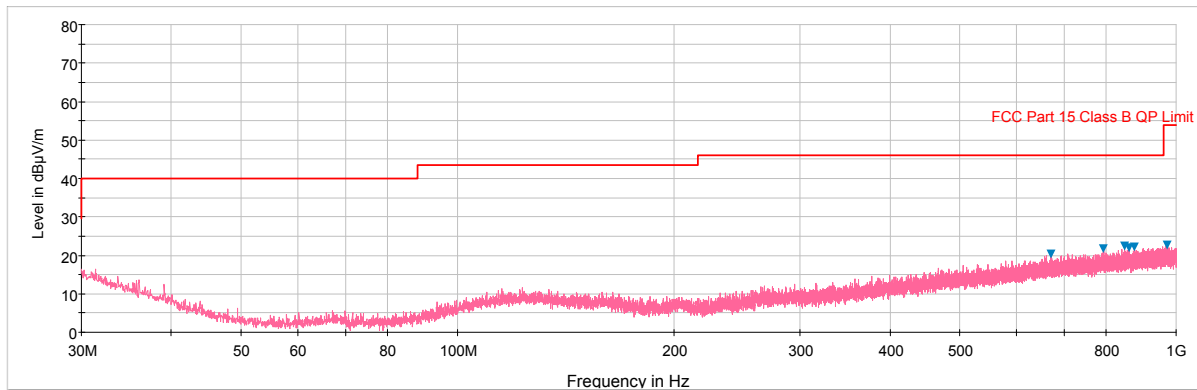
Test Notes

1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 6-10.
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.

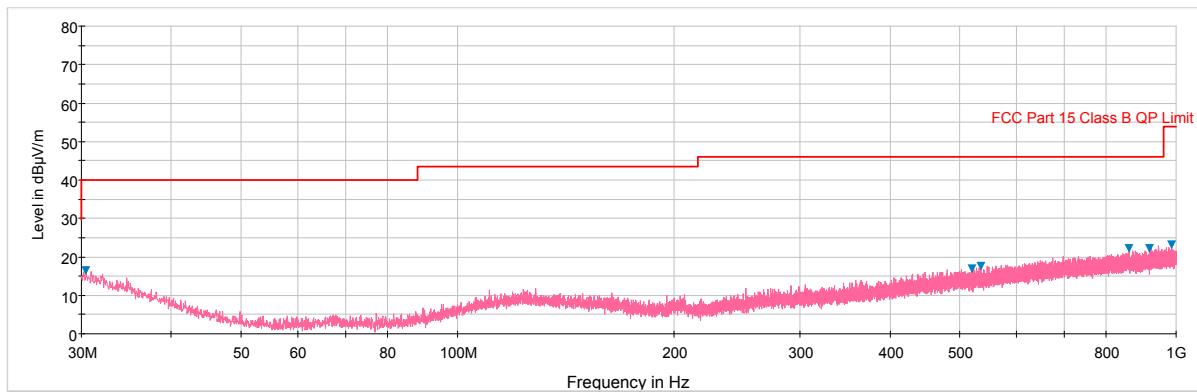
FCC ID: A3LSMG925R4		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Antenna-1 Radiated Spurious Emissions Measurements (Below 1GHz)

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Plot 6-236. Radiated Spurious Plot below 1GHz (802.11a – U3, Ant. Pol. H)

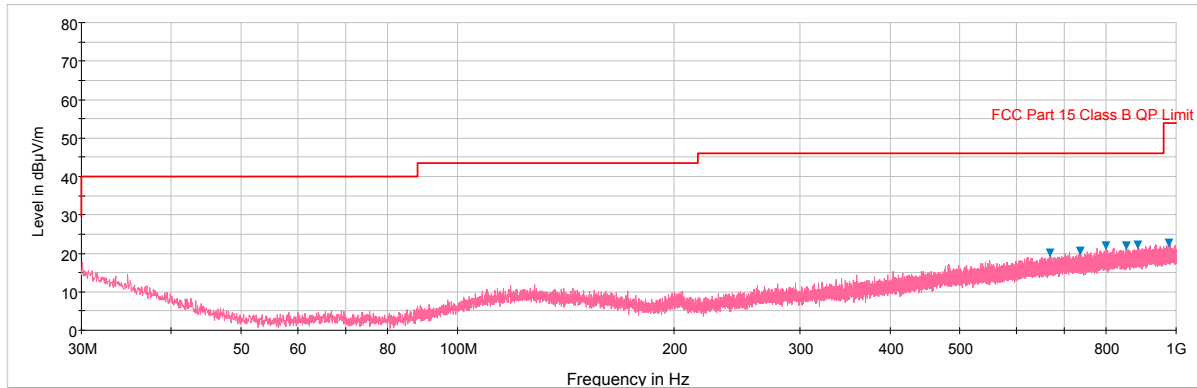


Plot 6-237. Radiated Spurious Plot below 1GHz (802.11a – U3, Ant. Pol. V)

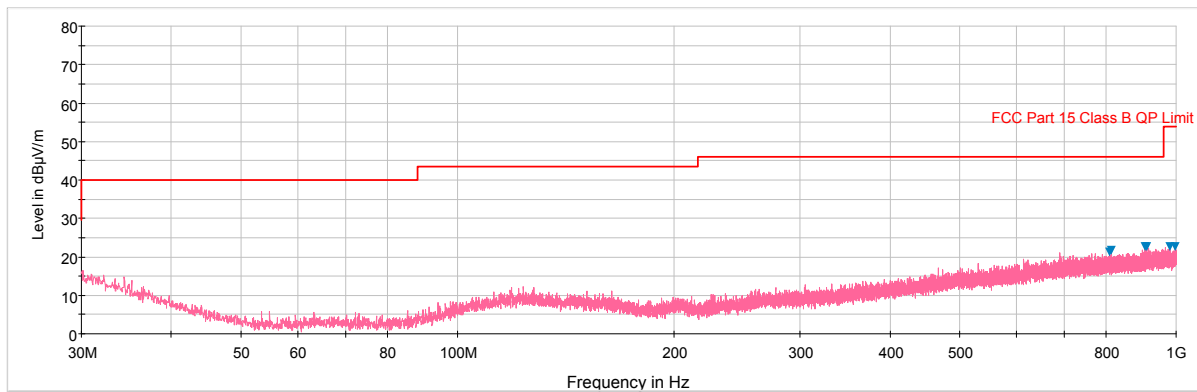
FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Antenna-2 Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209



Plot 6-238. Radiated Spurious Plot below 1GHz (802.11a – U3, Ant. Pol. H)

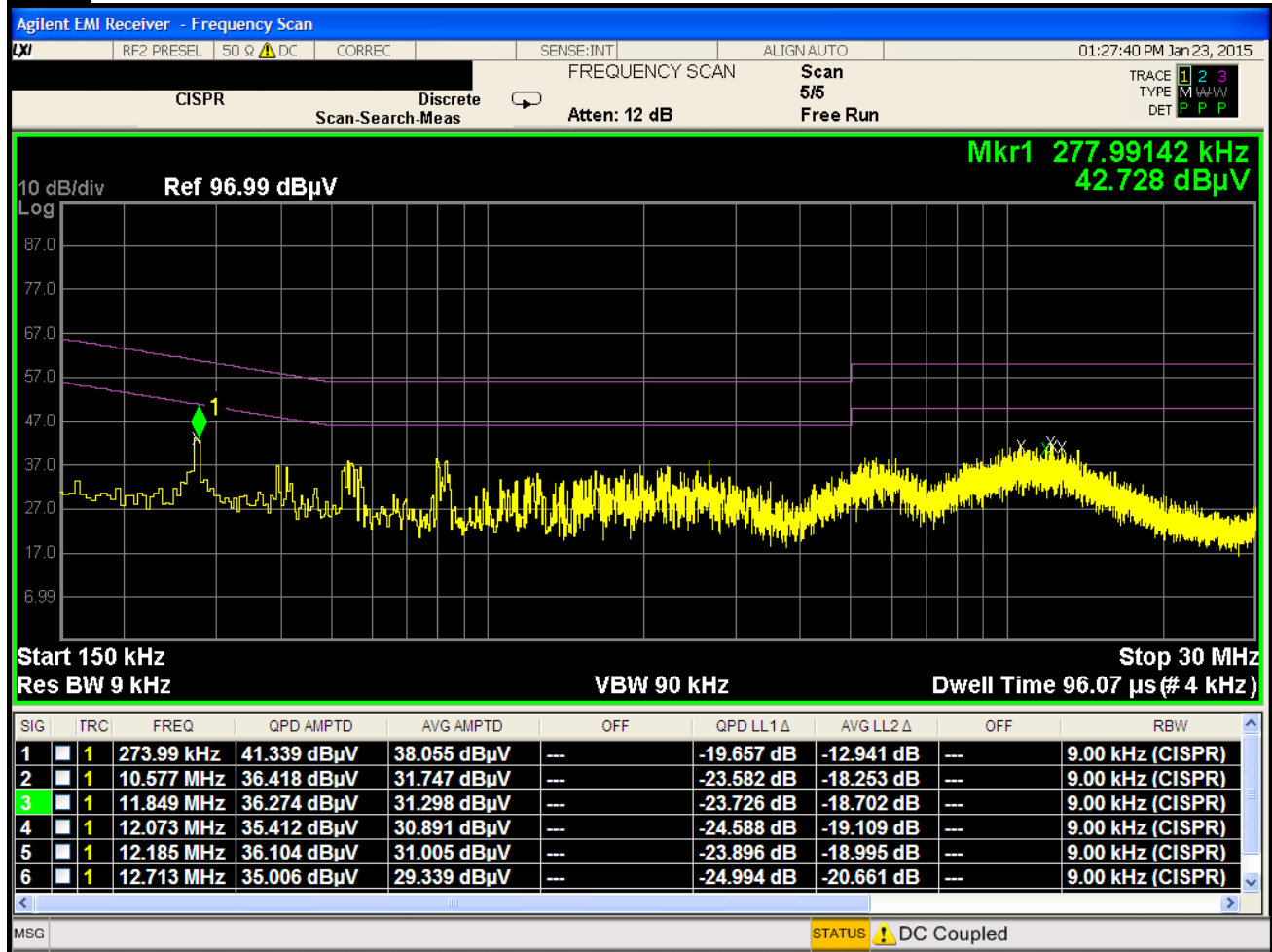


Plot 6-239. Radiated Spurious Plot below 1GHz (802.11a – U3, Ant. Pol. V)

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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6.9 Line-Conducted Test Data

\$15.407



Plot 6-240. Line Conducted Plot with 802.11a UNII Band 1 (L1)

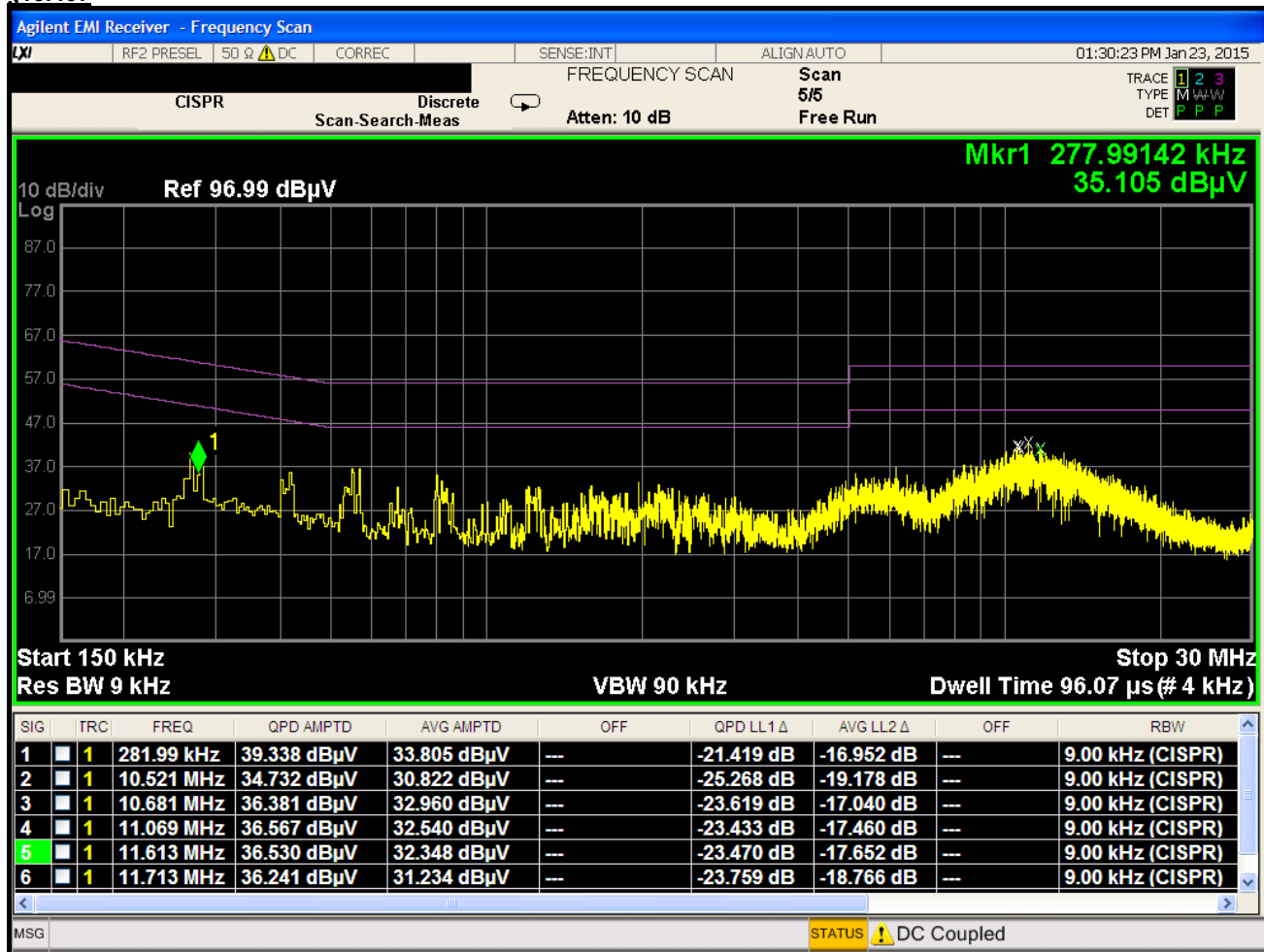
Notes:

- All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 36. The emissions found were not affected by the choice of channel used during testing.
- The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
- L1 = Phase; N = Neutral
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
- Margin (dB) = QP/AVLimit (dBμV) - QP/AV Level (dBμV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

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Line-Conducted Test Data

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Plot 6-241. Line Conducted Plot with 802.11a UNII Band 1 (N)

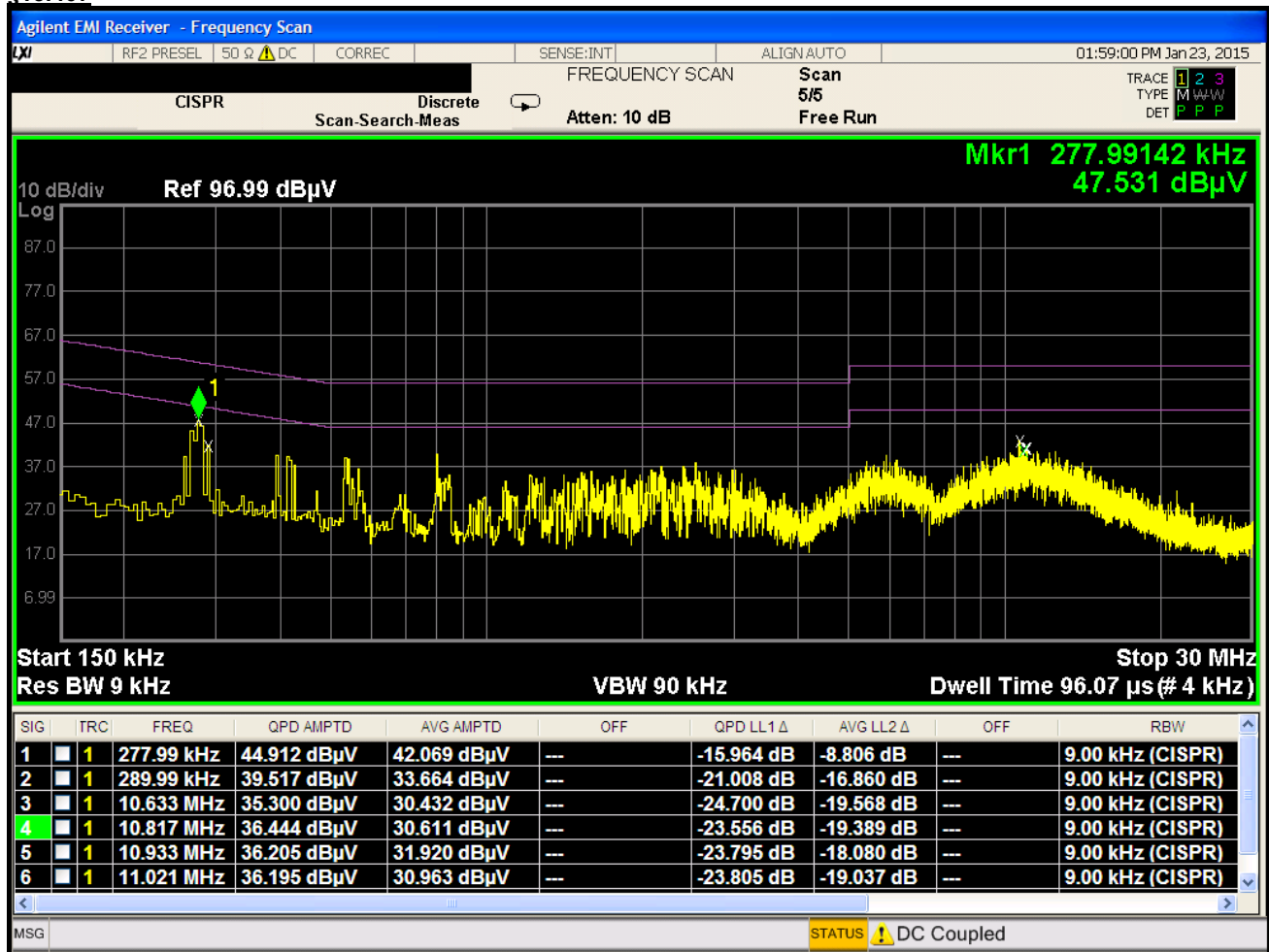
Notes:

- All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 36. The emissions found were not affected by the choice of channel used during testing.
- The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
- L1 = Phase; N = Neutral
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
- Margin (dB) = QP/AVLimit (dBμV) - QP/AV Level (dBμV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

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Line-Conducted Test Data

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Plot 6-242. Line Conducted Plot with 802.11a UNII Band 2A (L1)

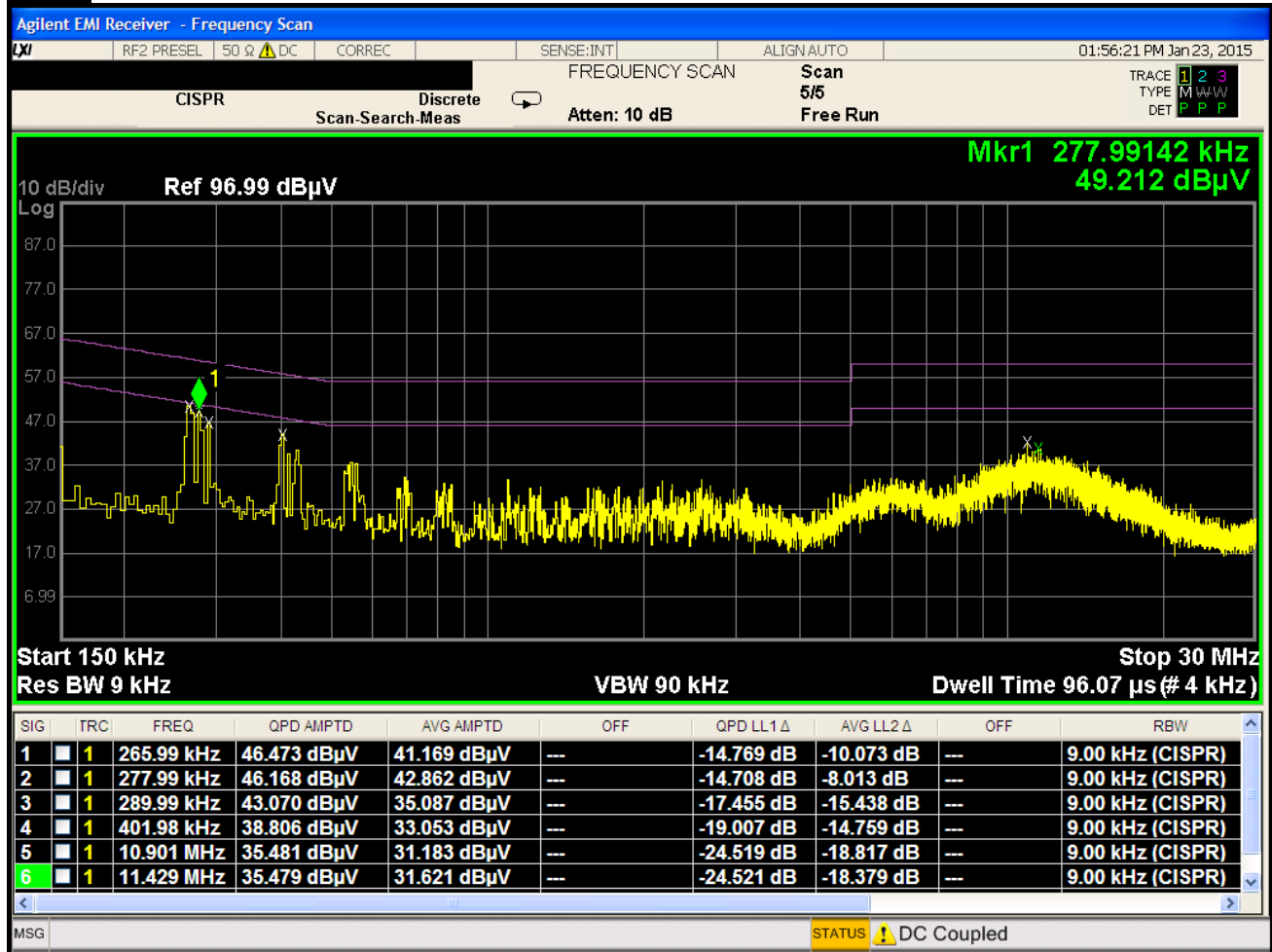
Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 52. The emissions found were not affected by the choice of channel used during testing.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. L1 = Phase; N = Neutral
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
6. Margin (dB) = QP/AVLimit (dBμV) - QP/AV Level (dBμV)
7. Traces shown in plot are made using a peak detector.
8. Deviations to the Specifications: None.

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Line-Conducted Test Data

\$15.407



Plot 6-243. Line Conducted Plot with 802.11a UNII Band 2A (N)

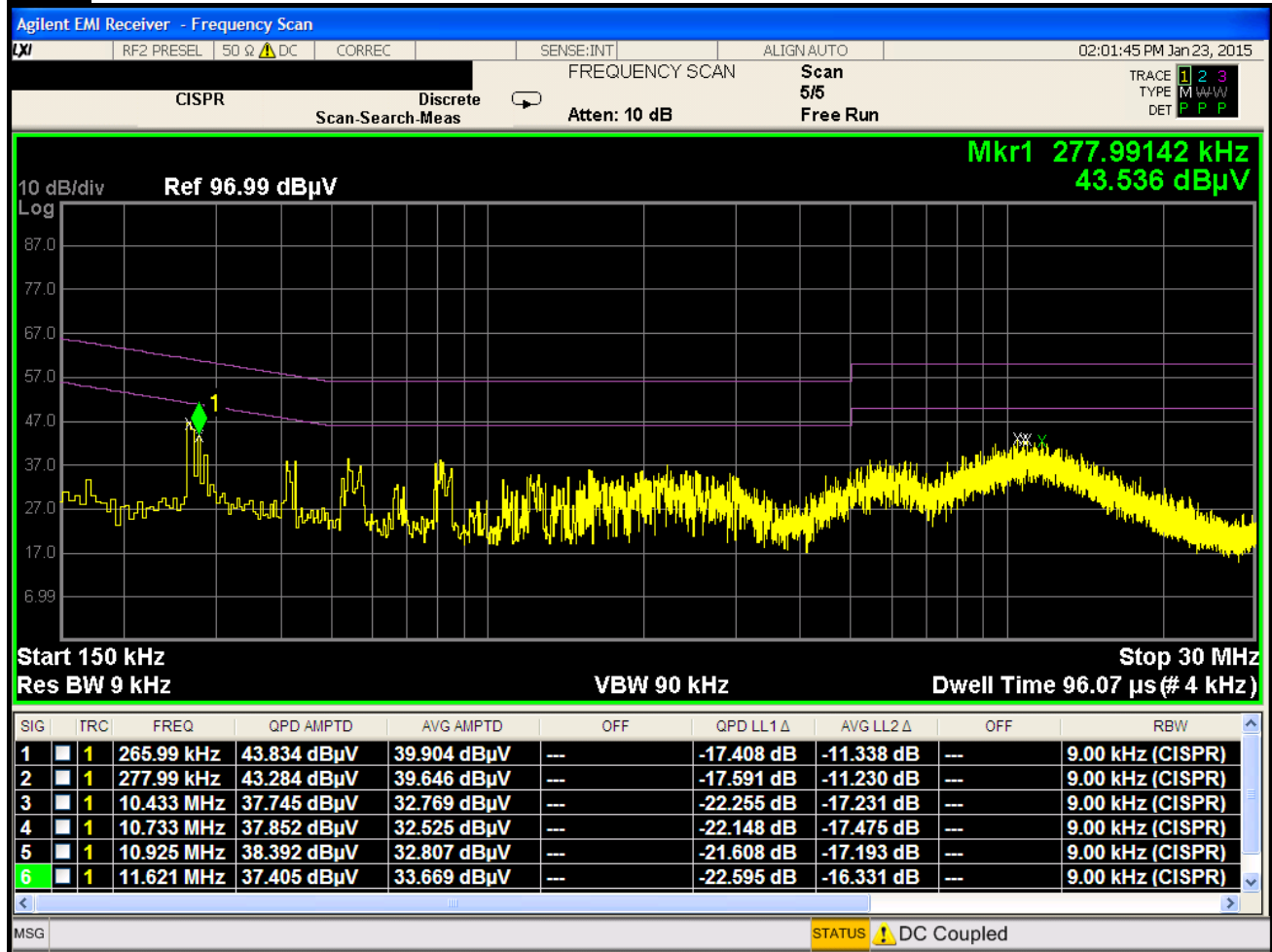
Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 52. The emissions found were not affected by the choice of channel used during testing.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. L1 = Phase; N = Neutral
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
6. Margin (dB) = QP/AVLimit (dBμV) - QP/AV Level (dBμV)
7. Traces shown in plot are made using a peak detector.
8. Deviations to the Specifications: None.

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Line-Conducted Test Data

\$15.407



Plot 6-244. Line Conducted Plot with 802.11a UNII Band 2C (L1)

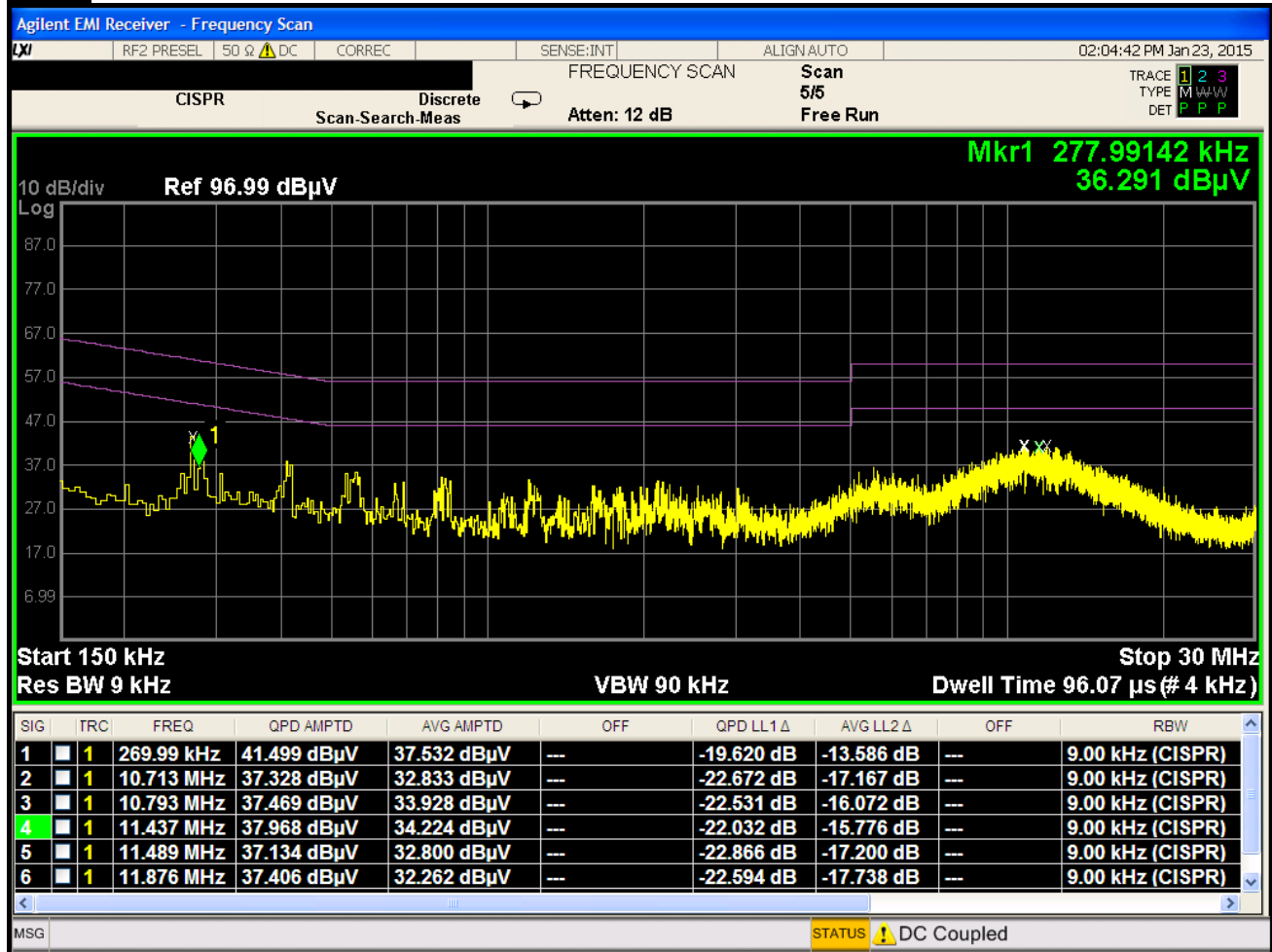
Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 100. The emissions found were not affected by the choice of channel used during testing.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. L1 = Phase; N = Neutral
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
6. Margin (dB) = QP/AVLimit (dBμV) - QP/AV Level (dBμV)
7. Traces shown in plot are made using a peak detector.
8. Deviations to the Specifications: None.

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Line-Conducted Test Data

\$15.407



Plot 6-245. Line Conducted Plot with 802.11a UNII Band 2C (N)

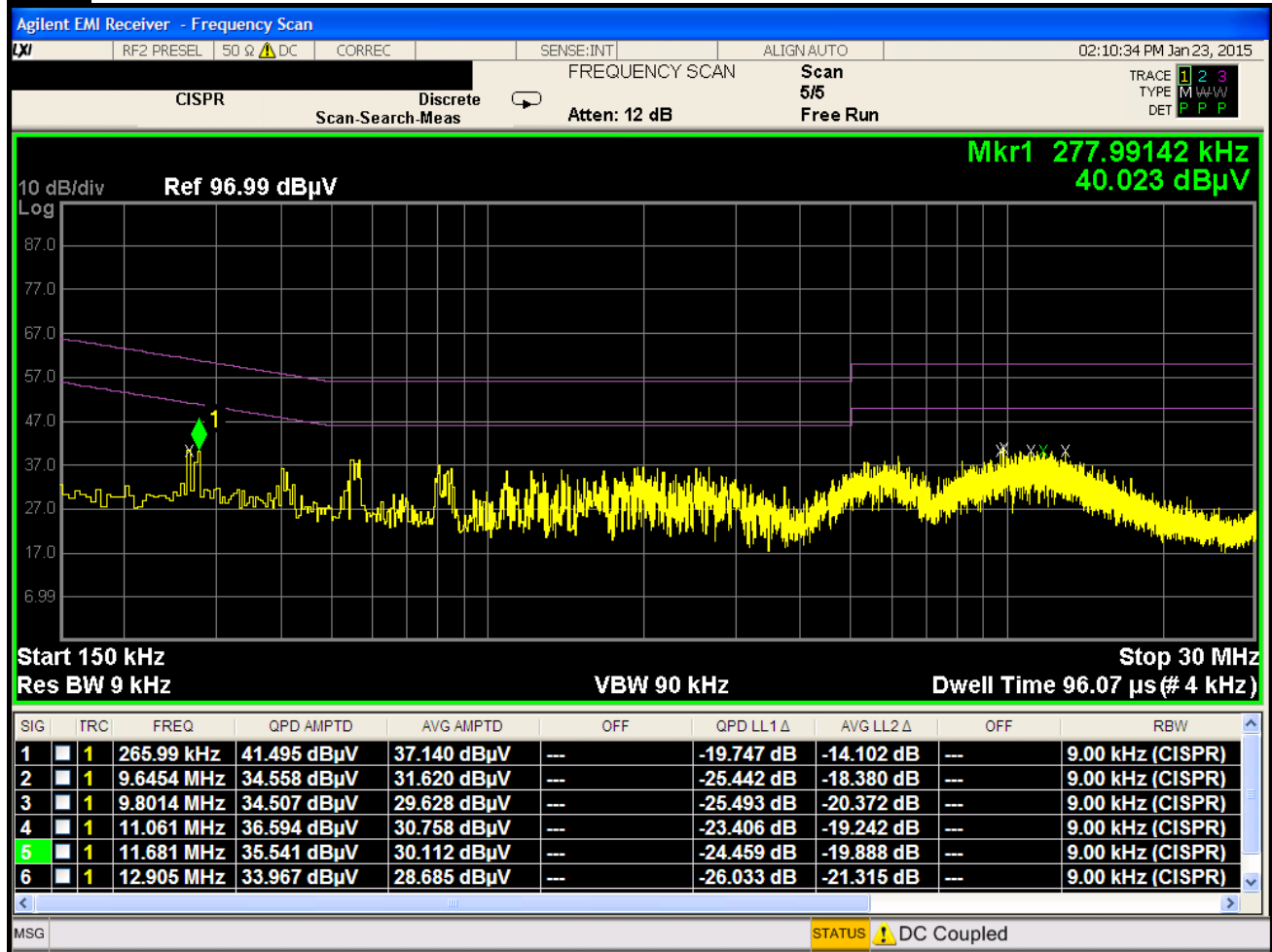
Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 100. The emissions found were not affected by the choice of channel used during testing.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. L1 = Phase; N = Neutral
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
6. Margin (dB) = QP/AVLimit (dBμV) - QP/AV Level (dBμV)
7. Traces shown in plot are made using a peak detector.
8. Deviations to the Specifications: None.

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Line-Conducted Test Data

\$15.407



Plot 6-246. Line Conducted Plot with 802.11a UNII Band 3 (L1)

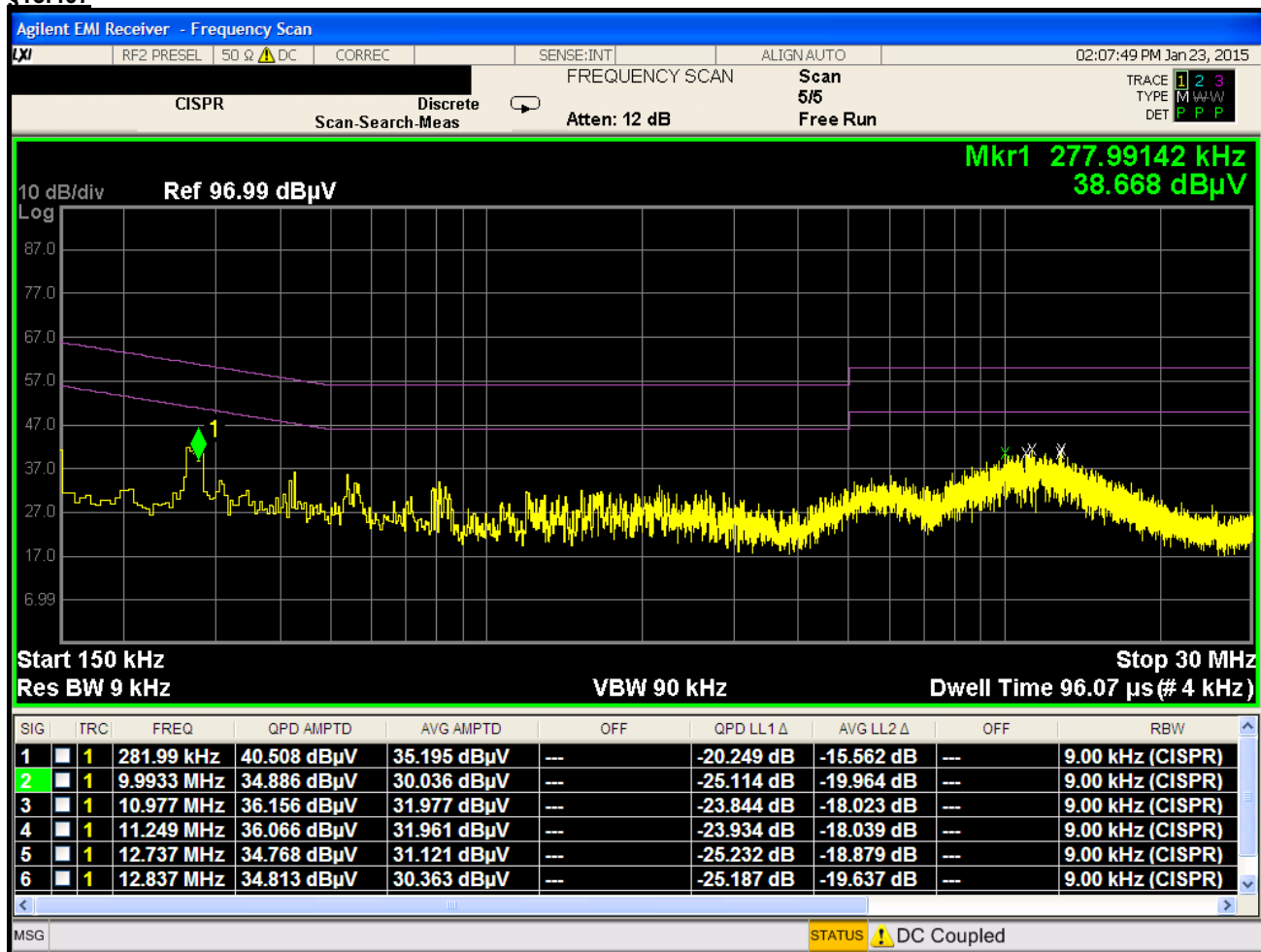
Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 149. The emissions found were not affected by the choice of channel used during testing.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. L1 = Phase; N = Neutral
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
6. Margin (dB) = QP/AVLimit (dBμV) - QP/AV Level (dBμV)
7. Traces shown in plot are made using a peak detector.
8. Deviations to the Specifications: None.

FCC ID: A3LSMG925R4	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Line-Conducted Test Data

\$15.407



Plot 6-247. Line Conducted Plot with 802.11a UNII Band 3 (N)

Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 149. The emissions found were not affected by the choice of channel used during testing.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. L1 = Phase; N = Neutral
4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Corr. (dB)
6. Margin (dB) = QP/AVLimit (dBμV) - QP/AV Level (dBμV)
7. Traces shown in plot are made using a peak detector.
8. Deviations to the Specifications: None.

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7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMG925R4** is in compliance with Part 15E of the FCC Rules.

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Test Report S/N: 0Y1502030355.A3L	Test Dates: 1/20 – 2/12/2015, 3/2-3/3/2015	EUT Type: Portable Handset		Page 211 of 211