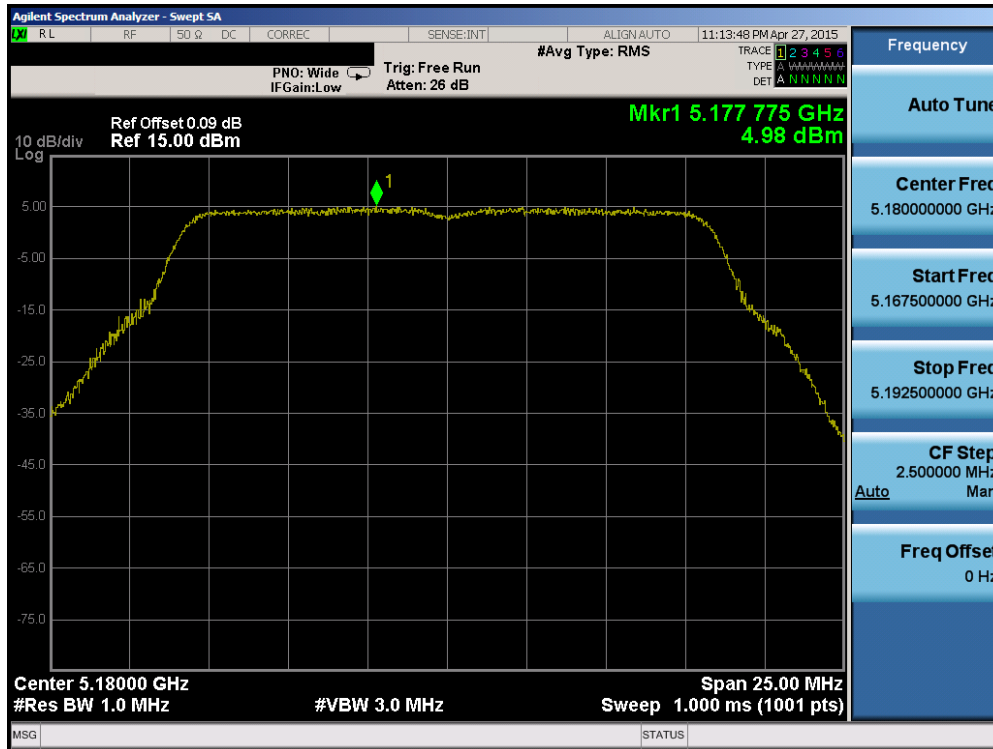


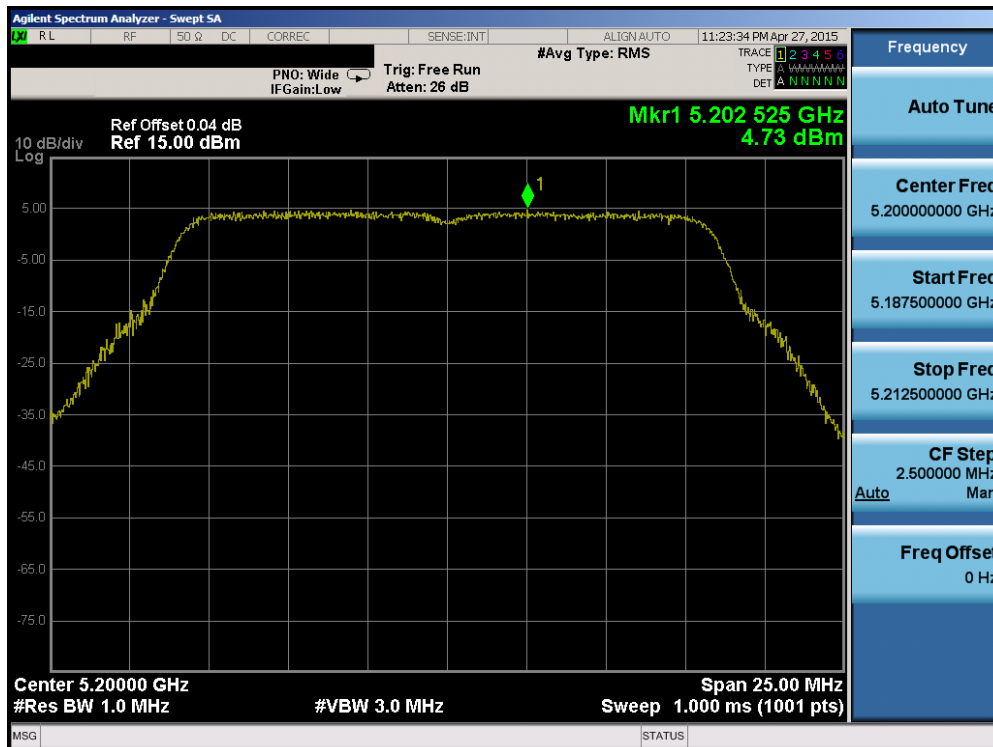
Antenna-2 Power Spectral Density Measurements

	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	4.98	11.0	-6.02	Pass
	5200	40	a	6	4.73	11.0	-6.27	Pass
	5240	48	a	6	4.64	11.0	-6.36	Pass
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	3.73	11.0	-7.27	Pass
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	3.79	11.0	-7.21	Pass
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	3.37	11.0	-7.63	Pass
	5190	38	n (40MHz)	13.5/15 (MCS0)	-0.57	11.0	-11.57	Pass
	5230	46	n (40MHz)	13.5/15 (MCS0)	-0.65	11.0	-11.65	Pass
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-4.09	11.0	-15.09	Pass
Band 2A	5260	52	a	6	4.57	11.0	-6.43	Pass
	5280	56	a	6	4.40	11.0	-6.61	Pass
	5320	64	a	6	3.50	11.0	-7.50	Pass
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	3.40	11.0	-7.61	Pass
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	3.27	11.0	-7.74	Pass
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	2.34	11.0	-8.66	Pass
	5270	54	n (40MHz)	13.5/15 (MCS0)	-1.15	11.0	-12.15	Pass
	5310	62	n (40MHz)	13.5/15 (MCS0)	-1.79	11.0	-12.79	Pass
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-5.00	11.0	-16.00	Pass
Band 2C	5500	100	a	6	3.57	11.0	-7.43	Pass
	5580	116	a	6	3.94	11.0	-7.06	Pass
	5720	144	a	6	3.64	11.0	-7.36	Pass
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	2.74	11.0	-8.26	Pass
	5580	116	n (20MHz)	6.5/7.2 (MCS0)	1.83	11.0	-9.17	Pass
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	2.56	11.0	-8.44	Pass
	5510	102	n (40MHz)	13.5/15 (MCS0)	-1.55	11.0	-12.55	Pass
	5550	110	n (40MHz)	13.5/15 (MCS0)	-2.22	11.0	-13.22	Pass
	5710	142	n (40MHz)	13.5/15 (MCS0)	-2.10	11.0	-13.10	Pass
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-5.52	11.0	-16.52	Pass
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-5.36	11.0	-16.36	Pass

Table 6-19. Conducted Power Spectral Density Measurements

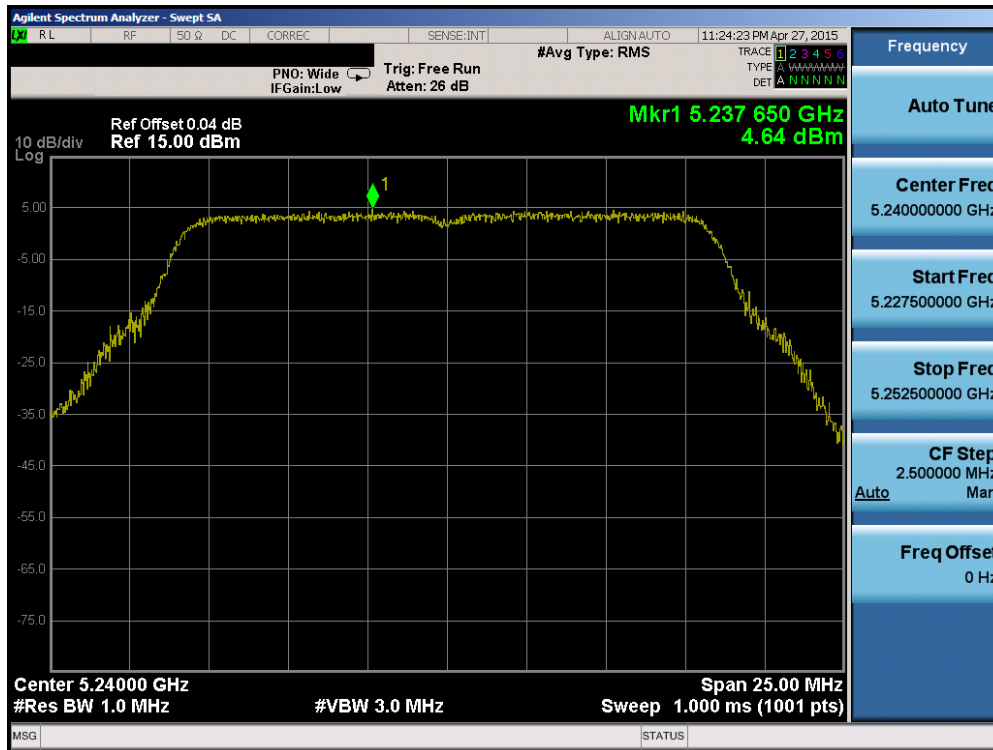


Plot 6-115. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 36)

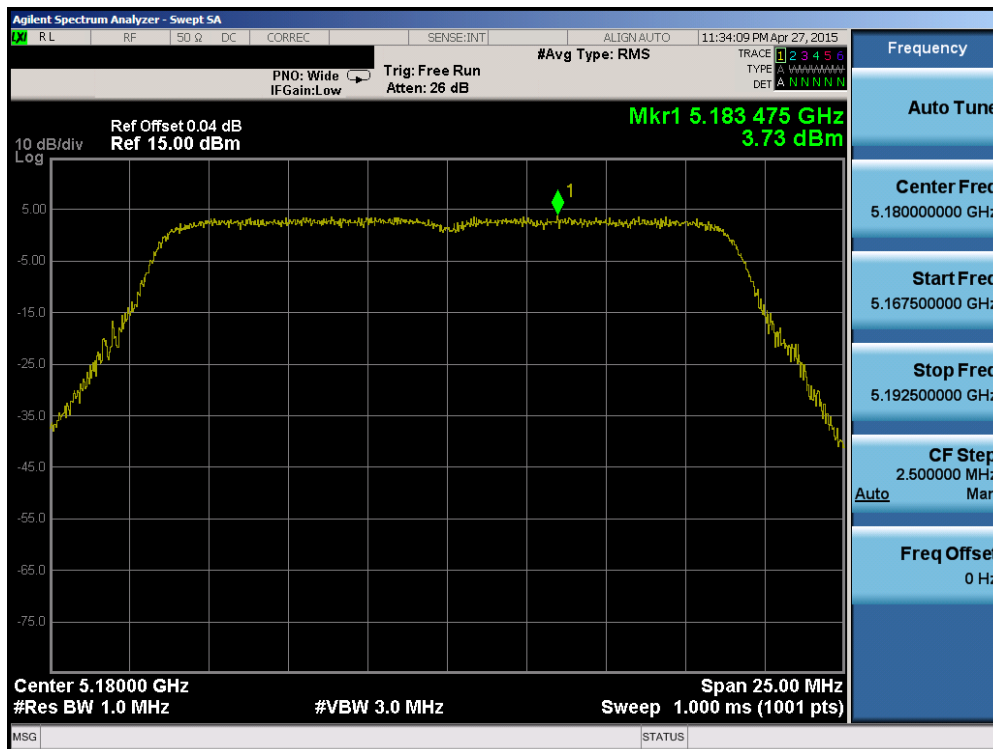


Plot 6-116. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 40)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 87 of 212

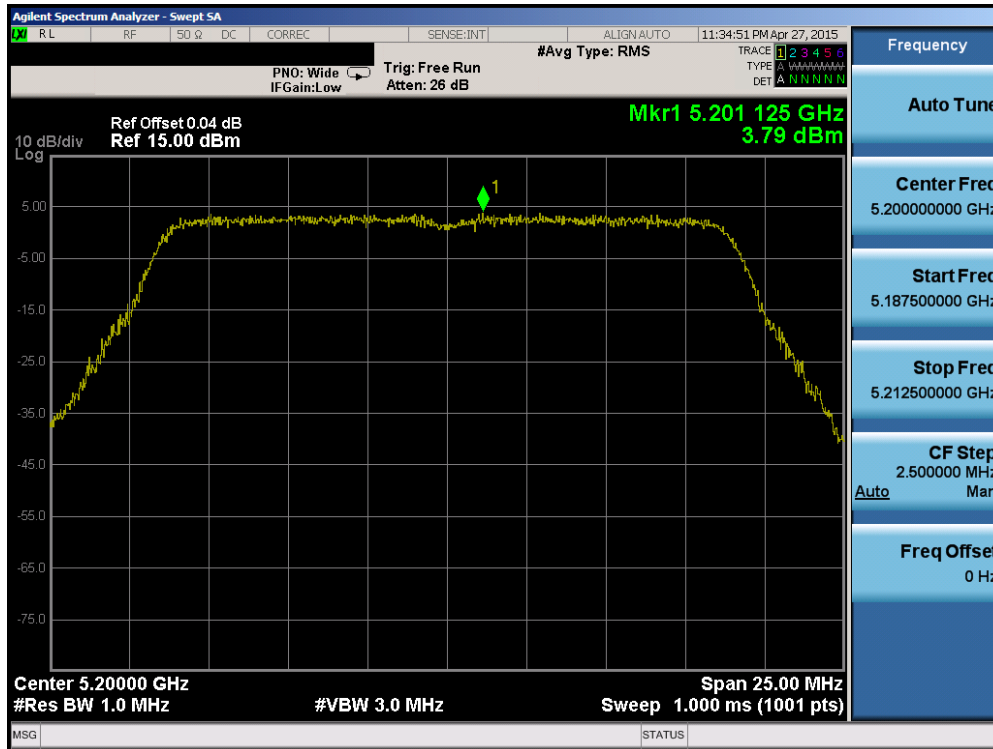


Plot 6-117. Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 48)

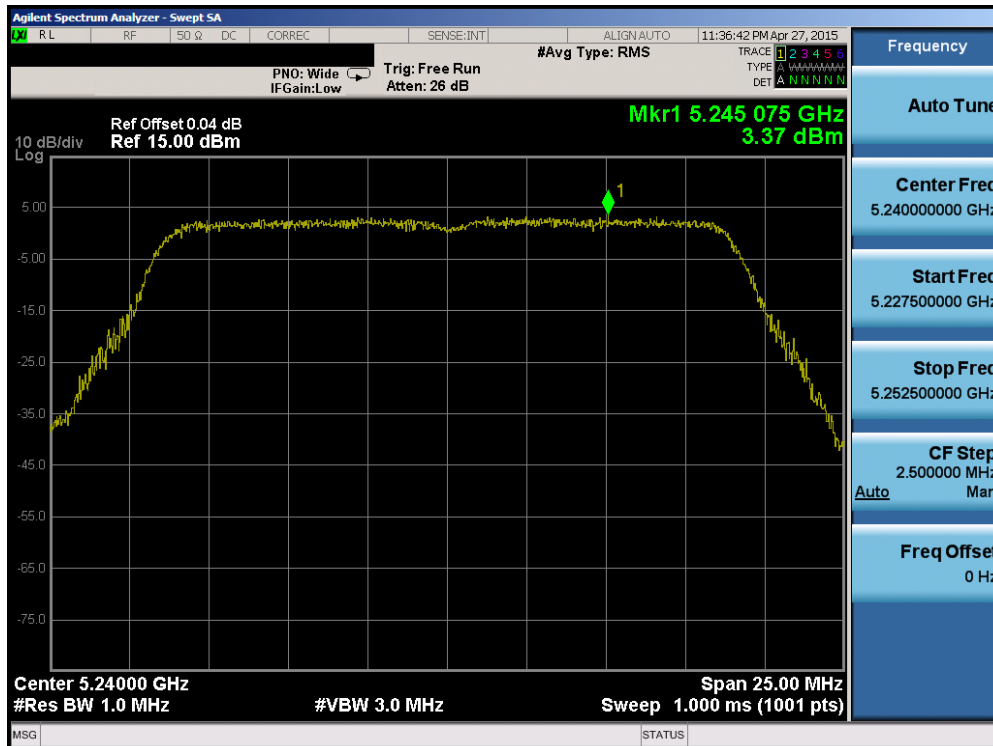


Plot 6-118. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 88 of 212

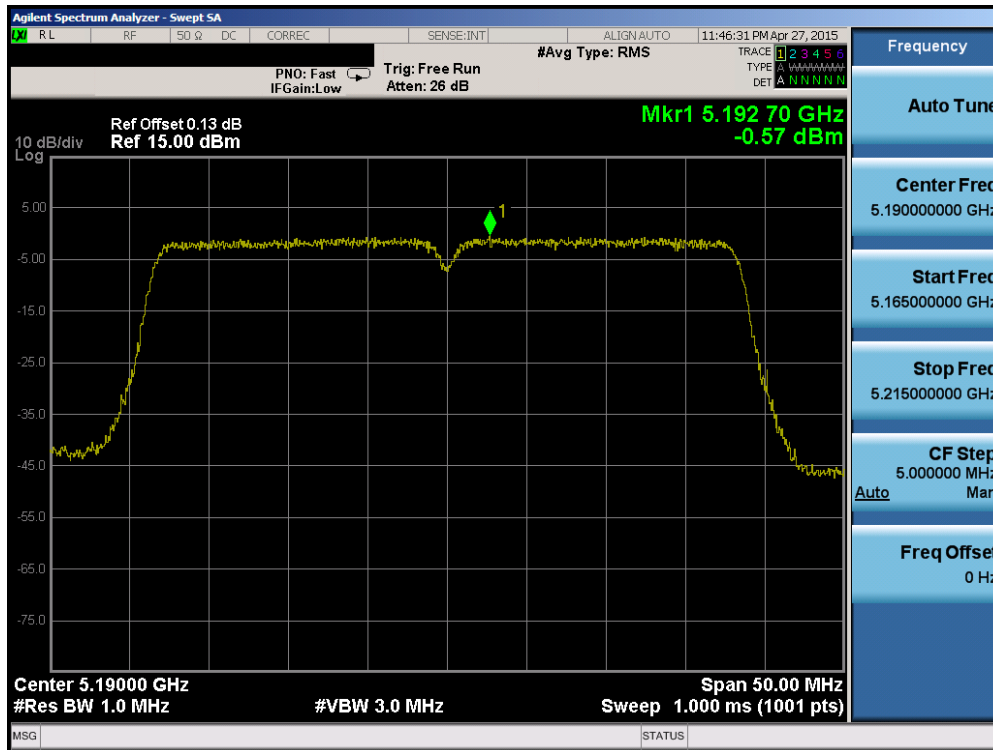


Plot 6-119. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

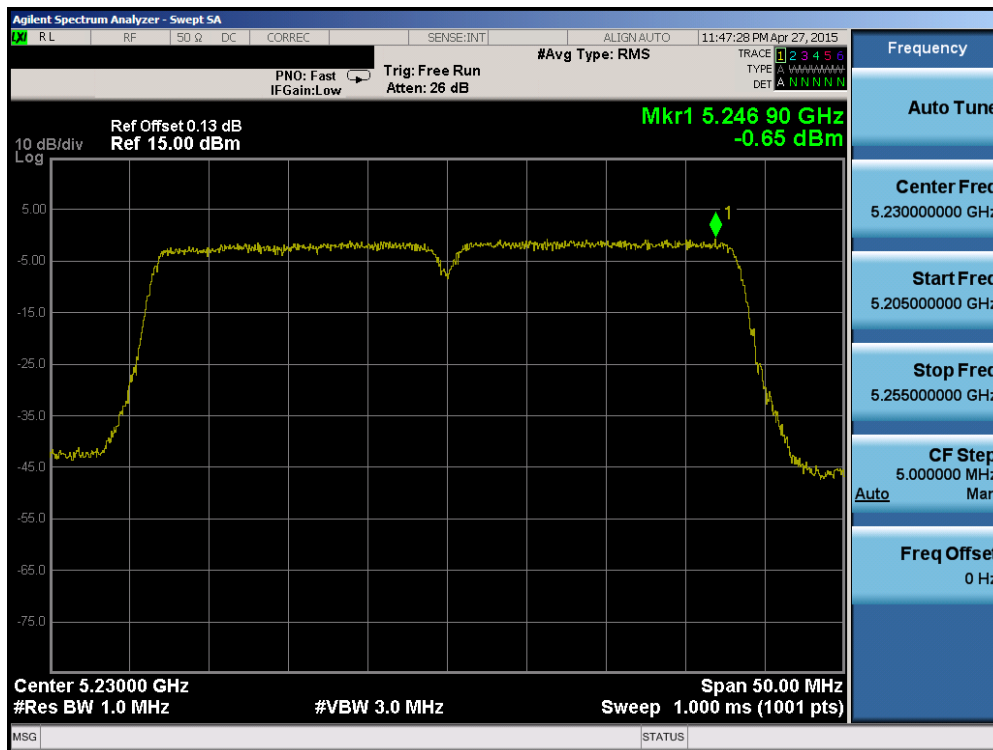


Plot 6-120. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 89 of 212

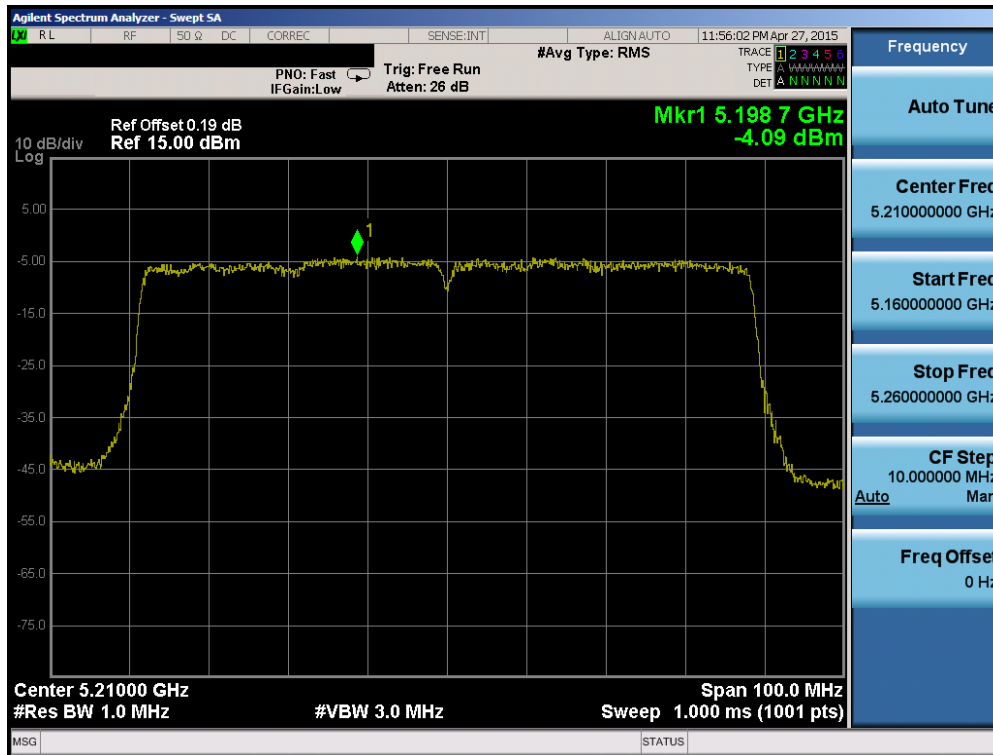


Plot 6-121. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

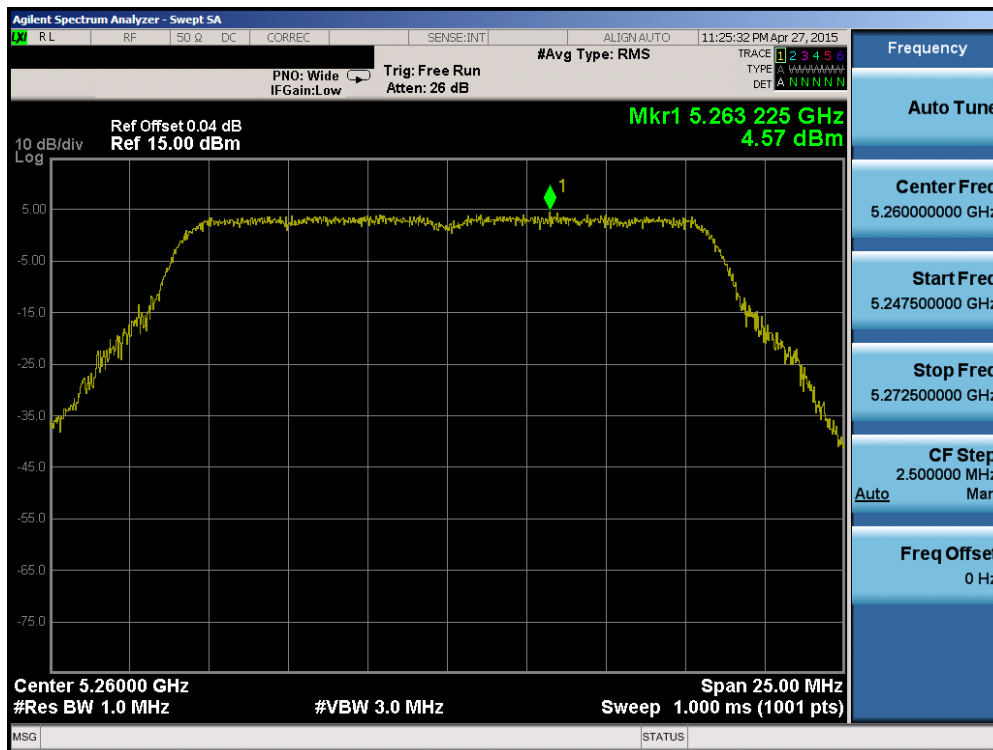


Plot 6-122. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 90 of 212

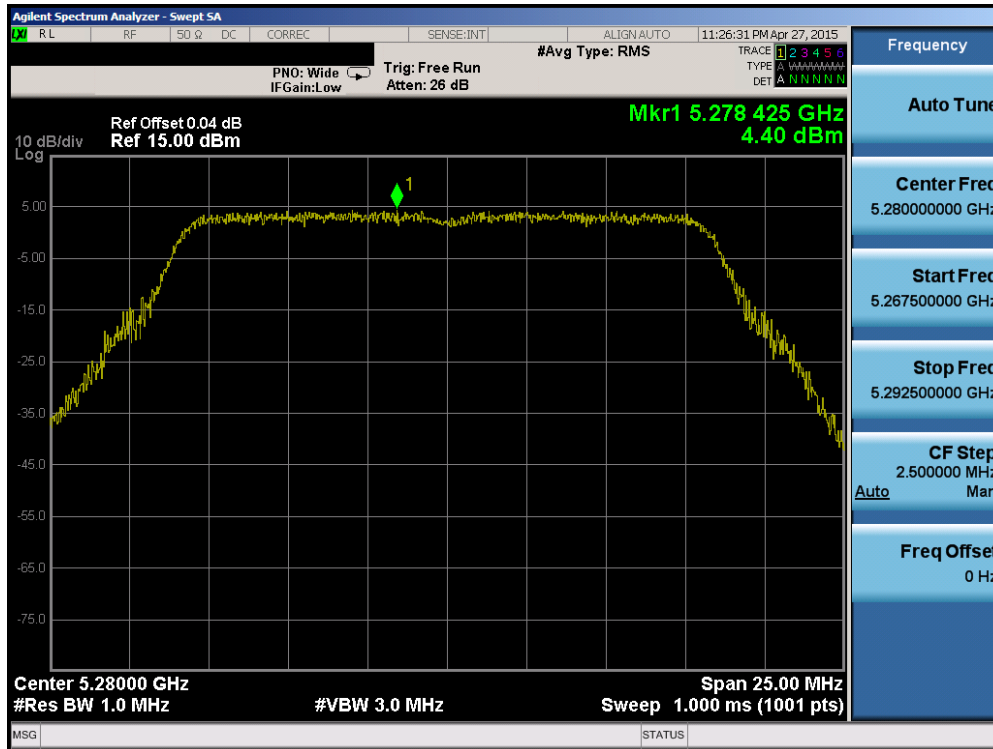


Plot 6-123. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

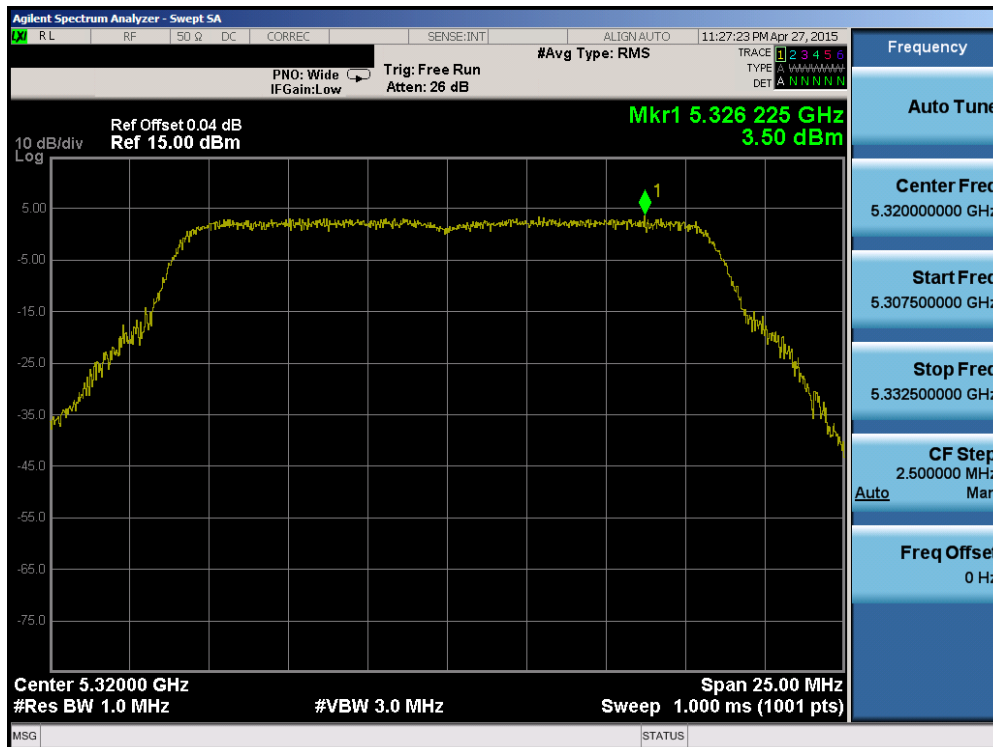


Plot 6-124. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 91 of 212

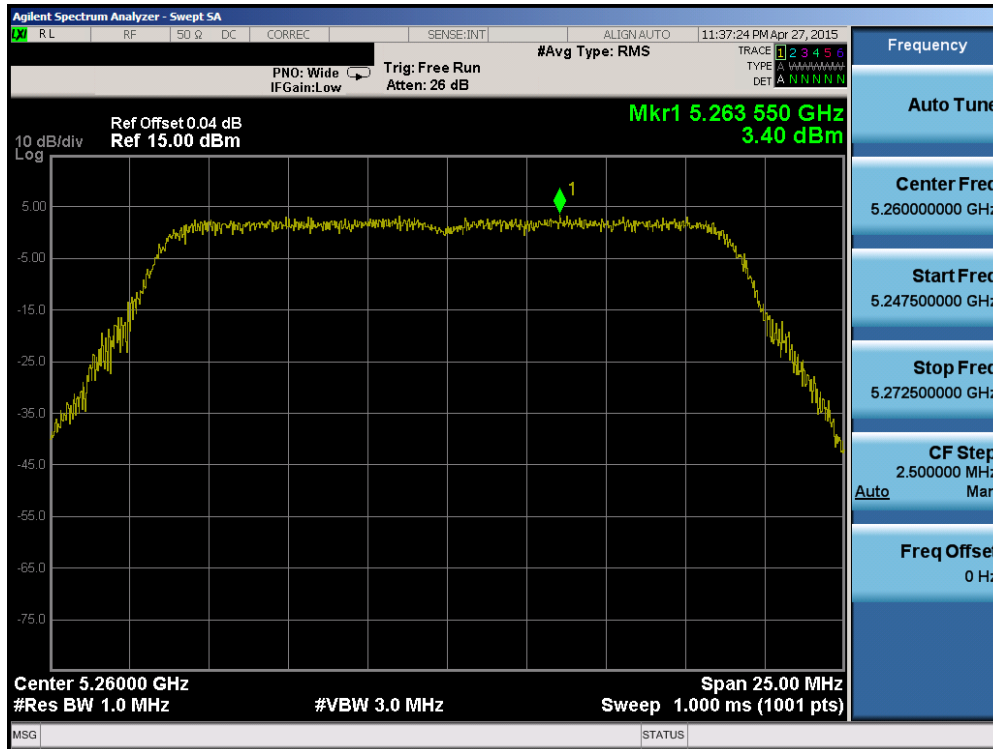


Plot 6-125. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 56)

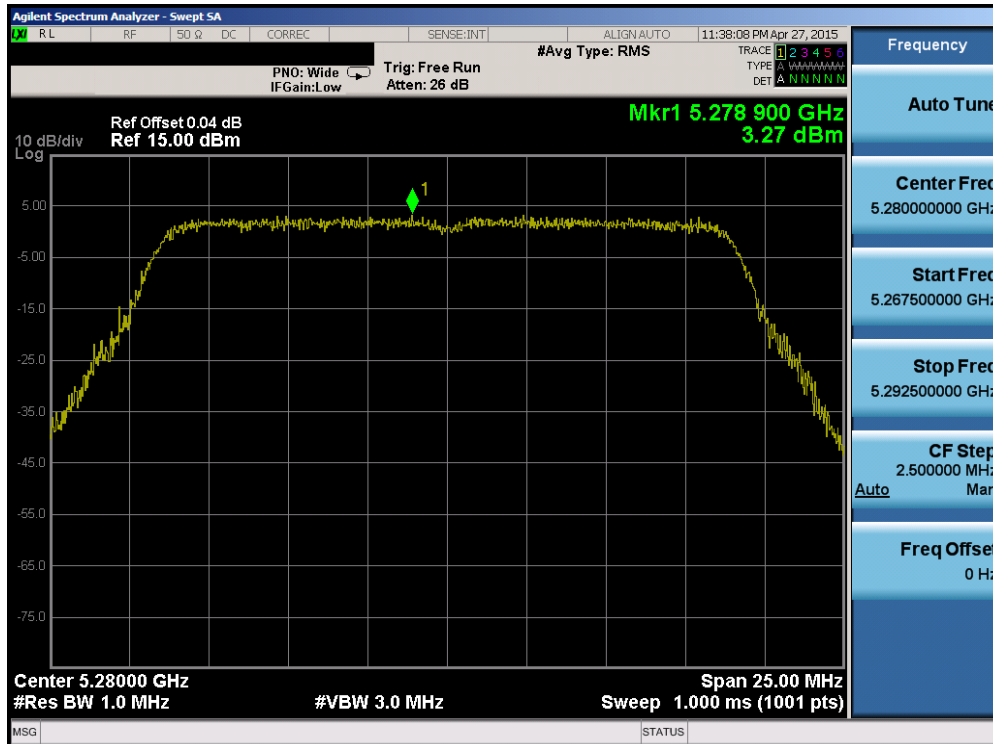


Plot 6-126. Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 92 of 212

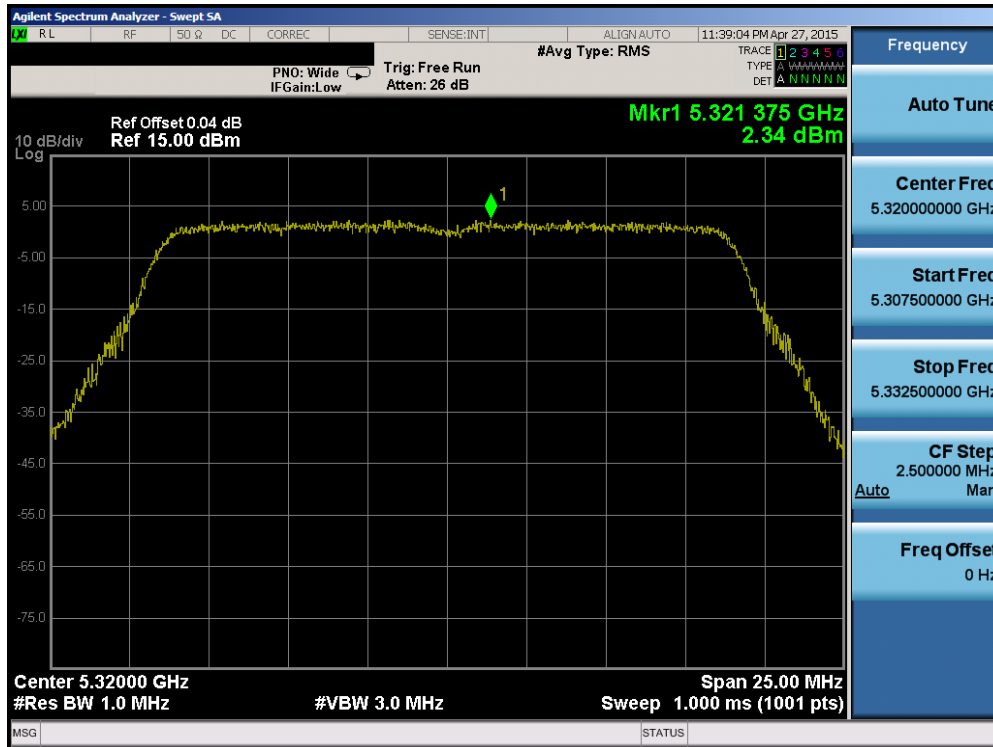


Plot 6-127. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

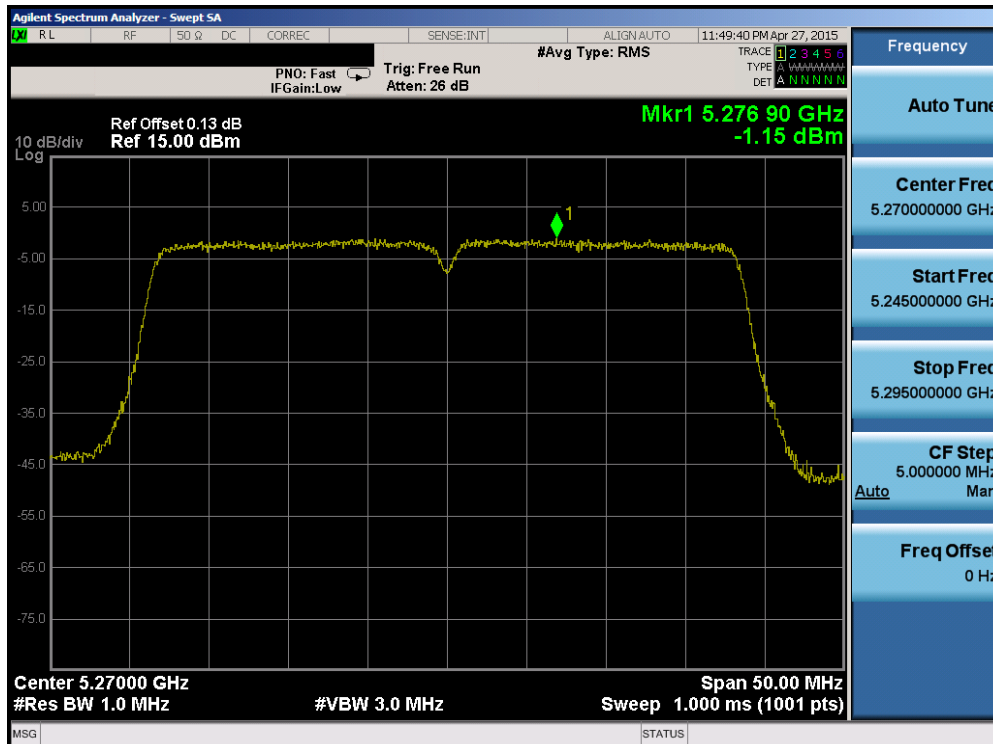


Plot 6-128. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 93 of 212

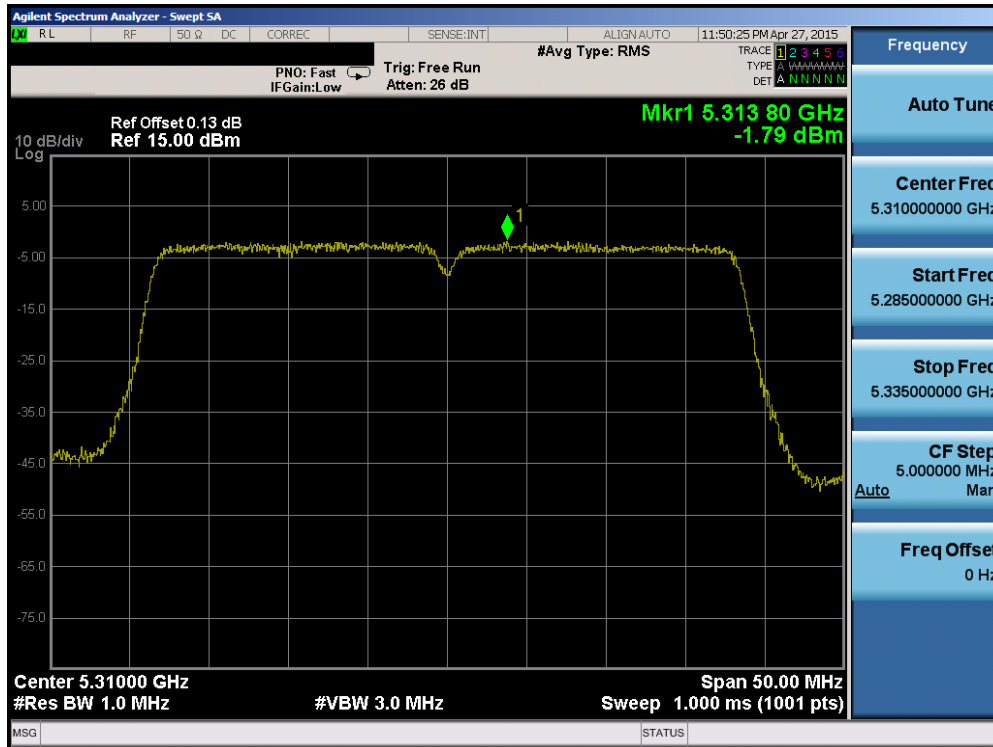


Plot 6-129. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

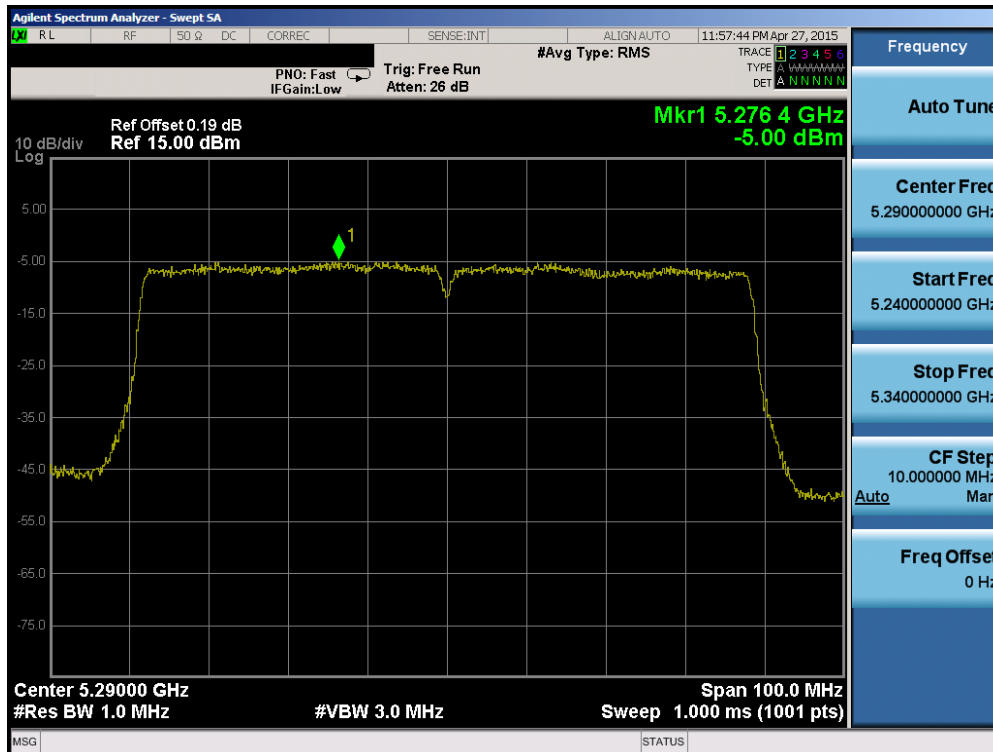


Plot 6-130. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 94 of 212

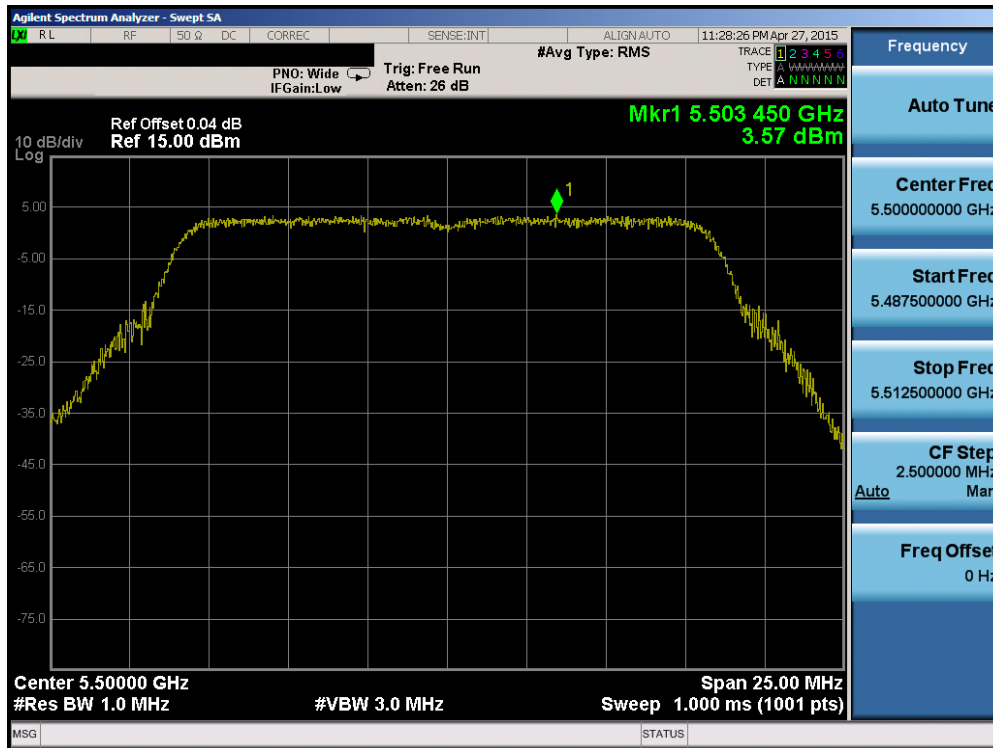


Plot 6-131. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

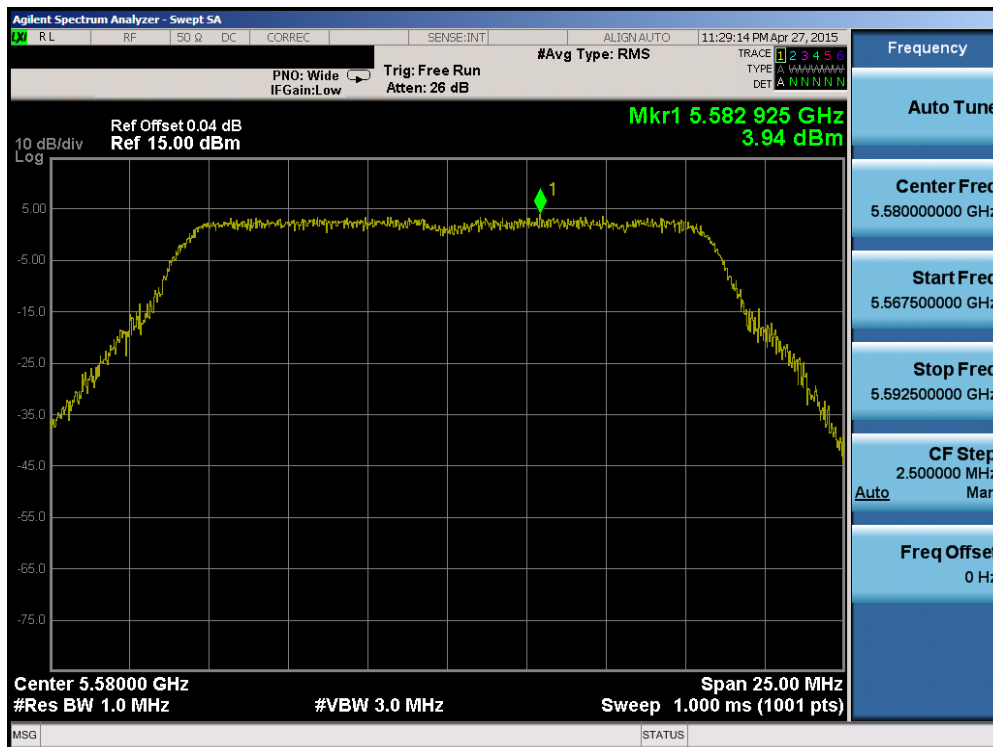


Plot 6-132. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 95 of 212

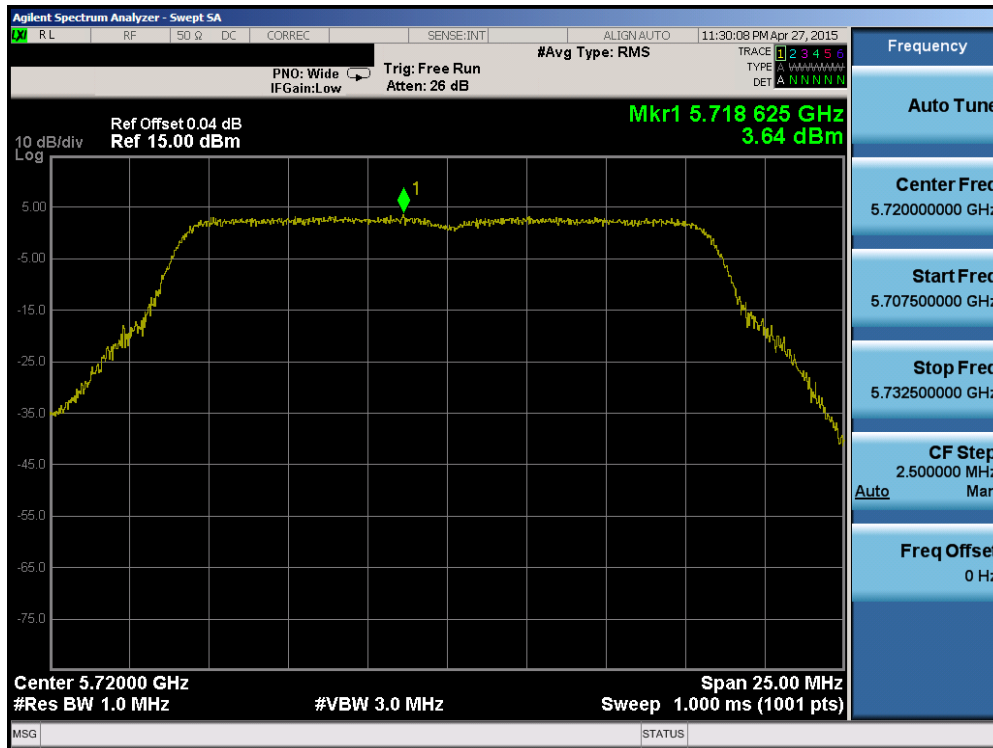


Plot 6-133. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 100)

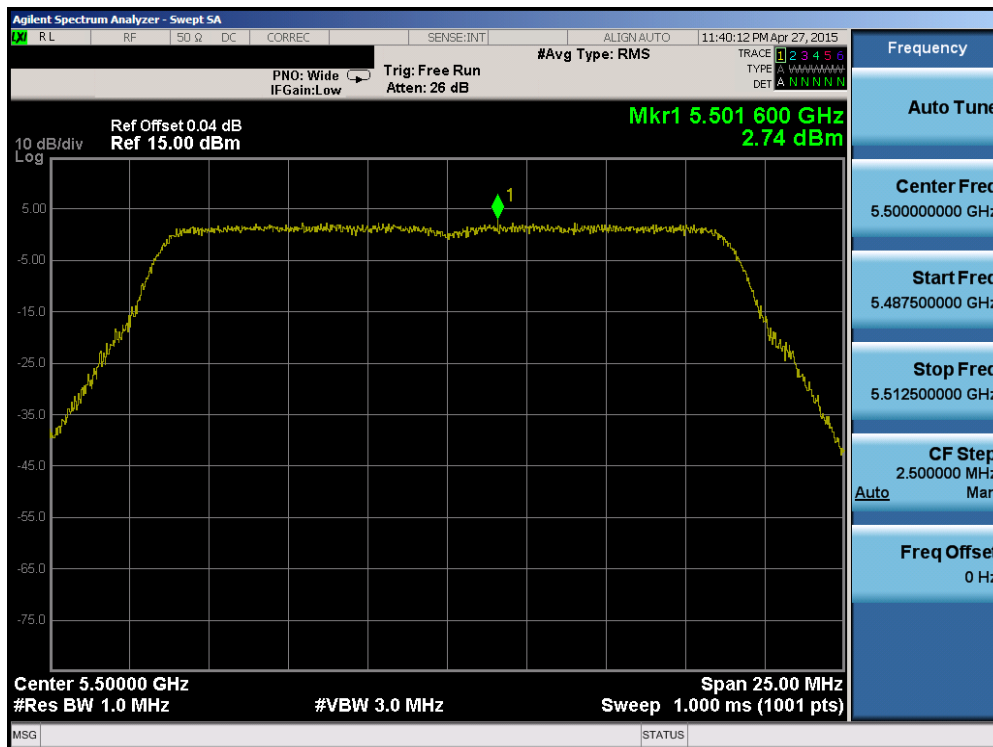


Plot 6-134. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 116)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 96 of 212

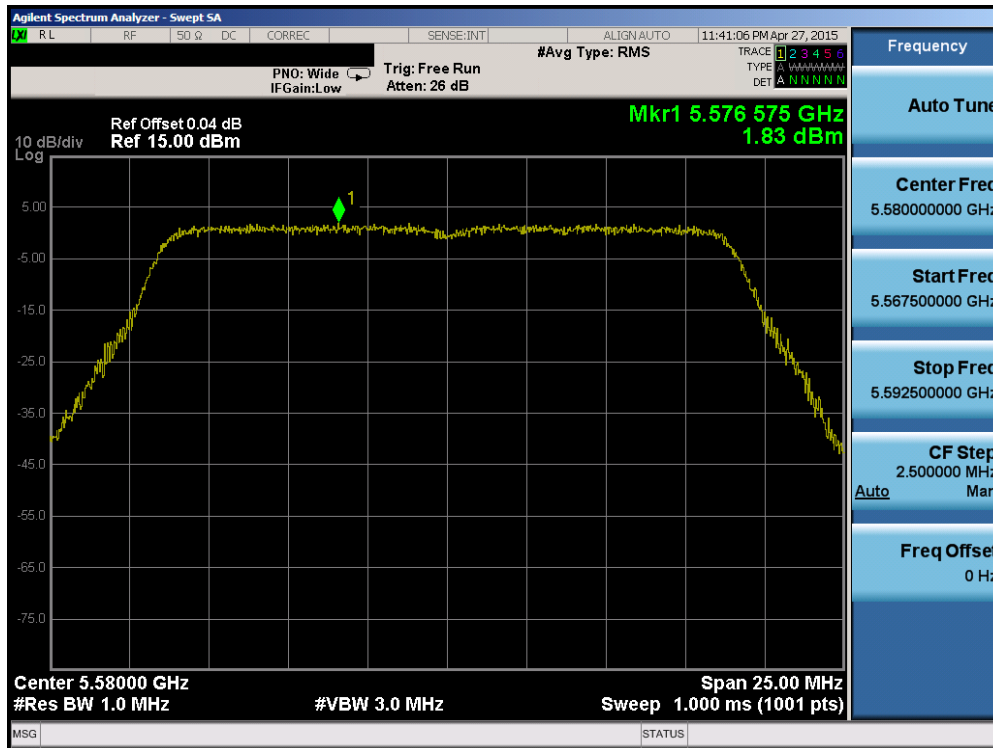


Plot 6-135. Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 144)

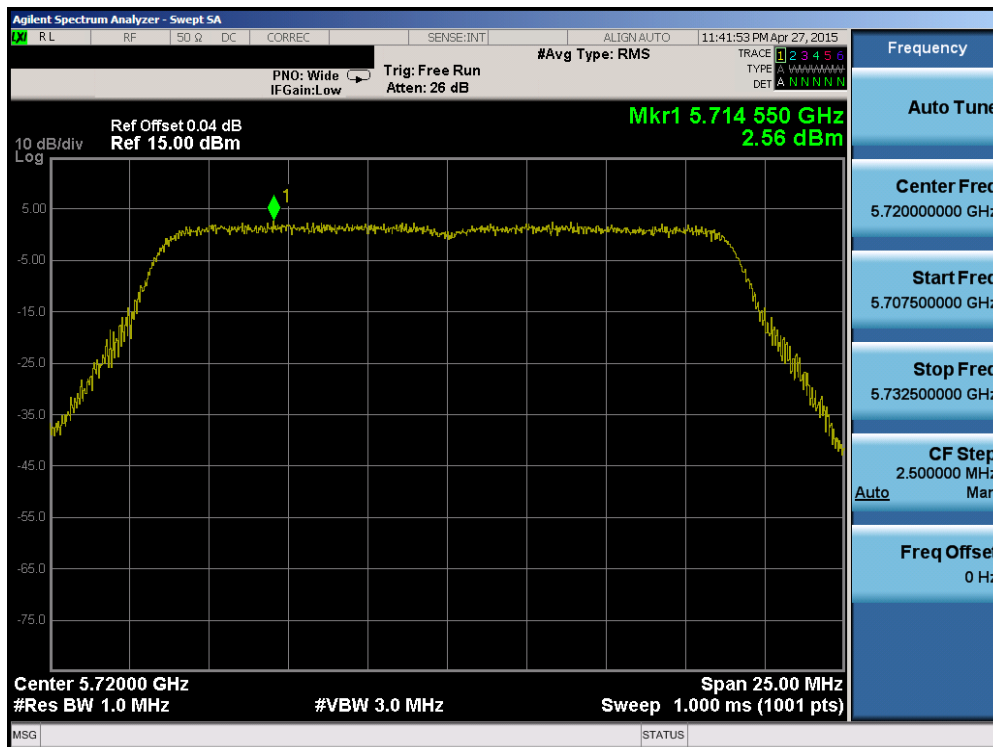


Plot 6-136. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 97 of 212

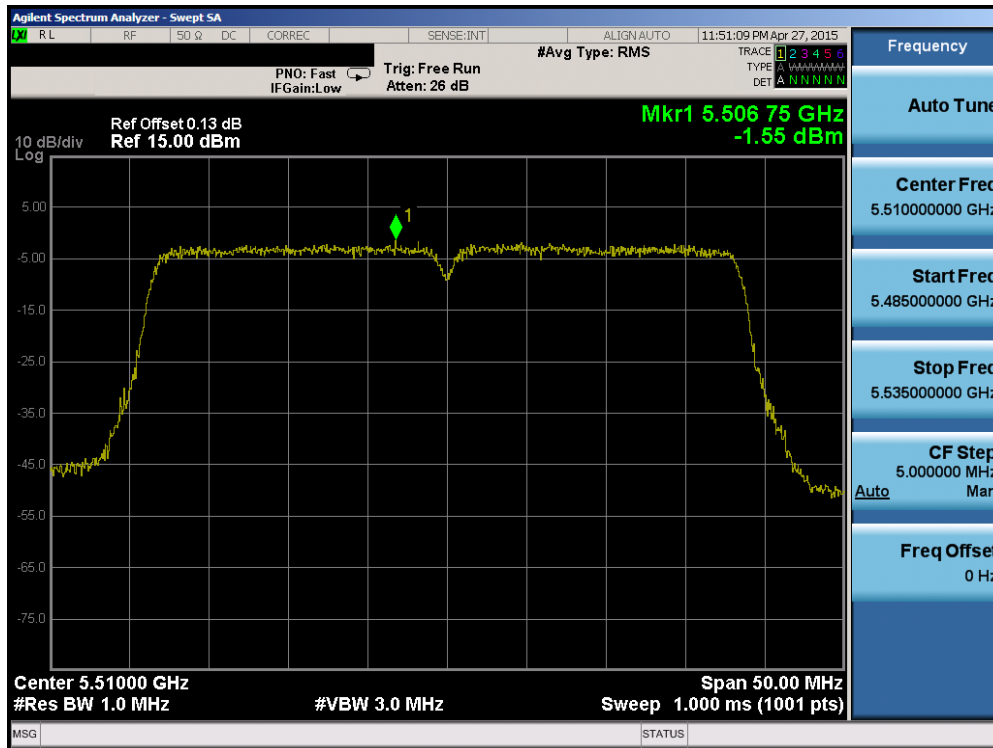


Plot 6-137. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 116)

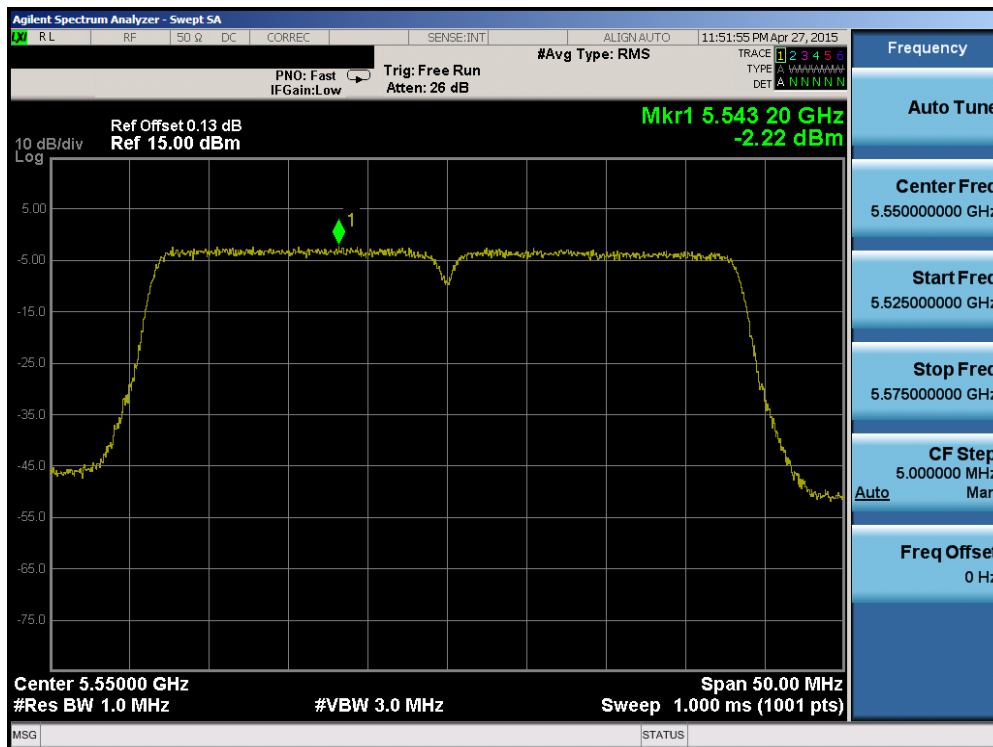


Plot 6-138. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 144)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 98 of 212

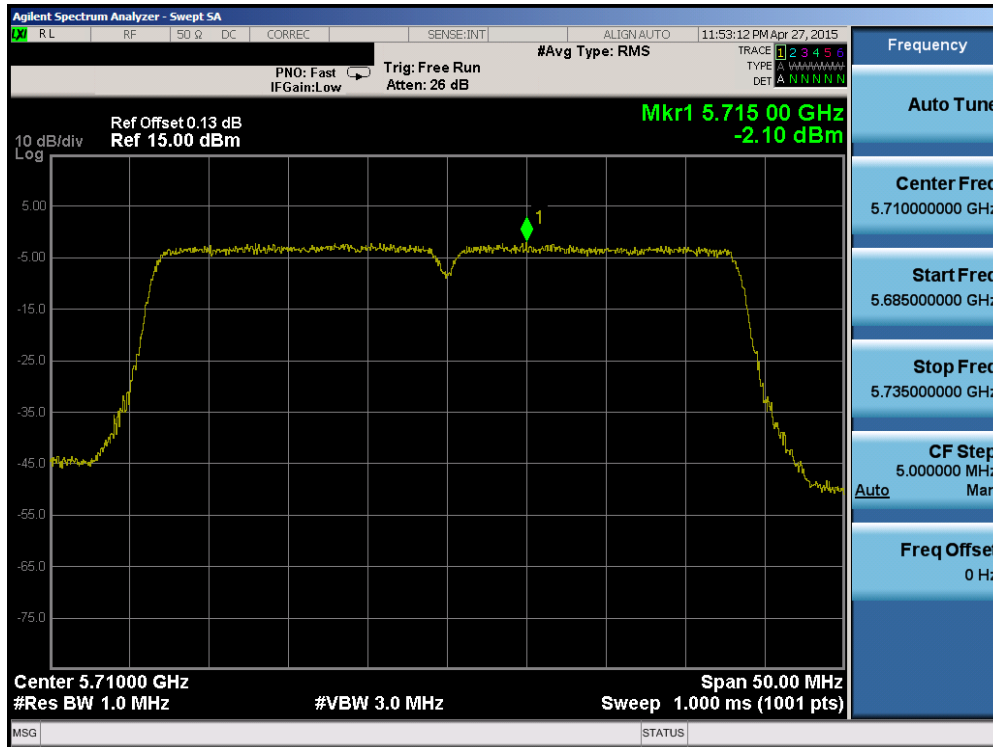


Plot 6-139. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

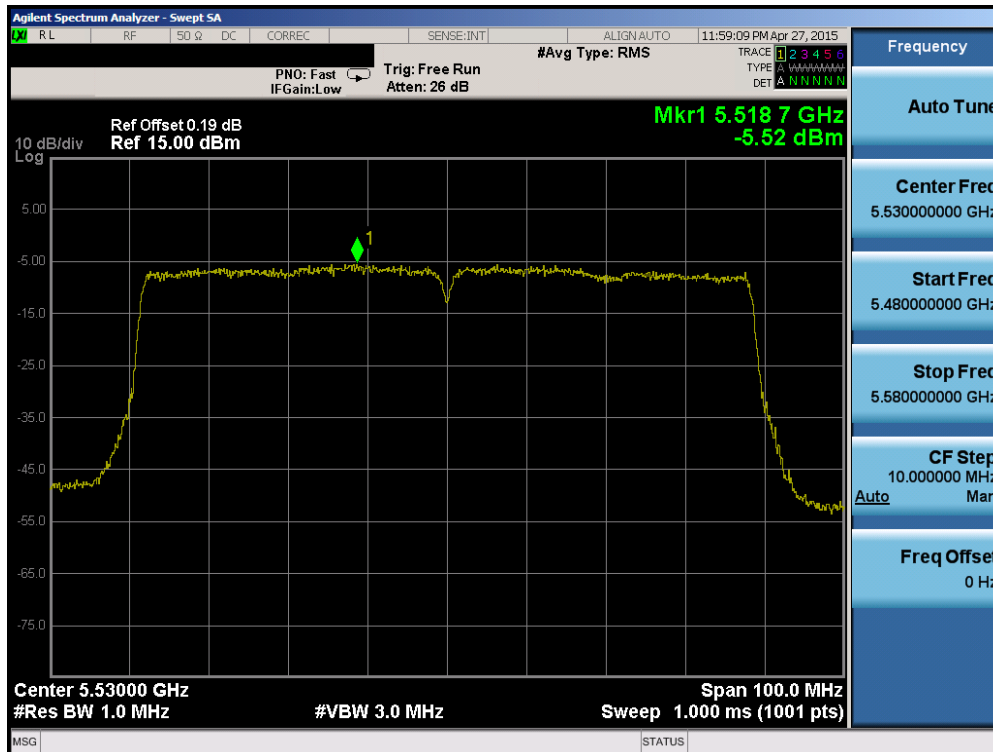


Plot 6-140. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 110)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 99 of 212

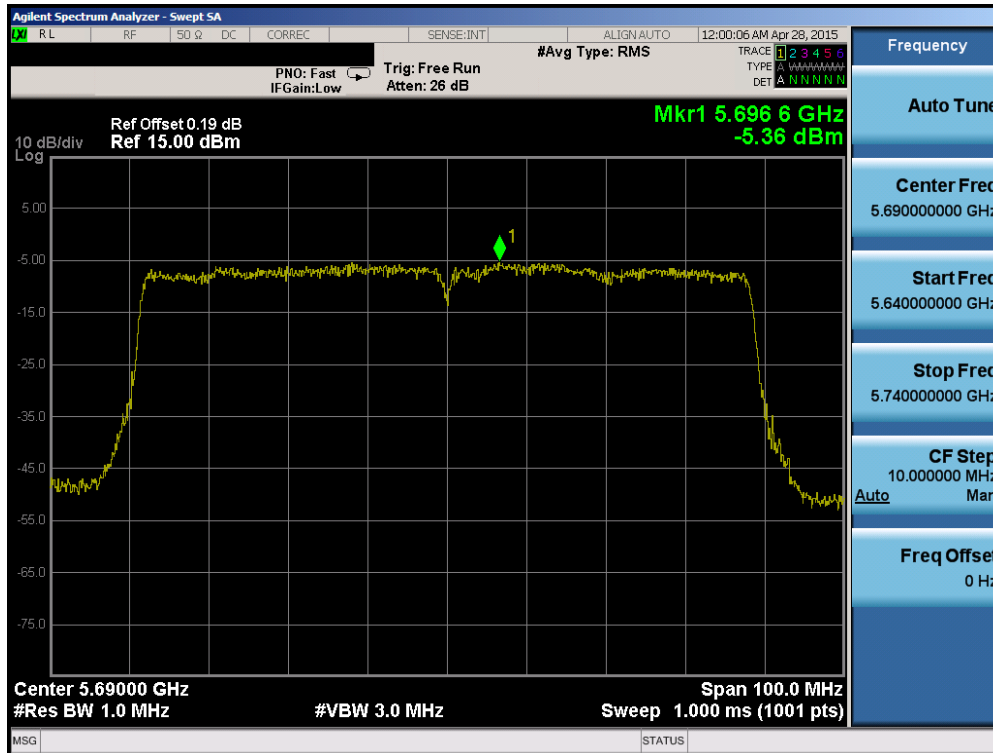


Plot 6-141. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 142)



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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 100 of 212

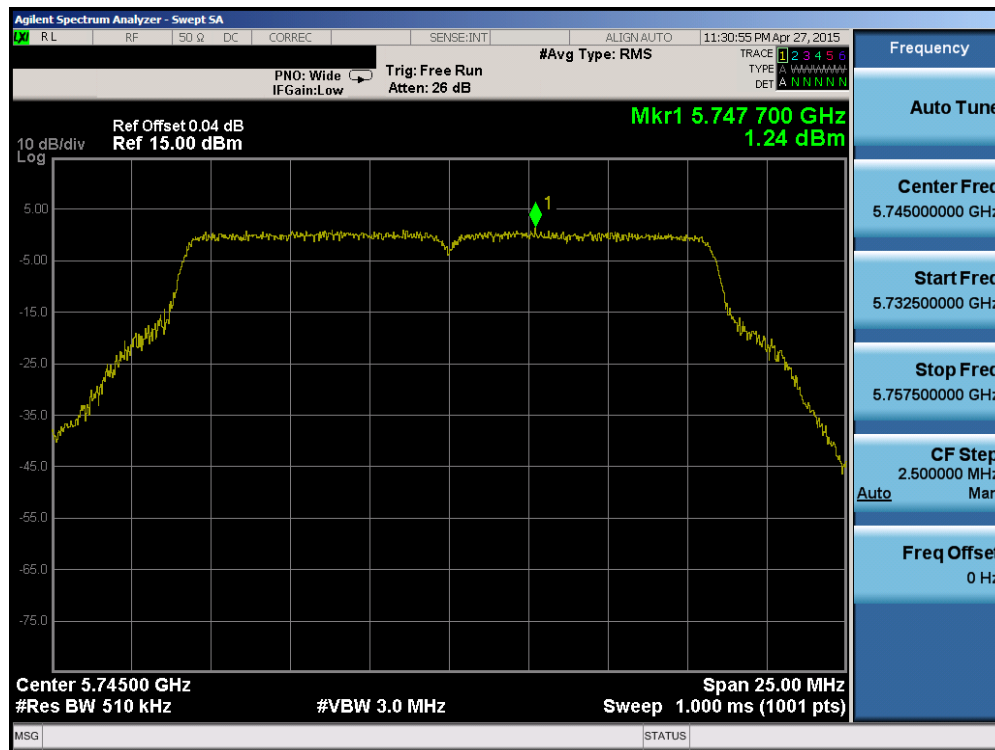


Plot 6-143. Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 138)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 101 of 212

	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	1.24	30.0	-28.76	Pass
	5785	157	a	6	1.05	30.0	-28.95	Pass
	5825	165	a	6	0.52	30.0	-29.48	Pass
	5745	149	n (20MHz)	6.5/7.2 (MCS0)	-0.21	30.0	-30.21	Pass
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	-0.48	30.0	-30.48	Pass
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	-0.95	30.0	-30.95	Pass
	5755	151	n (40MHz)	13.5/15 (MCS0)	-4.00	30.0	-34.00	Pass
	5795	159	n (40MHz)	13.5/15 (MCS0)	-4.23	30.0	-34.23	Pass
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-7.82	30.0	-37.82	Pass

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

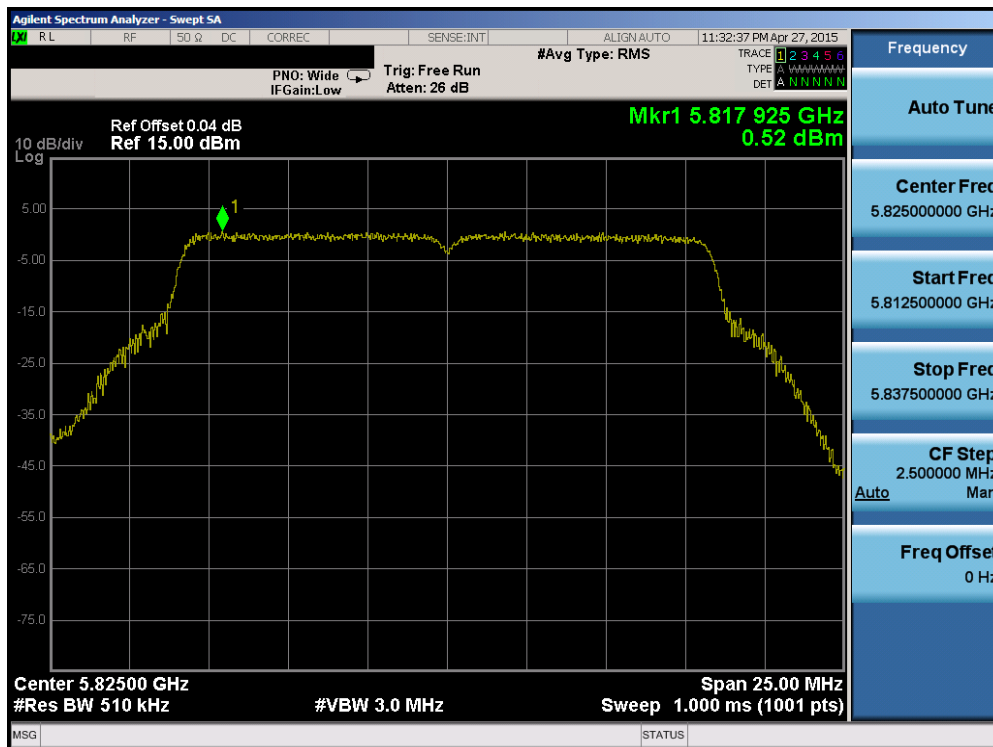


Plot 6-144. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 149)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 102 of 212

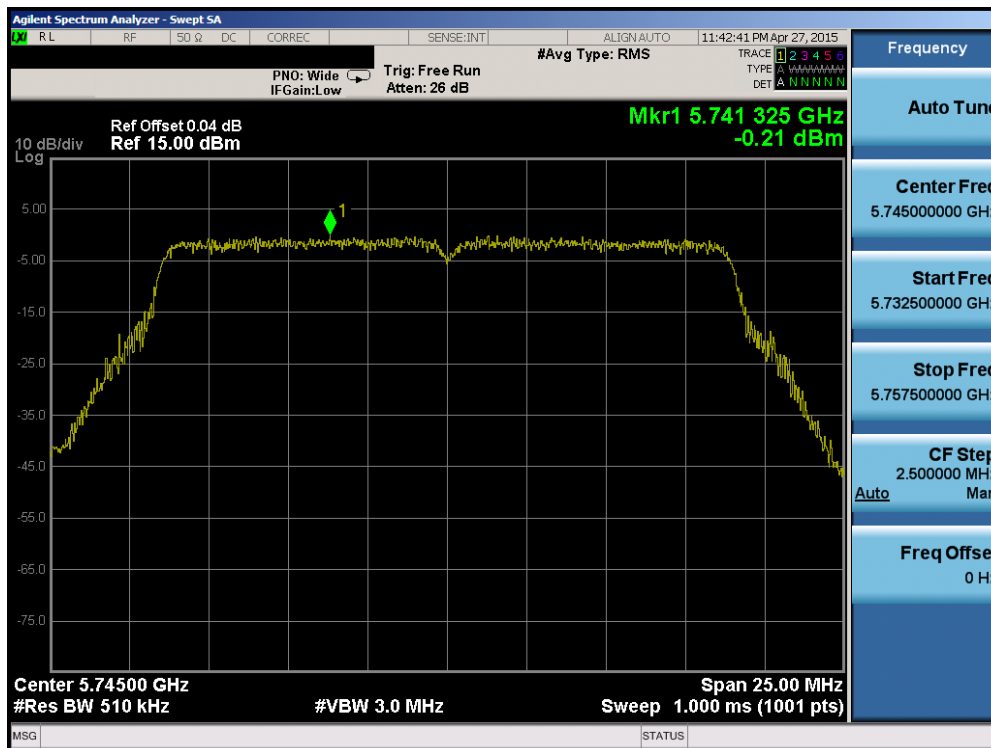


Plot 6-145. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 157)

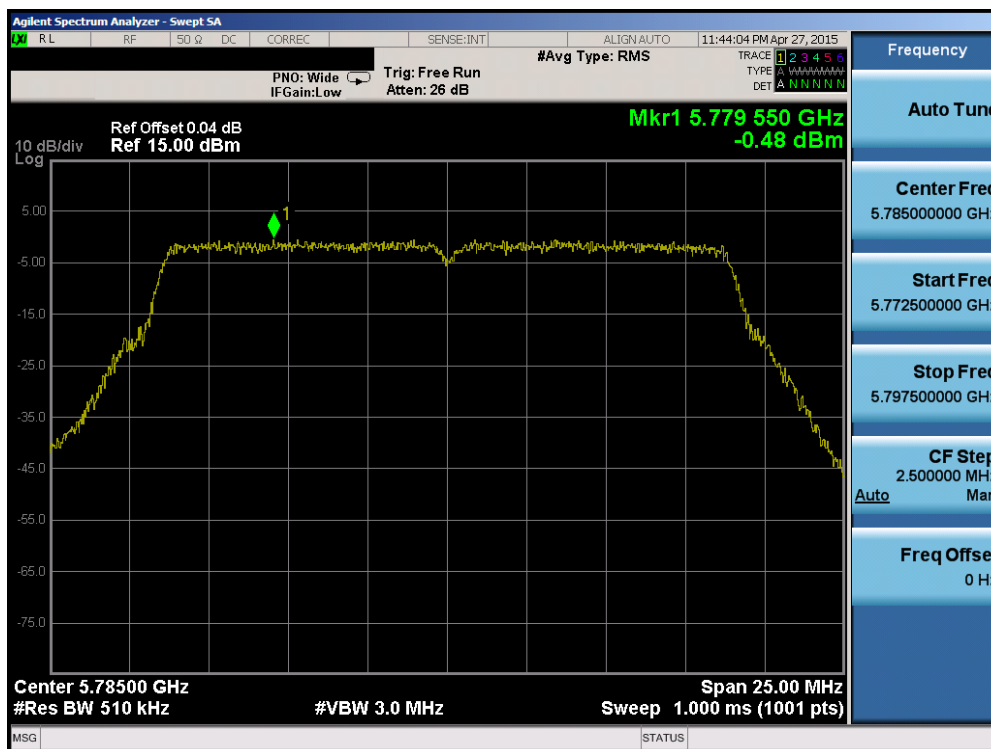


Plot 6-146. Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 165)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 103 of 212

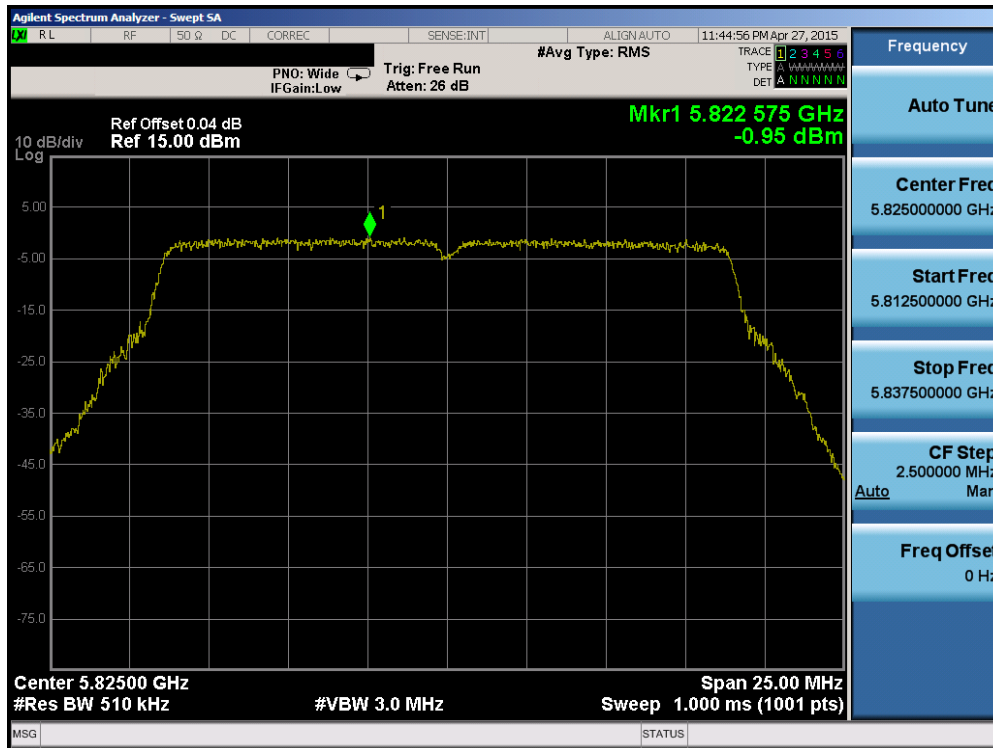


Plot 6-147. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 149)

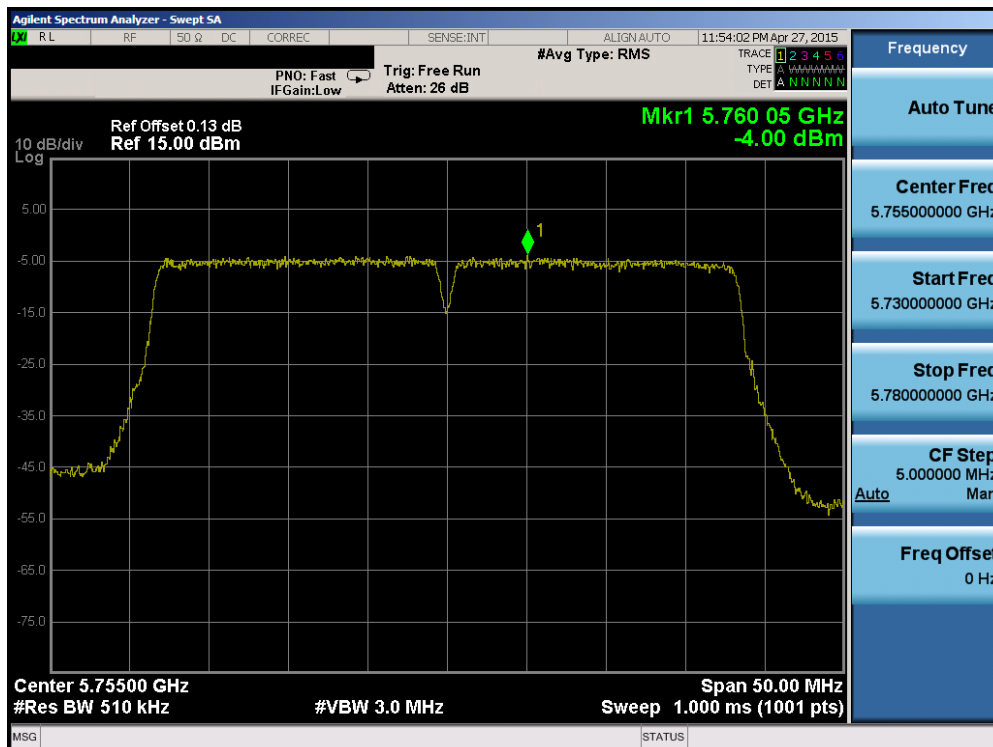


Plot 6-148. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 157)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 104 of 212

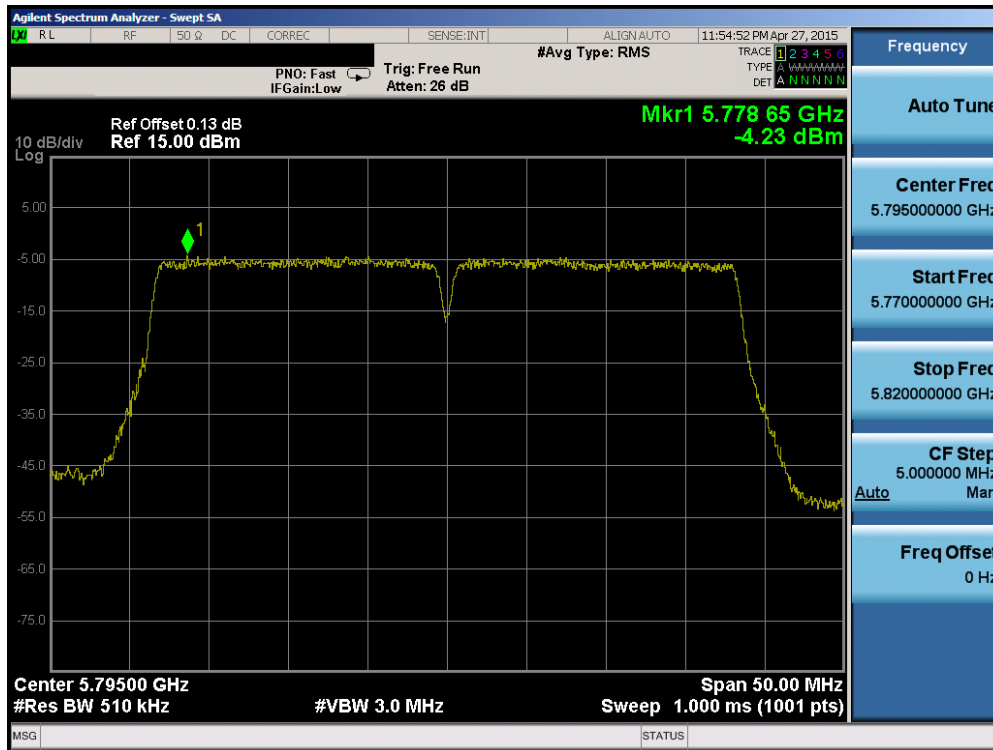


Plot 6-149. Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 3) – Ch. 165)

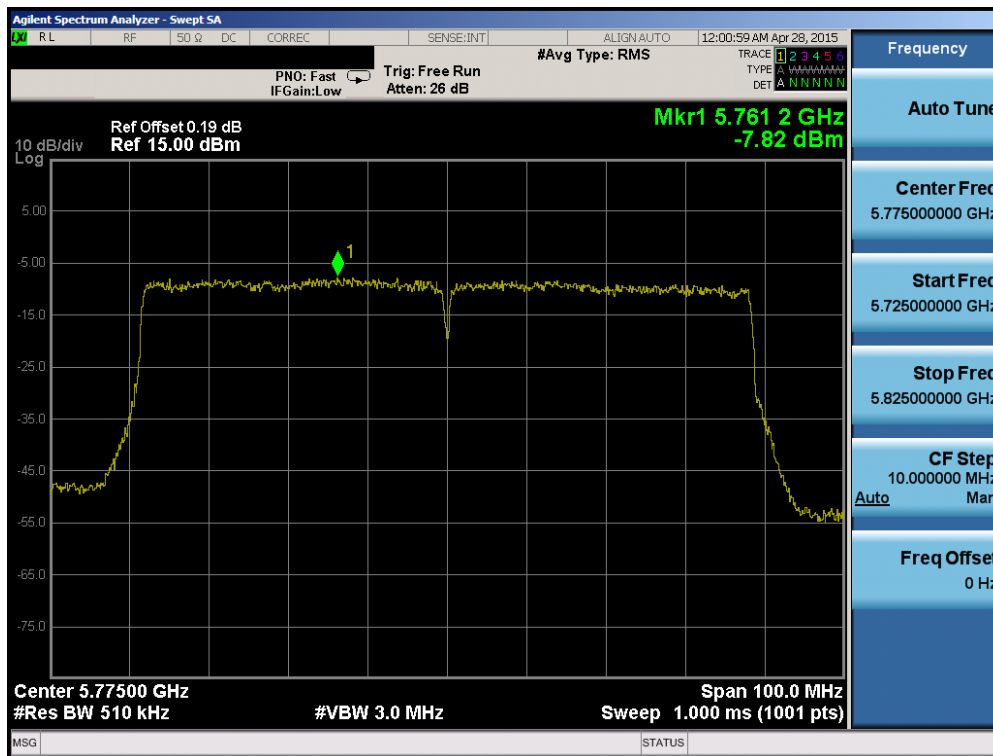


Plot 6-150. Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 3) – Ch. 151)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 105 of 212



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)

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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)	3.69	3.73	6.72	11.0	-4.28	Pass
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	3.77	3.79	6.79	11.0	-4.21	Pass
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	3.33	3.37	6.36	11.0	-4.64	Pass
	5190	38	n (40MHz)	13.5/15 (MCS0)	-0.91	-0.57	2.27	11.0	-8.73	Pass
	5230	46	n (40MHz)	13.5/15 (MCS0)	-0.66	-0.65	2.36	11.0	-8.64	Pass
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-3.93	-4.09	-1.00	11.0	-12.00	Pass
Band 2A	5260	52	n (20MHz)	6.5/7.2 (MCS0)	3.49	3.40	6.45	11.0	-4.55	Pass
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	2.98	3.27	6.14	11.0	-4.86	Pass
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	2.04	2.34	5.20	11.0	-5.80	Pass
	5270	54	n (40MHz)	13.5/15 (MCS0)	-0.56	-1.15	2.16	11.0	-8.84	Pass
	5310	62	n (40MHz)	13.5/15 (MCS0)	-1.16	-1.79	1.55	11.0	-9.45	Pass
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-4.85	-5.00	-1.92	11.0	-12.92	Pass
Band 2C	5500	100	n (20MHz)	6.5/7.2 (MCS0)	2.56	2.74	5.66	11.0	-5.34	Pass
	5580	116	n (20MHz)	6.5/7.2 (MCS0)	2.30	1.84	5.08	11.0	-5.92	Pass
	5720	144	n (20MHz)	6.5/7.2 (MCS0)	2.32	2.56	5.45	11.0	-5.55	Pass
	5510	102	n (40MHz)	13.5/15 (MCS0)	-1.14	-1.55	1.67	11.0	-9.33	Pass
	5550	110	n (40MHz)	13.5/15 (MCS0)	-1.16	-2.22	1.35	11.0	-9.65	Pass
	5710	142	n (40MHz)	13.5/15 (MCS0)	-1.39	-2.10	1.28	11.0	-9.72	Pass
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-4.68	-5.52	-2.07	11.0	-13.07	Pass
	5690	138	ac (80MHz)	29.3/32.5 (MCS0)	-5.27	-5.36	-2.30	11.0	-13.30	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)	0.02	-0.21	2.92	30.0	-27.08	Pass
	5785	157	n (20MHz)	6.5/7.2 (MCS0)	-0.11	-0.48	2.72	30.0	-27.28	Pass
	5825	165	n (20MHz)	6.5/7.2 (MCS0)	-0.57	-0.95	2.25	30.0	-27.75	Pass
	5755	151	n (40MHz)	13.5/15 (MCS0)	-4.17	-4.00	-1.07	30.0	-31.07	Pass
	5795	159	n (40MHz)	13.5/15 (MCS0)	-4.15	-4.23	-1.18	30.0	-31.18	Pass
	5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-7.05	-7.82	-4.41	30.0	-34.41	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 3.69 dBm for Antenna-1 and 3.73 dBm for Antenna-2.

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

$$(3.69 \text{ dBm} + 3.73 \text{ dBm}) = (2.34 \text{ mW} + 2.36 \text{ mW}) = 4.70 \text{ mW} = 6.72 \text{ dBm}$$

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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)	5,180,000,069	69	0.00000133
100 %		- 30	5,180,000,052	52	0.00000100
100 %		- 20	5,179,999,804	-196	-0.00000378
100 %		- 10	5,179,999,984	-16	-0.00000031
100 %		0	5,180,000,117	117	0.00000226
100 %		+ 10	5,180,000,084	84	0.00000162
100 %		+ 20	5,180,000,274	274	0.00000529
100 %		+ 30	5,180,000,168	168	0.00000324
100 %		+ 40	5,180,000,008	8	0.00000015
100 %		+ 50	5,179,999,951	-49	-0.00000095
BATT. ENDPOINT	3.45	+ 20	5,179,999,765	-235	-0.00000454

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)	5,259,999,944	-56	-0.00000106
100 %		- 30	5,259,999,975	-25	-0.00000048
100 %		- 20	5,260,000,017	17	0.00000032
100 %		- 10	5,259,999,606	-394	-0.00000749
100 %		0	5,260,000,009	9	0.00000017
100 %		+ 10	5,259,999,825	-175	-0.00000333
100 %		+ 20	5,260,000,047	47	0.00000089
100 %		+ 30	5,259,999,718	-282	-0.00000536
100 %		+ 40	5,260,000,049	49	0.00000093
100 %		+ 50	5,259,999,919	-81	-0.00000154
BATT. ENDPOINT	3.45	+ 20	5,260,000,190	190	0.00000361

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

\$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: 5,500,000,000 Hz
 CHANNEL: 100
 REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	5,499,999,878	-122	-0.00000222
100 %		- 30	5,499,999,849	-151	-0.00000275
100 %		- 20	5,500,000,059	59	0.00000107
100 %		- 10	5,499,999,843	-157	-0.00000285
100 %		0	5,499,999,940	-60	-0.00000109
100 %		+ 10	5,500,000,119	119	0.00000216
100 %		+ 20	5,500,000,292	292	0.00000531
100 %		+ 30	5,499,999,863	-137	-0.00000249
100 %		+ 40	5,499,999,945	-55	-0.00000100
100 %		+ 50	5,500,000,001	1	0.00000002
BATT. ENDPOINT	3.45	+ 20	5,500,000,060	60	0.00000109

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)	5,744,999,701	-299	-0.00000520
100 %		- 30	5,745,000,374	374	0.00000651
100 %		- 20	5,745,000,002	2	0.00000003
100 %		- 10	5,744,999,895	-105	-0.00000183
100 %		0	5,744,999,796	-204	-0.00000355
100 %		+ 10	5,744,999,782	-218	-0.00000379
100 %		+ 20	5,744,999,754	-246	-0.00000428
100 %		+ 30	5,745,000,173	173	0.00000301
100 %		+ 40	5,744,999,956	-44	-0.00000077
100 %		+ 50	5,745,000,178	178	0.00000310
BATT. ENDPOINT	3.45	+ 20	5,744,999,707	-293	-0.00000510

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 – Above 1GHz

§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 duty cycle, 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), 802.11n (40MHz BW), and 802.11ac (80MHz)), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

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 [μV/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.

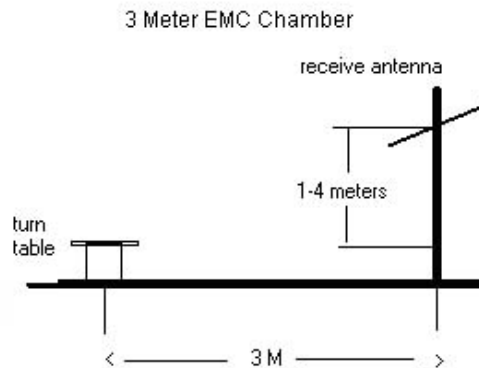


Figure 6-5. Test Instrument & Measurement Setup

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.

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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 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. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section. 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

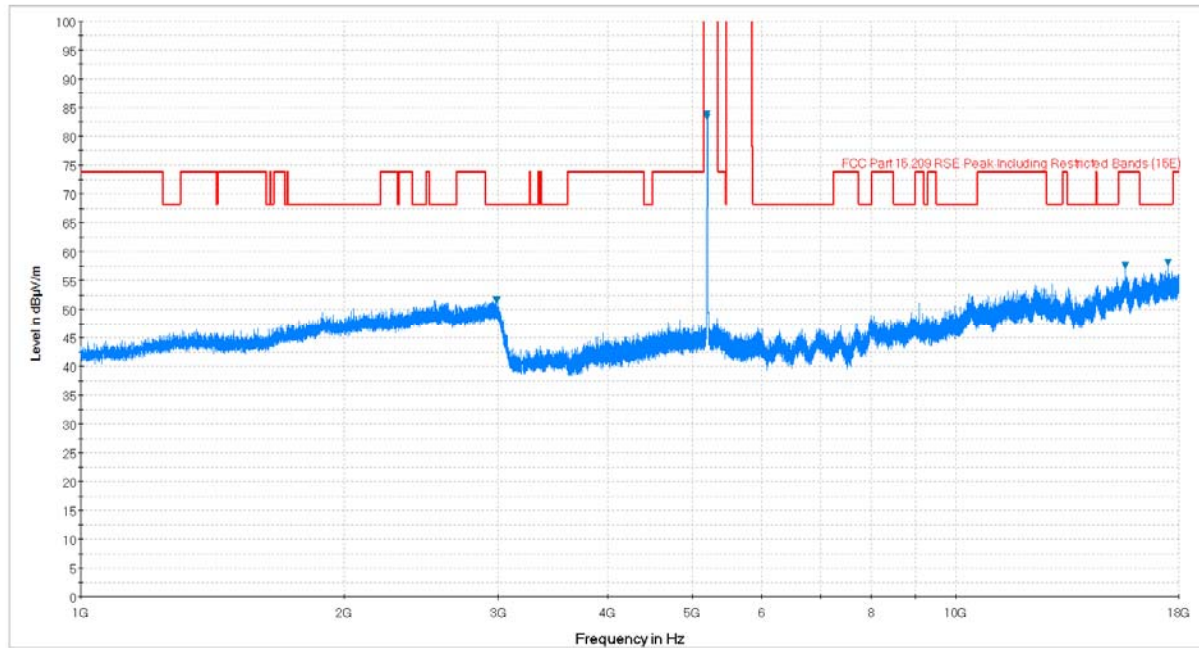
- o Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- o $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]}$
- o $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

Radiated Band Edge Measurement Offset

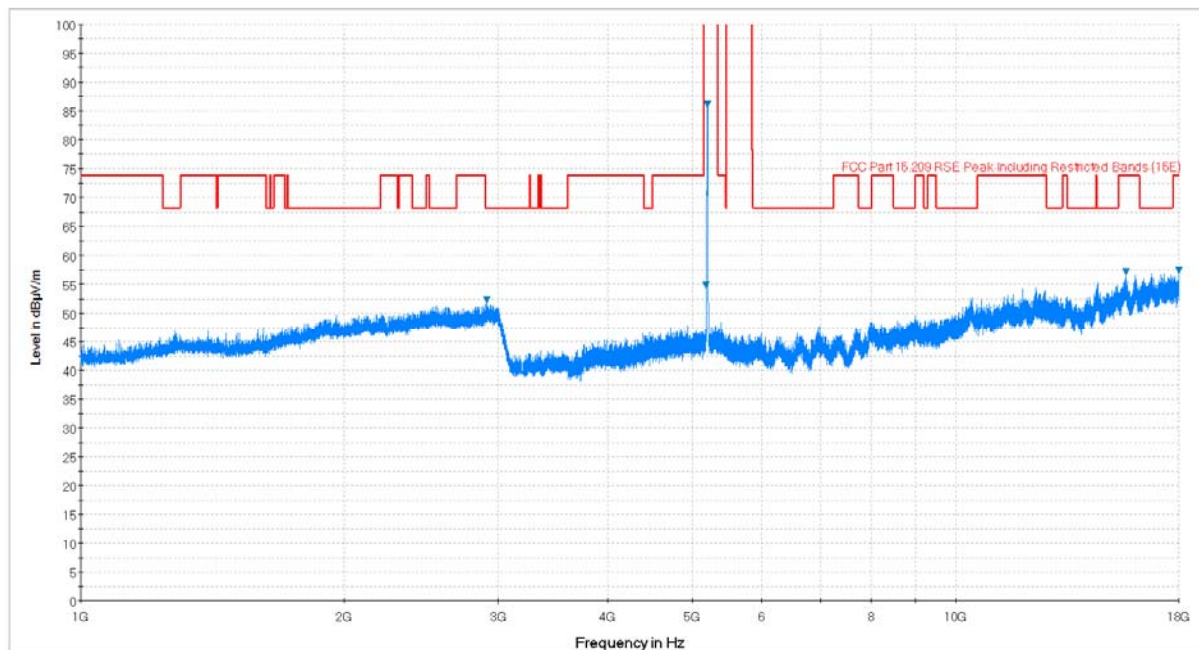
- o The amplitude offset shown in the radiated restricted band edge plots in Section 6.8 was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + 10 dB Attenuator) – Preamplifier Gain

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6.7.1 Antenna-1 Radiated Spurious Emission Measurements

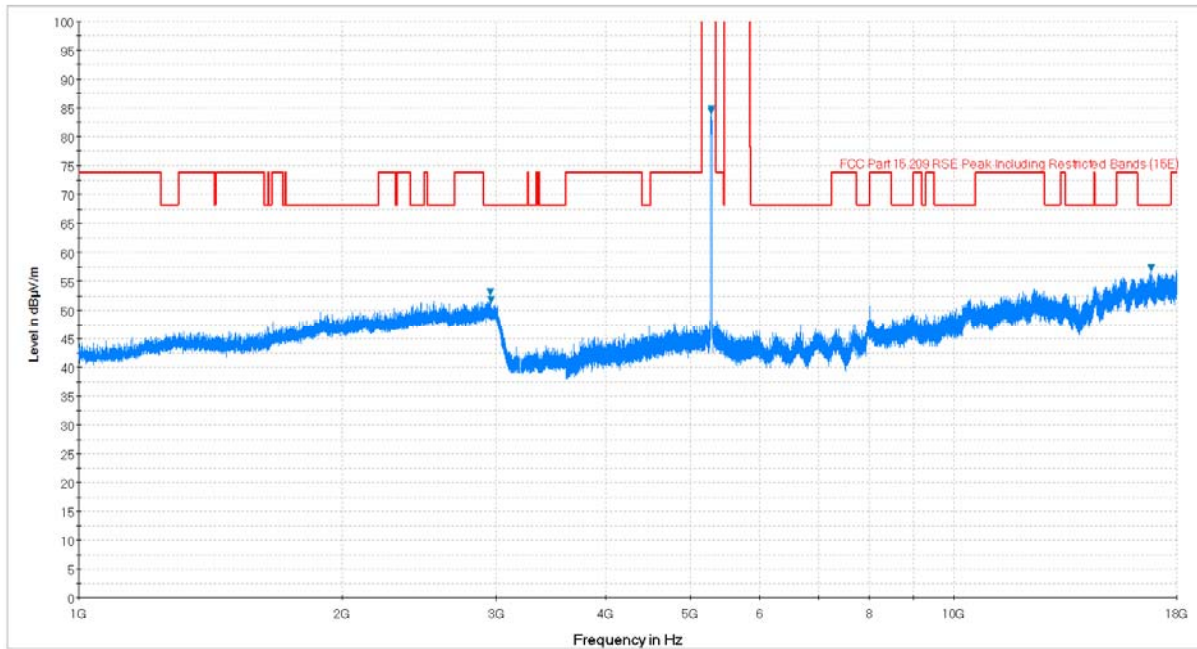


Plot 6-153. Radiated Spurious Plot above 1GHz (802.11a – U1 Ch. 40, Ant. Pol. H)

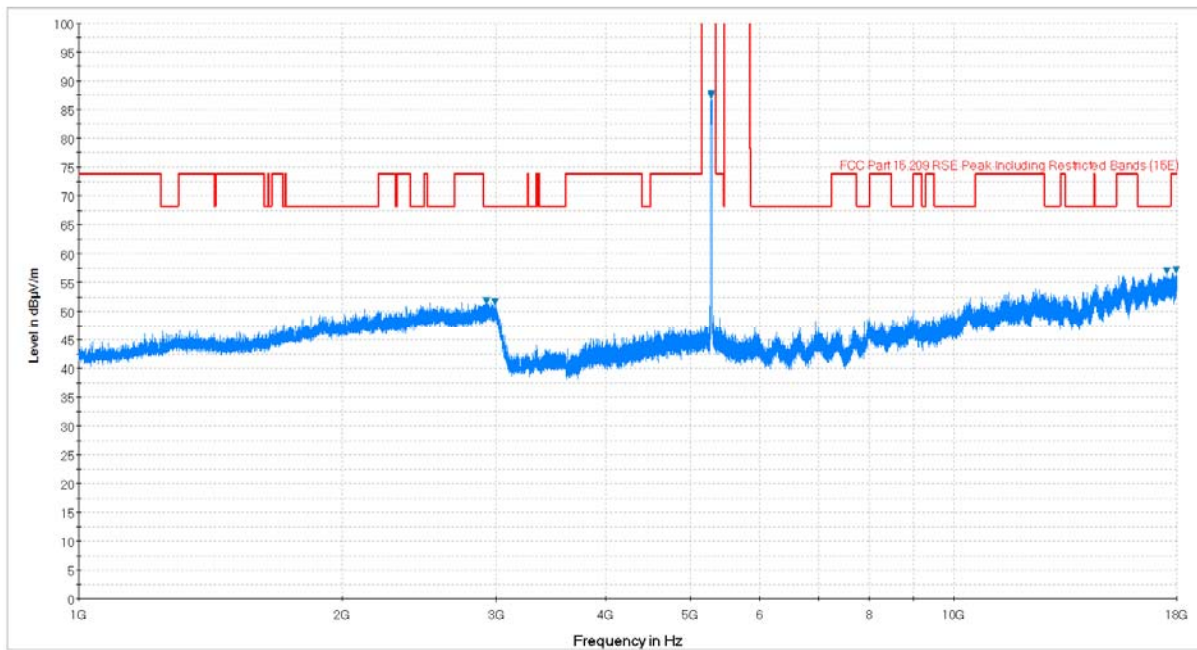


Plot 6-154. Radiated Spurious Plot above 1GHz (802.11a – U1 Ch. 40, Ant. Pol. V)

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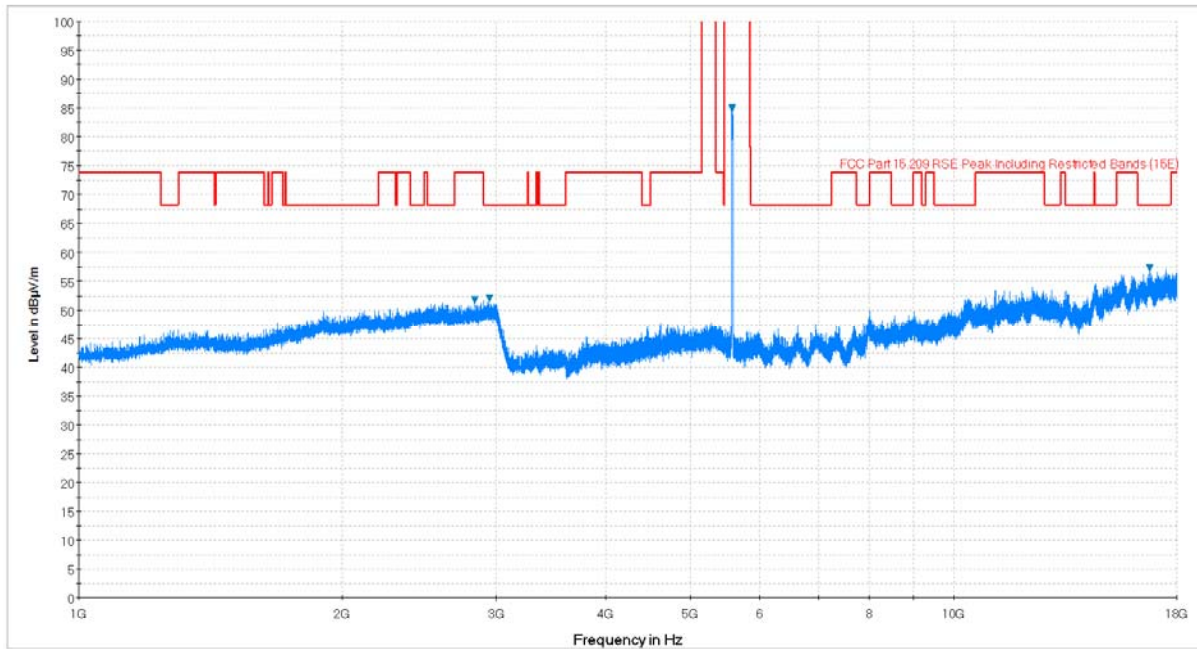


Plot 6-155. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. H)

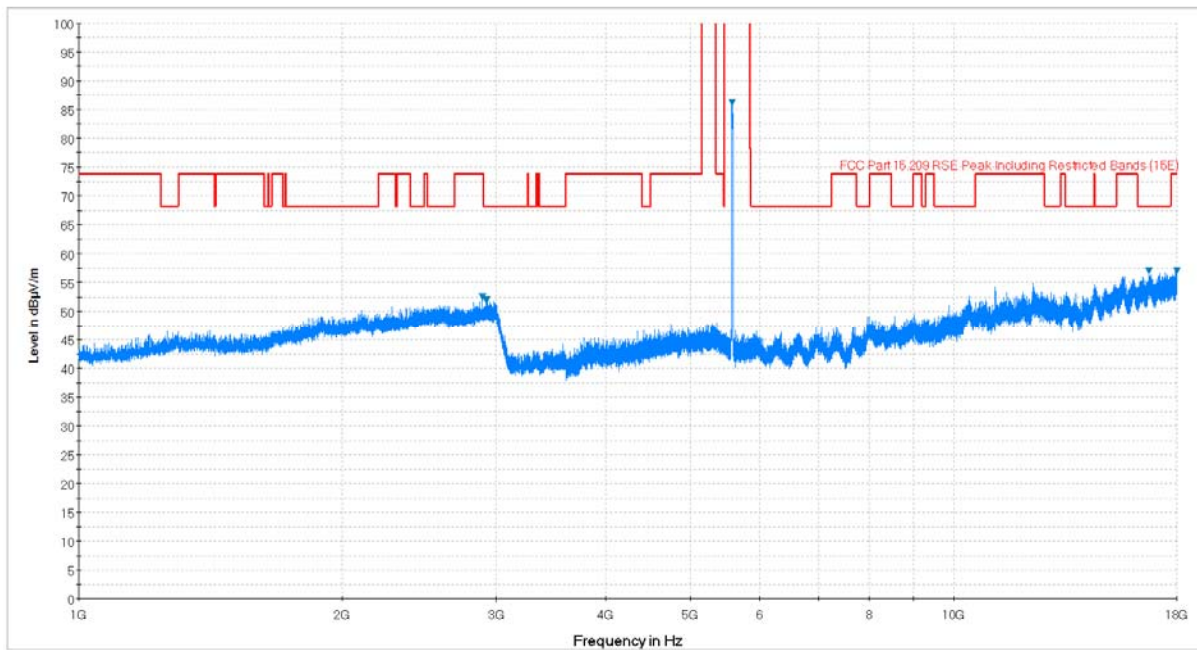


Plot 6-156. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. V)

FCC ID: A3LSMT817V	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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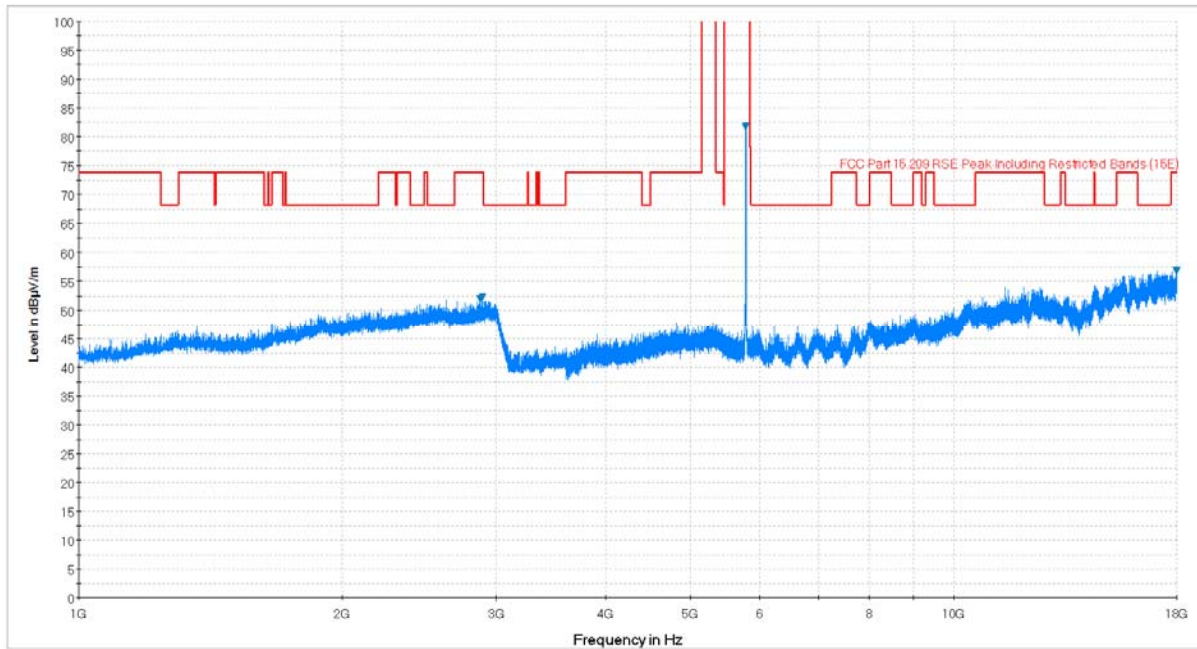


Plot 6-157. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 116, Ant. Pol. H)

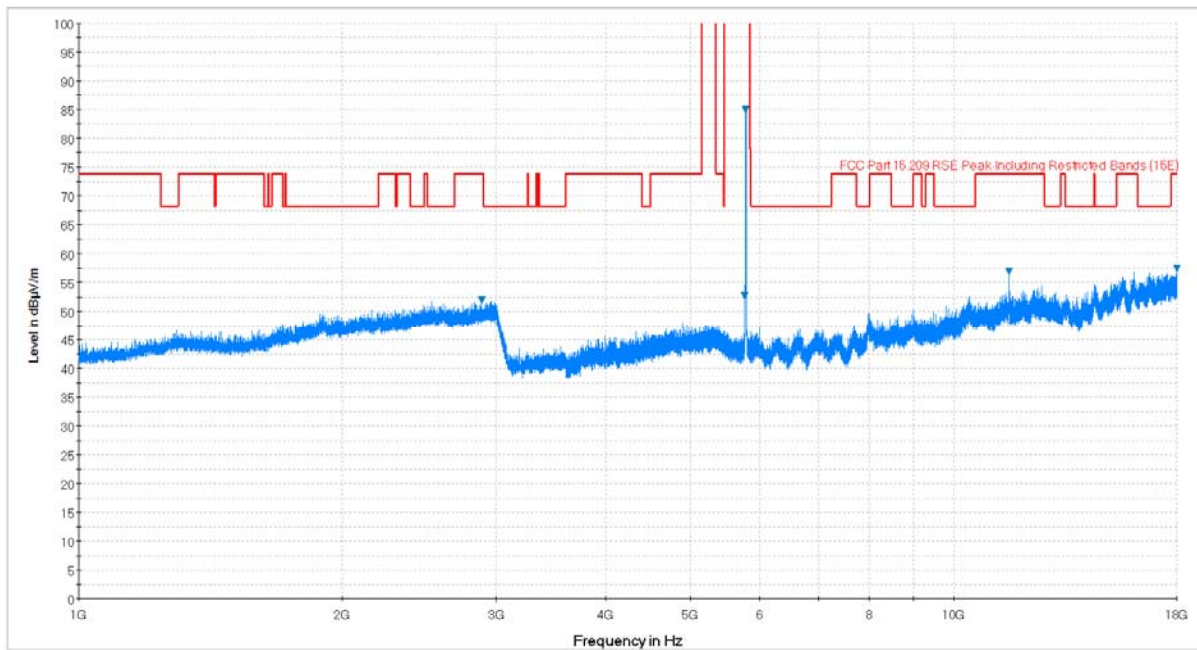


Plot 6-158. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 116, Ant. Pol. V)

FCC ID: A3LSMT817V	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 6-159. Radiated Spurious Plot above 1GHz (802.11a – U3 Ch. 157, Ant. Pol. H)



Plot 6-160. Radiated Spurious Plot above 1GHz (802.11a – U3 Ch. 157, Ant. Pol. V)

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Antenna-1 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209

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	-98.13	Peak	H	46.55	0.00	55.42	68.20	-12.78
* 15540.00	-112.34	Average	H	49.22	0.00	43.88	53.98	-10.10
* 15540.00	-100.12	Peak	H	49.22	0.00	56.10	73.98	-17.88
* 20720.00	-112.95	Average	H	44.20	-9.54	28.70	53.98	-25.27
* 20720.00	-104.17	Peak	H	44.20	-9.54	37.48	73.98	-36.49
25900.00	-103.34	Peak	H	45.08	-9.54	39.20	68.20	-29.00

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	-98.93	Peak	H	46.56	0.00	54.63	68.20	-13.57
* 15600.00	-112.16	Average	H	49.31	0.00	44.15	53.98	-9.83
* 15600.00	-100.19	Peak	H	49.31	0.00	56.12	73.98	-17.86
* 20800.00	-112.86	Average	H	44.20	-9.54	28.80	53.98	-25.17
* 20800.00	-104.32	Peak	H	44.20	-9.54	37.34	73.98	-36.63
26000.00	-104.41	Peak	H	45.11	-9.54	38.16	68.20	-30.04

Table 6-29. Radiated Measurements

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 119 of 212

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	-98.75	Peak	H	46.58	0.00	54.83	68.20	-13.37
* 15720.00	-112.28	Average	H	49.58	0.00	44.29	53.98	-9.69
* 15720.00	-100.62	Peak	H	49.58	0.00	55.95	73.98	-18.03
* 20960.00	-112.67	Average	H	44.19	-9.54	28.97	53.98	-25.01
* 20960.00	-103.66	Peak	H	44.19	-9.54	37.98	73.98	-36.00
26200.00	-103.18	Peak	H	44.95	-9.54	39.23	68.20	-28.97

Table 6-30. Radiated Measurements

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	-99.97	Peak	H	46.59	0.00	53.62	68.20	-14.58
* 15780.00	-112.10	Average	H	49.80	0.00	44.70	53.98	-9.28
* 15780.00	-100.13	Peak	H	49.80	0.00	56.67	73.98	-17.31
* 21040.00	-113.79	Average	H	44.18	-9.54	27.84	53.98	-26.14
* 21040.00	-103.15	Peak	H	44.18	-9.54	38.48	73.98	-35.50
26300.00	-113.08	Peak	H	44.95	-9.54	29.32	68.20	-38.88

Table 6-31. Radiated Measurements

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 120 of 212

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	-99.51	Peak	H	46.61	0.00	54.10	68.20	-14.10
* 15840.00	-112.07	Average	H	50.04	0.00	44.97	53.98	-9.01
* 15840.00	-100.44	Peak	H	50.04	0.00	56.60	73.98	-17.38
* 21120.00	-113.84	Average	H	44.17	-9.54	27.79	53.98	-26.19
* 21120.00	-103.62	Peak	H	44.17	-9.54	38.01	73.98	-35.97
26400.00	-102.80	Peak	H	45.01	-9.54	39.67	68.20	-28.53

Table 6-32. 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	-112.08	Average	H	46.64	0.00	41.56	53.98	-12.42
* 10640.00	-100.92	Peak	H	46.64	0.00	52.72	73.98	-21.26
* 15960.00	-112.37	Average	H	50.49	0.00	45.12	53.98	-8.86
* 15960.00	-100.87	Peak	H	50.49	0.00	56.62	73.98	-17.36
* 21280.00	-114.18	Average	H	44.18	-9.54	27.45	53.98	-26.53
* 21280.00	-104.57	Peak	H	44.18	-9.54	37.06	73.98	-36.92
26600.00	-103.63	Peak	H	47.61	-9.54	41.44	68.20	-26.76

Table 6-33. Radiated Measurements

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 121 of 212

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	-111.03	Average	H	46.98	0.00	42.95	53.98	-11.03
*	11000.00	-100.02	Peak	H	46.98	0.00	53.96	73.98	-20.02
	16500.00	-101.07	Peak	H	52.45	0.00	58.37	68.20	-9.83
	22000.00	-104.55	Peak	H	44.47	-9.54	37.38	68.20	-30.82
	27500.00	-105.39	Peak	H	47.92	-9.54	39.99	68.20	-28.21

Table 6-34. 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	-111.35	Average	H	47.20	0.00	42.86	53.98	-11.12
*	11160.00	-100.18	Peak	H	47.20	0.00	54.03	73.98	-19.95
	16740.00	-111.73	Peak	H	53.73	0.00	49.00	68.20	-19.20
*	22320.00	-112.55	Average	H	44.59	-9.54	29.51	53.98	-24.47
*	22320.00	-104.09	Peak	H	44.59	-9.54	37.97	73.98	-36.01
	27900.00	-104.69	Peak	H	48.09	-9.54	40.86	68.20	-27.34

Table 6-35. Radiated Measurements

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 122 of 212

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	-109.11	Average	H	47.64	0.00	45.53	53.98	-8.45
11440.00	-97.75	Peak	H	47.64	0.00	56.89	73.98	-17.09
17160.00	-100.88	Peak	H	54.67	0.00	60.79	68.20	-7.41
22880.00	-113.08	Average	H	44.62	-9.54	29.00	53.98	-24.98
22880.00	-104.66	Peak	H	44.62	-9.54	37.42	73.98	-36.56
28600.00	-104.33	Peak	H	48.35	-9.54	41.48	68.20	-26.72

Table 6-36. Radiated Measurements

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	-110.71	Average	H	47.88	0.00	44.17	53.98	-9.81
* 11490.00	-99.08	Peak	H	47.88	0.00	55.80	73.98	-18.18
17235.00	-100.18	Peak	H	54.99	0.00	61.81	68.20	-6.39
* 22980.00	-113.07	Average	H	44.64	-9.54	29.02	53.98	-24.96
* 22980.00	-104.81	Peak	H	44.64	-9.54	37.28	73.98	-36.70
28725.00	-103.92	Peak	H	48.26	-9.54	41.80	68.20	-26.40

Table 6-37. Radiated Measurements

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 123 of 212

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	-108.25	Average	H	48.15	0.00	46.90	53.98	-7.08
* 11570.00	-96.14	Peak	H	48.15	0.00	59.01	73.98	-14.97
17355.00	-100.37	Peak	H	55.40	0.00	62.03	68.20	-6.17
23140.00	-103.61	Peak	H	44.73	-9.54	38.58	68.20	-29.62
28925.00	-103.85	Peak	H	48.28	-9.54	41.88	68.20	-26.32

Table 6-38. Radiated Measurements

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

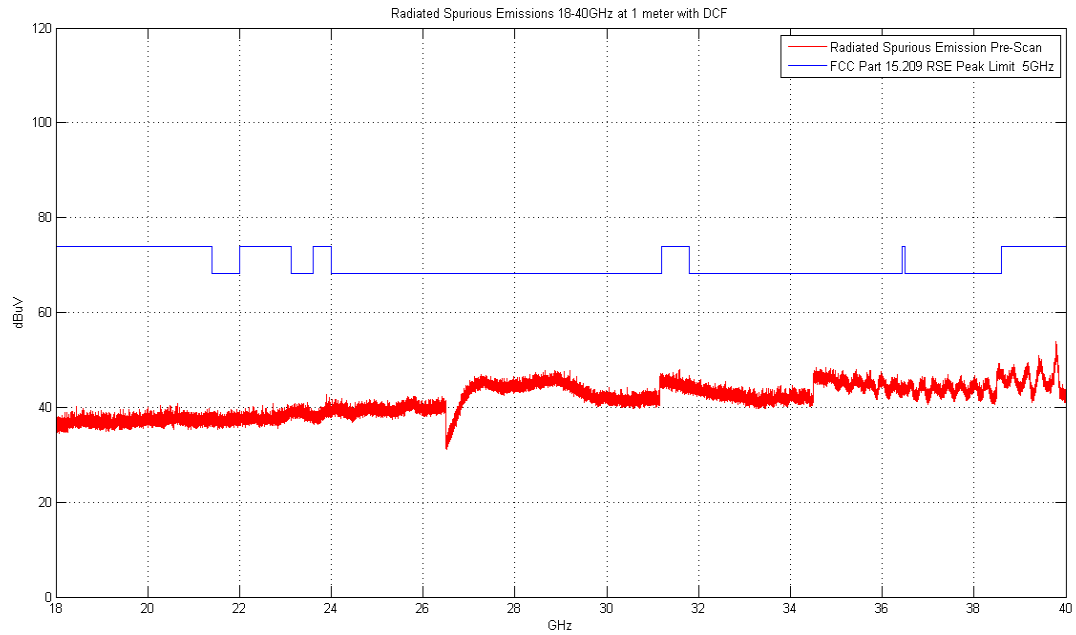
Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	-112.95	Average	H	48.38	0.00	42.43	53.98	-11.55
* 11650.00	-100.60	Peak	H	48.38	0.00	54.78	73.98	-19.20
17475.00	-104.82	Peak	H	56.02	0.00	58.20	68.20	-10.00
23300.00	-102.71	Peak	H	44.76	-9.54	39.51	68.20	-28.69
29125.00	-105.39	Peak	H	48.24	-9.54	40.31	68.20	-27.89

Table 6-39. Radiated Measurements

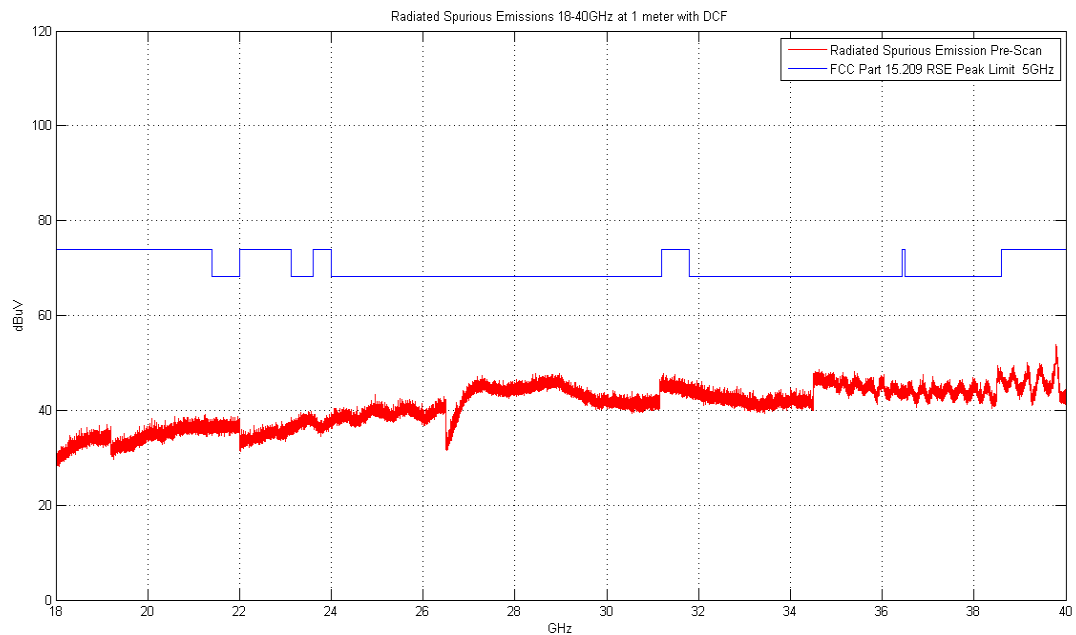
FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 124 of 212

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

§15.209



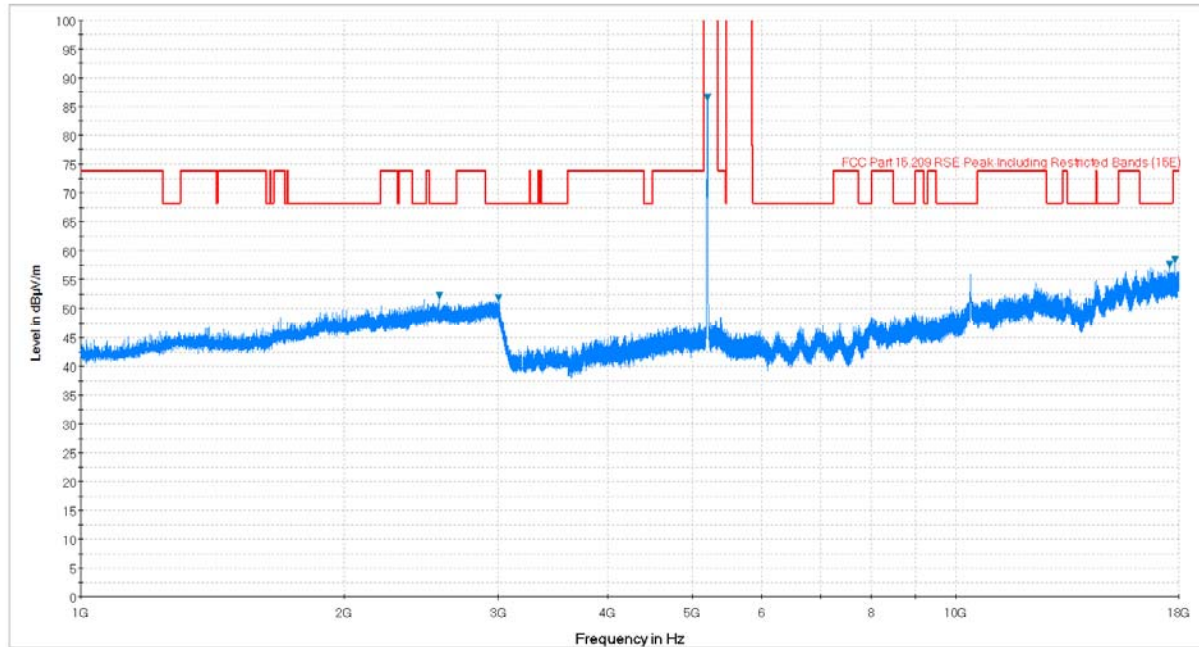
Plot 6-161. Radiated Spurious Plot above 18GHz (802.11a – Ant. Pol. H)



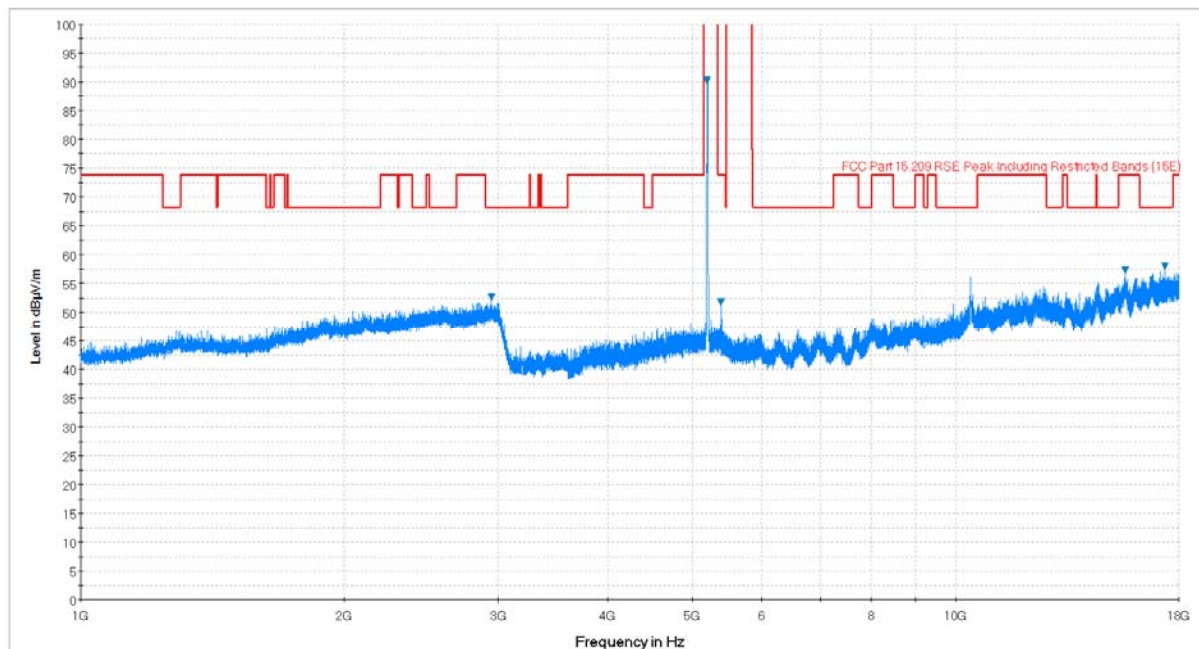
Plot 6-162. Radiated Spurious Plot above 18GHz (802.11a – Ant. Pol. V)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 125 of 212

6.7.2 Antenna-2 Radiated Spurious Emission Measurements

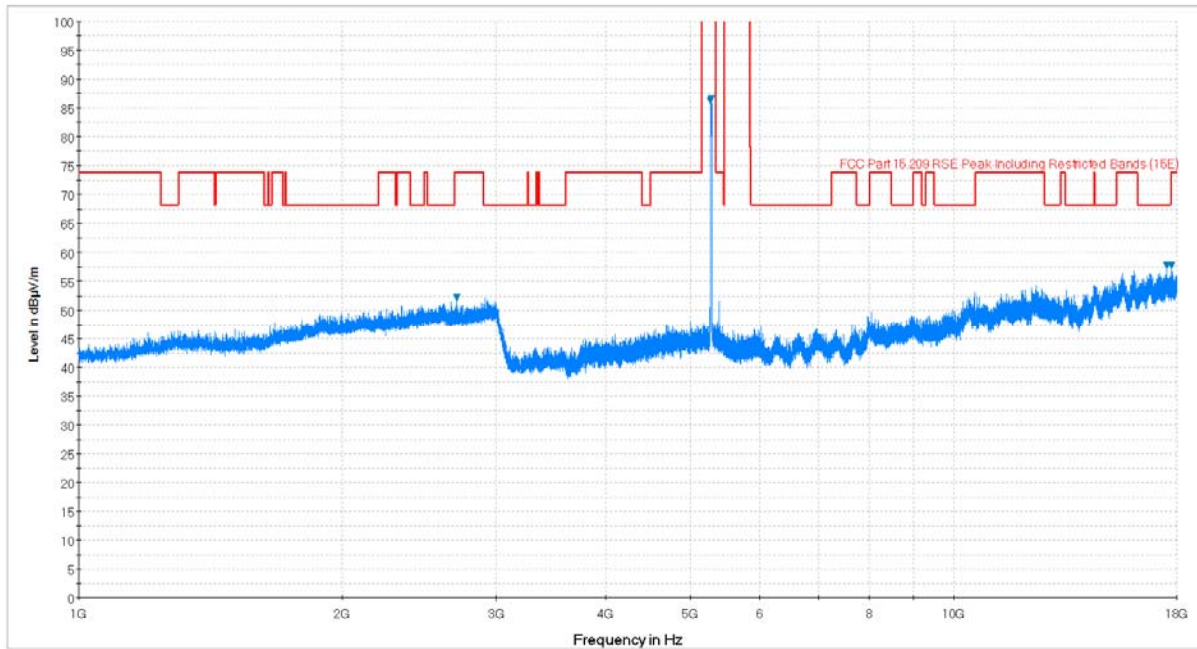


Plot 6-163. Radiated Spurious Plot above 1GHz (802.11a – U1 Ch. 40, Ant. Pol. H)

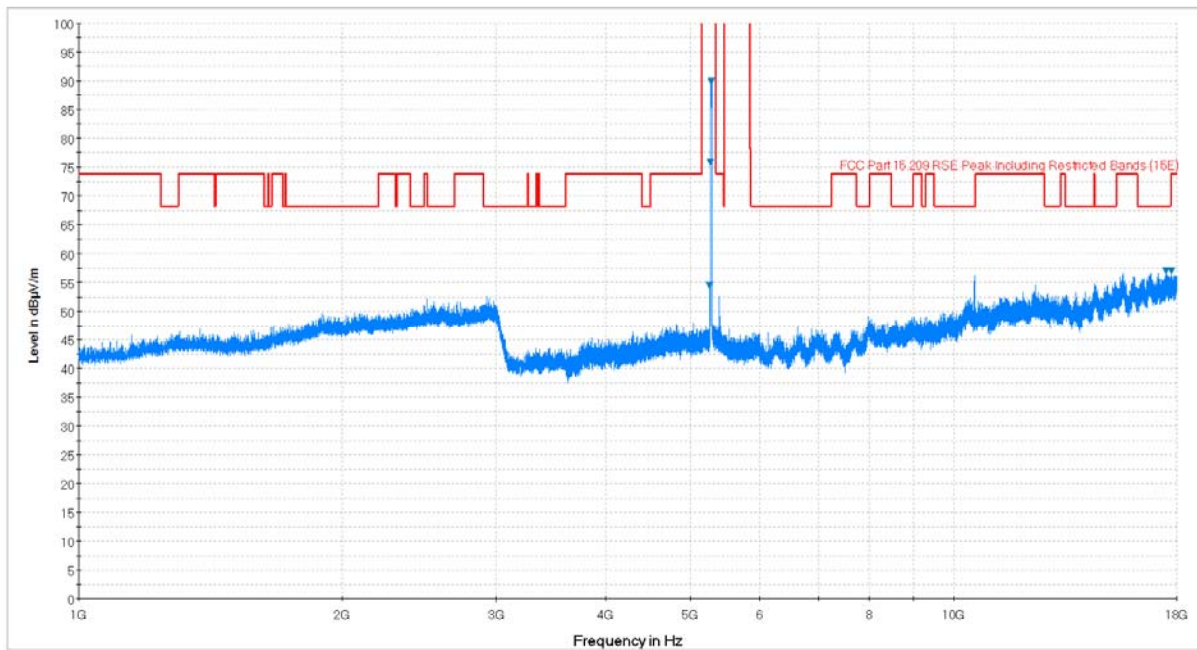


Plot 6-164. Radiated Spurious Plot above 1GHz (802.11a – U1 Ch. 40, Ant. Pol. V)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 126 of 212

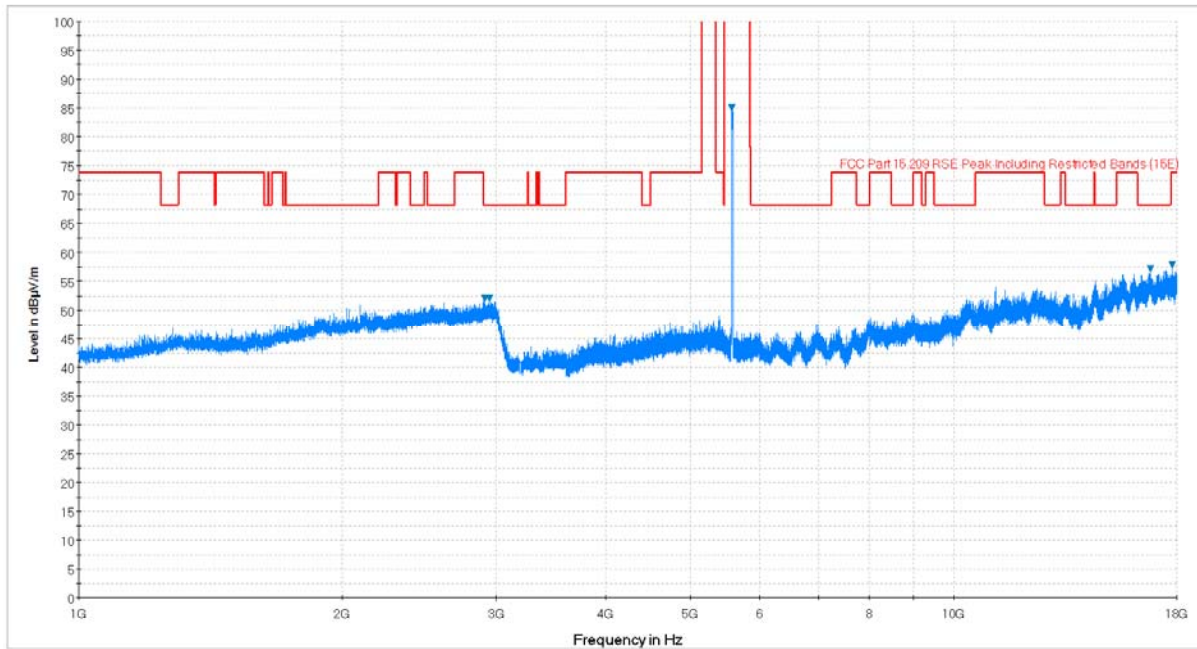


Plot 6-165. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. H)

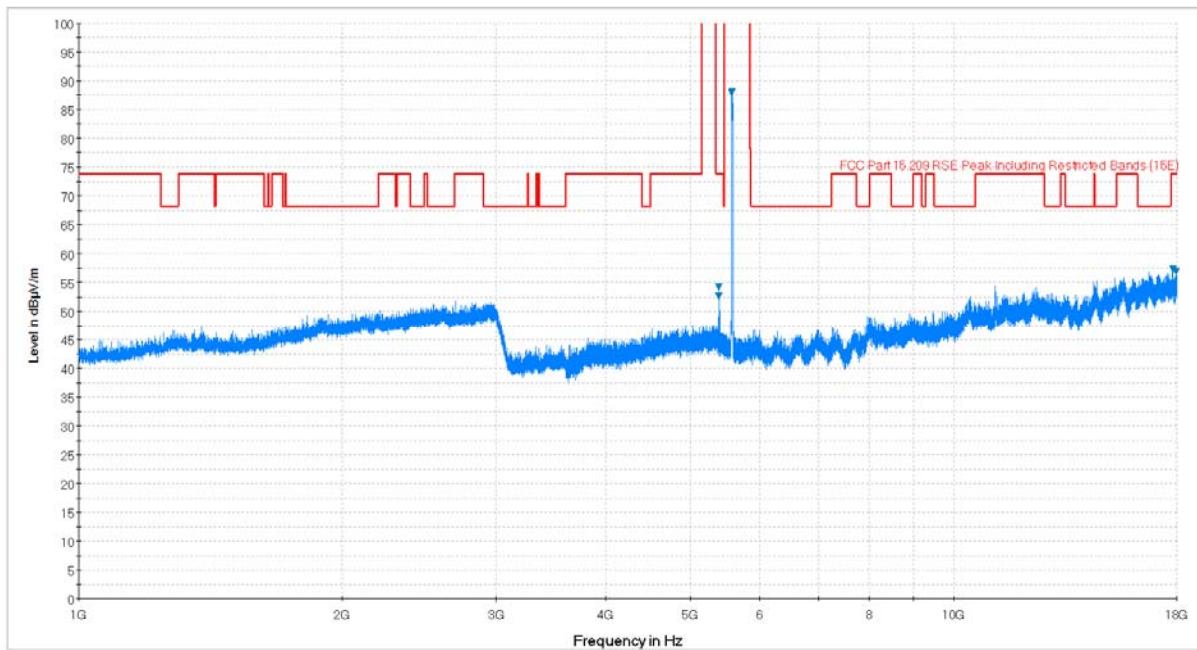


Plot 6-166. Radiated Spurious Plot above 1GHz (802.11a – U2A Ch. 56, Ant. Pol. V)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 127 of 212

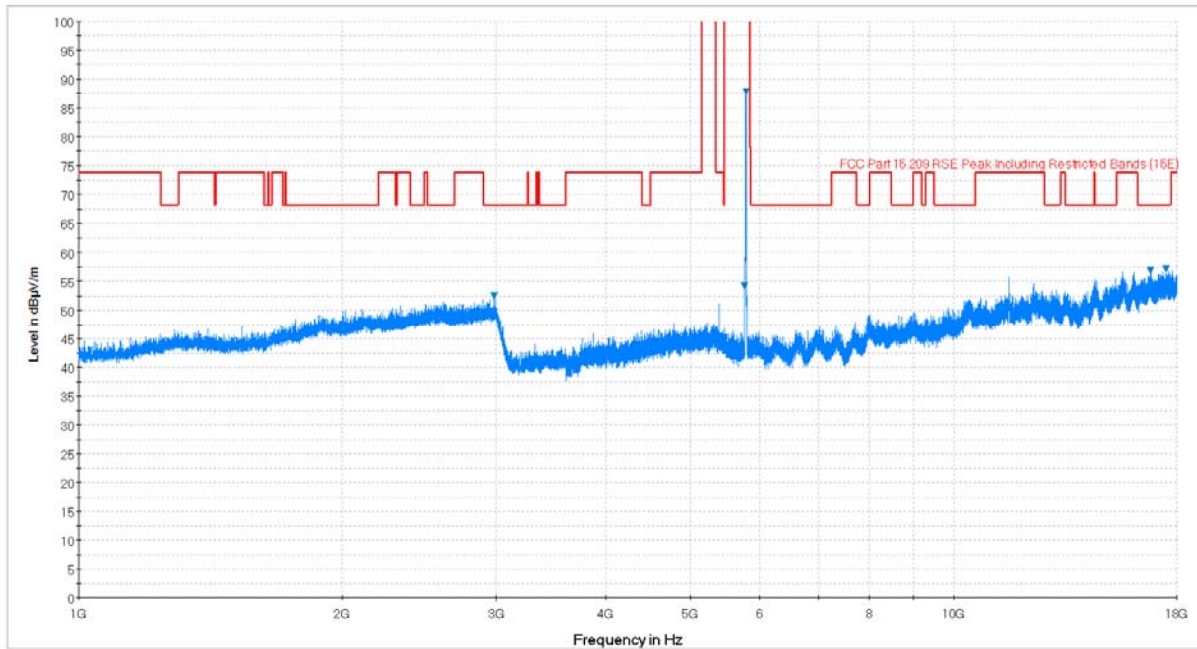


Plot 6-167. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 116, Ant. Pol. H)

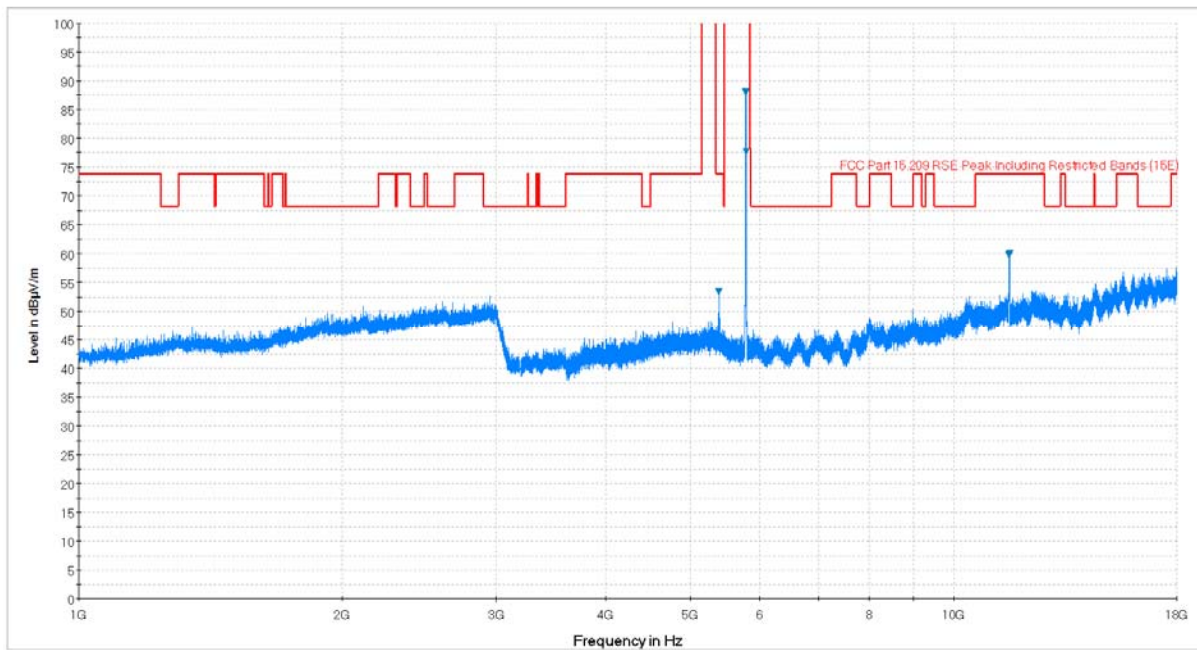


Plot 6-168. Radiated Spurious Plot above 1GHz (802.11a – U2C Ch. 116, Ant. Pol. V)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 128 of 212



Plot 6-169. Radiated Spurious Plot above 1GHz (802.11a – U3 Ch. 157, Ant. Pol. H)



Plot 6-170. Radiated Spurious Plot above 1GHz (802.11a – U3 Ch. 157, Ant. Pol. V)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 129 of 212

Antenna-2 Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209

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	-95.45	Peak	H	46.55	0.00	58.10	68.20	-10.10
* 15540.00	-112.15	Average	H	49.22	0.00	44.07	53.98	-9.91
* 15540.00	-101.18	Peak	H	49.22	0.00	55.04	73.98	-18.94
* 20720.00	-112.94	Average	H	44.20	-9.54	28.71	53.98	-25.26
* 20720.00	-105.62	Peak	H	44.20	-9.54	36.03	73.98	-37.94
25900.00	-104.61	Peak	H	45.08	-9.54	37.93	68.20	-30.27

Table 6-40. 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	-96.65	Peak	H	46.56	0.00	56.91	68.20	-11.29
* 15600.00	-112.23	Average	H	49.31	0.00	44.08	53.98	-9.90
* 15600.00	-101.22	Peak	H	49.31	0.00	55.09	73.98	-18.89
* 20800.00	-112.59	Average	H	44.20	-9.54	29.07	53.98	-24.90
* 20800.00	-102.36	Peak	H	44.20	-9.54	39.30	73.98	-34.67
26000.00	-104.91	Peak	H	45.11	-9.54	37.66	68.20	-30.54

Table 6-41. Radiated Measurements

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 130 of 212

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	-97.44	Peak	H	46.58	0.00	56.14	68.20	-12.06
* 15720.00	-112.02	Average	H	49.58	0.00	44.55	53.98	-9.43
* 15720.00	-100.96	Peak	H	49.58	0.00	55.61	73.98	-18.37
* 20960.00	-113.21	Average	H	44.19	-9.54	28.43	53.98	-25.55
* 20960.00	-101.74	Peak	H	44.19	-9.54	39.90	73.98	-34.08
26200.00	-103.84	Peak	H	44.95	-9.54	38.57	68.20	-29.63

Table 6-42. Radiated Measurements

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	-97.36	Peak	H	46.59	0.00	56.23	68.20	-11.97
* 15780.00	-113.45	Average	H	49.80	0.00	43.35	53.98	-10.63
* 15780.00	-100.62	Peak	H	49.80	0.00	56.18	73.98	-17.80
* 21040.00	-113.76	Average	H	44.18	-9.54	27.87	53.98	-26.11
* 21040.00	-103.79	Peak	H	44.18	-9.54	37.84	73.98	-36.14
26300.00	-103.72	Peak	H	44.95	-9.54	38.68	68.20	-29.52

Table 6-43. Radiated Measurements

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 131 of 212

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	-99.42	Peak	H	46.61	0.00	54.19	68.20	-14.01
* 15840.00	-113.66	Average	H	50.04	0.00	43.38	53.98	-10.60
* 15840.00	-103.31	Peak	H	50.04	0.00	53.73	73.98	-20.25
* 21120.00	-113.45	Average	H	44.17	-9.54	28.18	53.98	-25.80
* 21120.00	-104.15	Peak	H	44.17	-9.54	37.48	73.98	-36.50
26400.00	-101.94	Peak	H	45.01	-9.54	40.53	68.20	-27.67

Table 6-44. 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	-111.27	Average	H	46.64	0.00	42.37	53.98	-11.61
* 10640.00	-100.58	Peak	H	46.64	0.00	53.06	73.98	-20.92
* 15960.00	-113.73	Average	H	50.49	0.00	43.76	53.98	-10.22
* 15960.00	-102.40	Peak	H	50.49	0.00	55.09	73.98	-18.89
* 21280.00	-113.92	Average	H	44.18	-9.54	27.71	53.98	-26.27
* 21280.00	-103.46	Peak	H	44.18	-9.54	38.17	73.98	-35.81
26600.00	-104.59	Peak	H	47.61	-9.54	40.48	68.20	-27.72

Table 6-45. Radiated Measurements

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 132 of 212

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	-111.45	Average	H	46.98	0.00	42.53	53.98	-11.45
*	11000.00	-100.33	Peak	H	46.98	0.00	53.65	73.98	-20.33
	16500.00	-103.96	Peak	H	52.45	0.00	55.48	68.20	-12.72
	22000.00	-104.41	Peak	H	44.47	-9.54	37.52	68.20	-30.68
	27500.00	-105.52	Peak	H	47.92	-9.54	39.86	68.20	-28.34

Table 6-46. 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	-110.44	Average	H	47.20	0.00	43.77	53.98	-10.21
*	11160.00	-99.53	Peak	H	47.20	0.00	54.68	73.98	-19.30
	16740.00	-101.90	Peak	H	53.73	0.00	58.83	68.20	-9.37
*	22320.00	-112.78	Average	H	44.59	-9.54	29.28	53.98	-24.70
*	22320.00	-103.53	Peak	H	44.59	-9.54	38.53	73.98	-35.45
	27900.00	-103.67	Peak	H	48.09	-9.54	41.88	68.20	-26.32

Table 6-47. Radiated Measurements

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 133 of 212

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	-108.09	Average	H	47.64	0.00	46.55	53.98	-7.43
11440.00	-96.49	Peak	H	47.64	0.00	58.15	73.98	-15.83
17160.00	-102.36	Peak	H	54.67	0.00	59.31	68.20	-8.89
22880.00	-113.68	Average	H	44.62	-9.54	28.40	53.98	-25.58
22880.00	-105.56	Peak	H	44.62	-9.54	36.52	73.98	-37.46
28600.00	-105.83	Peak	H	48.35	-9.54	39.98	68.20	-28.22

Table 6-48. Radiated Measurements

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	-110.07	Average	H	47.88	0.00	44.81	53.98	-9.17
* 11490.00	-98.66	Peak	H	47.88	0.00	56.22	73.98	-17.76
17235.00	-102.41	Peak	H	54.99	0.00	59.58	68.20	-8.62
* 22980.00	-113.98	Average	H	44.64	-9.54	28.11	53.98	-25.87
* 22980.00	-105.26	Peak	H	44.64	-9.54	36.83	73.98	-37.15
28725.00	-104.87	Peak	H	48.26	-9.54	40.85	68.20	-27.35

Table 6-49. Radiated Measurements

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 134 of 212

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	-110.53	Average	H	48.15	0.00	44.62	53.98	-9.36
* 11570.00	-99.63	Peak	H	48.15	0.00	55.52	73.98	-18.46
17355.00	-113.46	Peak	H	55.40	0.00	48.94	68.20	-19.26
23140.00	-104.17	Peak	H	44.73	-9.54	38.02	68.20	-30.18
28925.00	-104.17	Peak	H	48.28	-9.54	41.56	68.20	-26.64

Table 6-50. Radiated Measurements

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

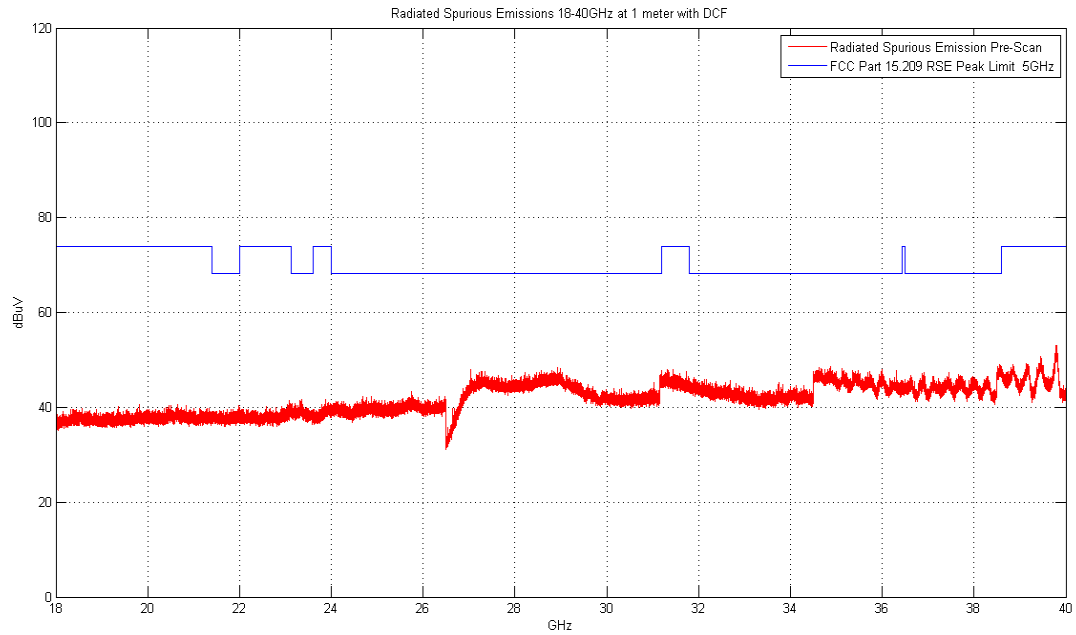
Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	-111.62	Average	H	48.38	0.00	43.76	53.98	-10.22
* 11650.00	-101.59	Peak	H	48.38	0.00	53.79	73.98	-20.19
17475.00	-103.81	Peak	H	56.02	0.00	59.21	68.20	-8.99
23300.00	-103.64	Peak	H	44.76	-9.54	38.58	68.20	-29.62
29125.00	-104.09	Peak	H	48.24	-9.54	41.61	68.20	-26.59

Table 6-51. Radiated Measurements

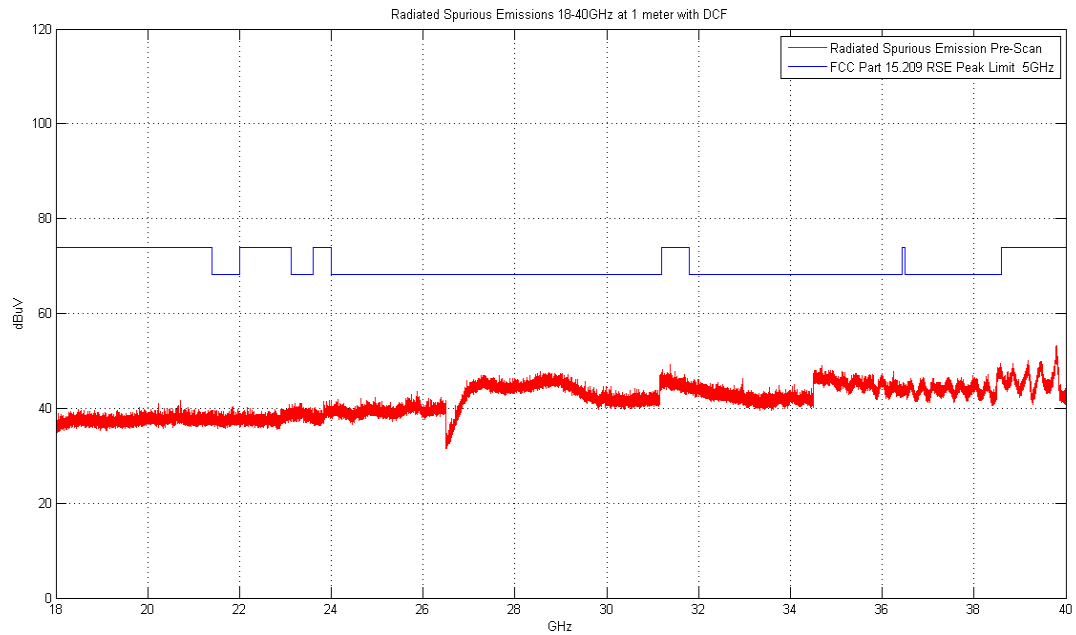
FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 135 of 212

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: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 136 of 212

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

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

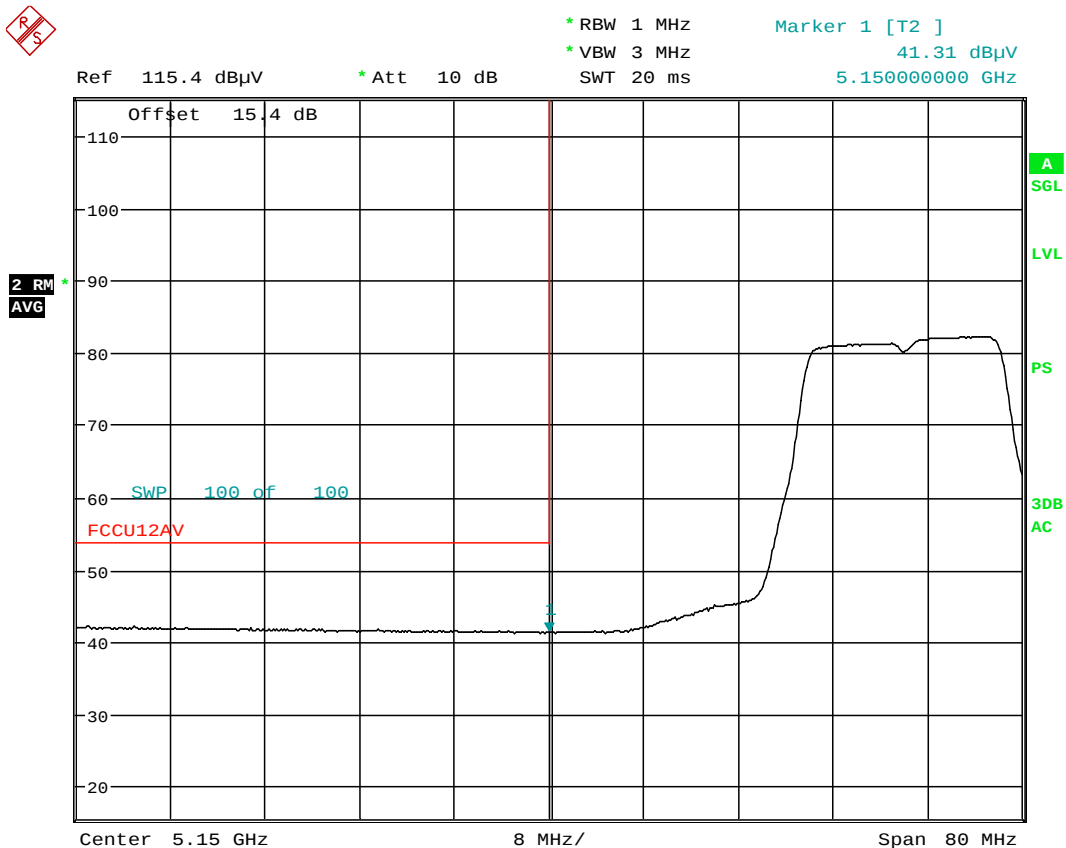
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36

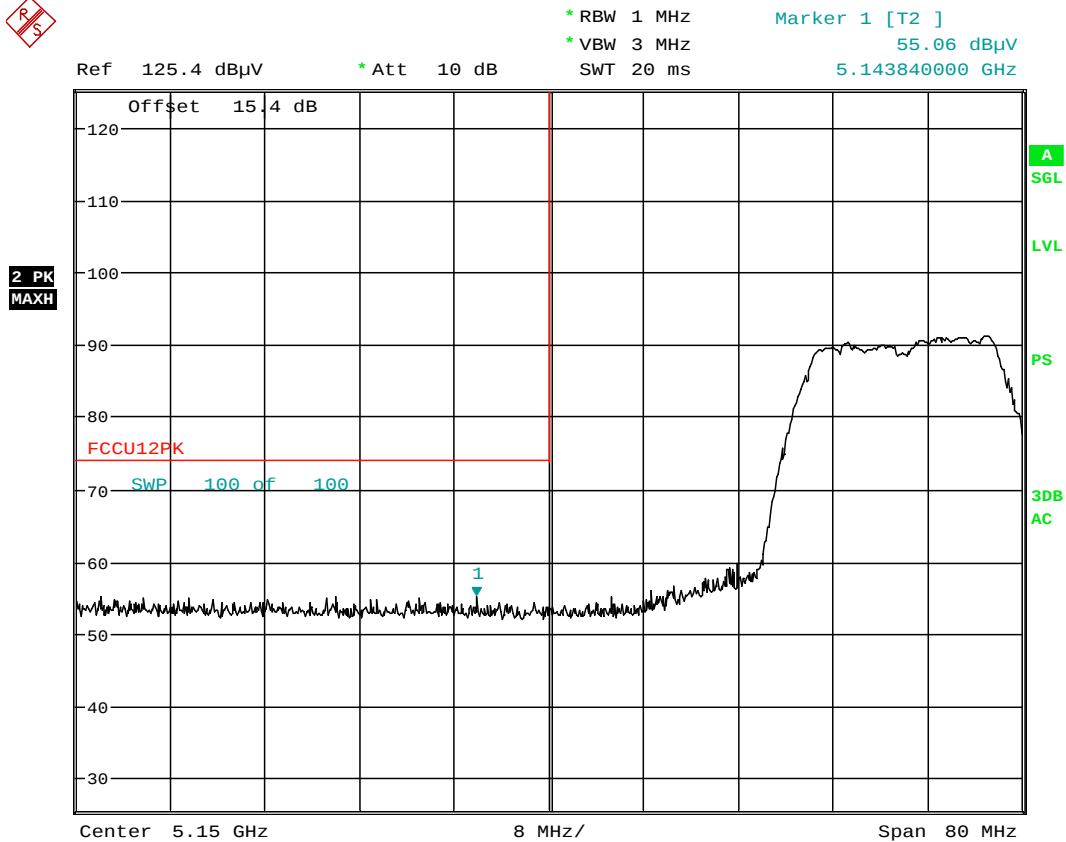


Date: 27.APR.2015 20:02:04

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 137 of 212

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



Date: 27.APR.2015 20:02:34

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

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 138 of 212

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

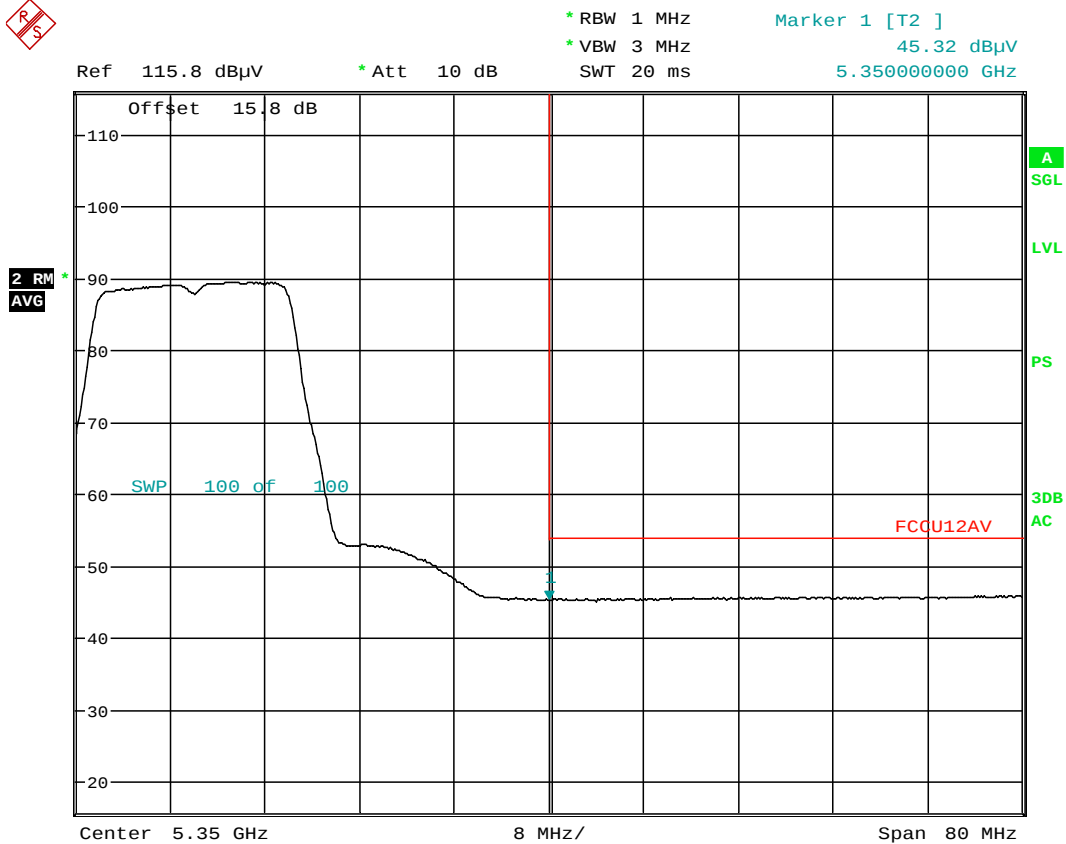
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64

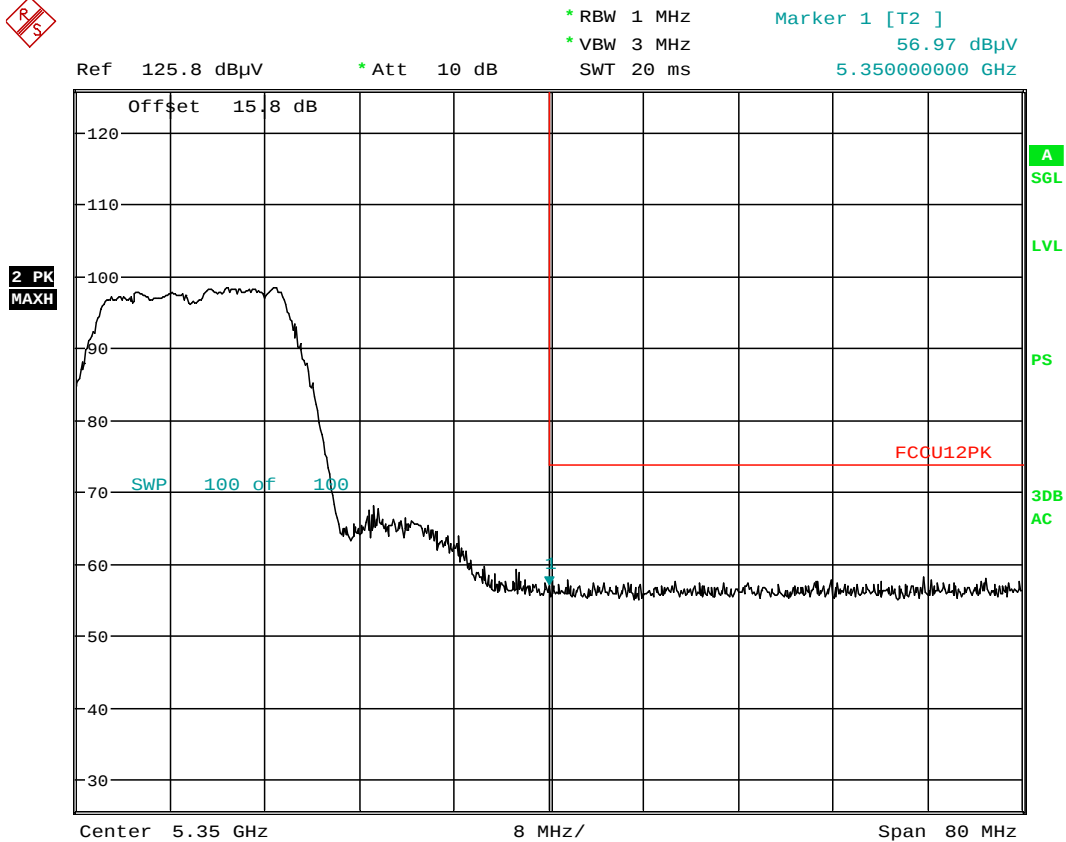


Date: 27.APR.2015 20:20:31

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 139 of 212

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



Date: 27.APR.2015 20:21:14

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 140 of 212

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

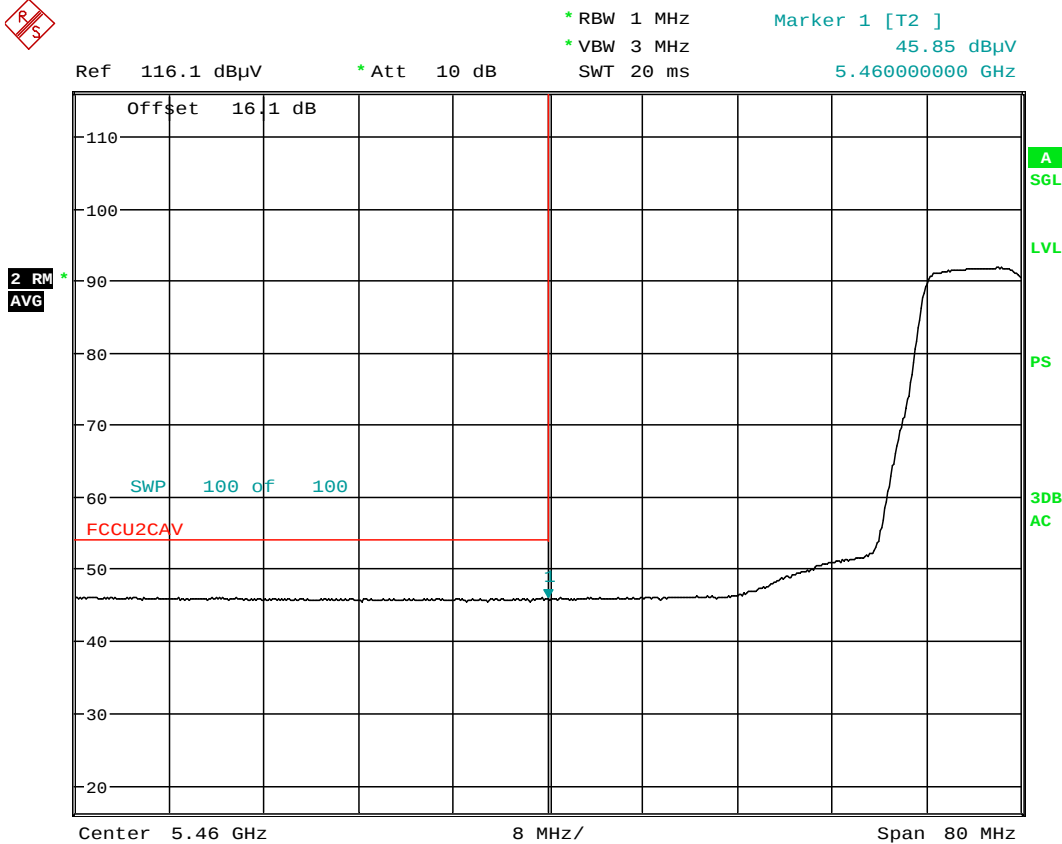
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

Channel: 100



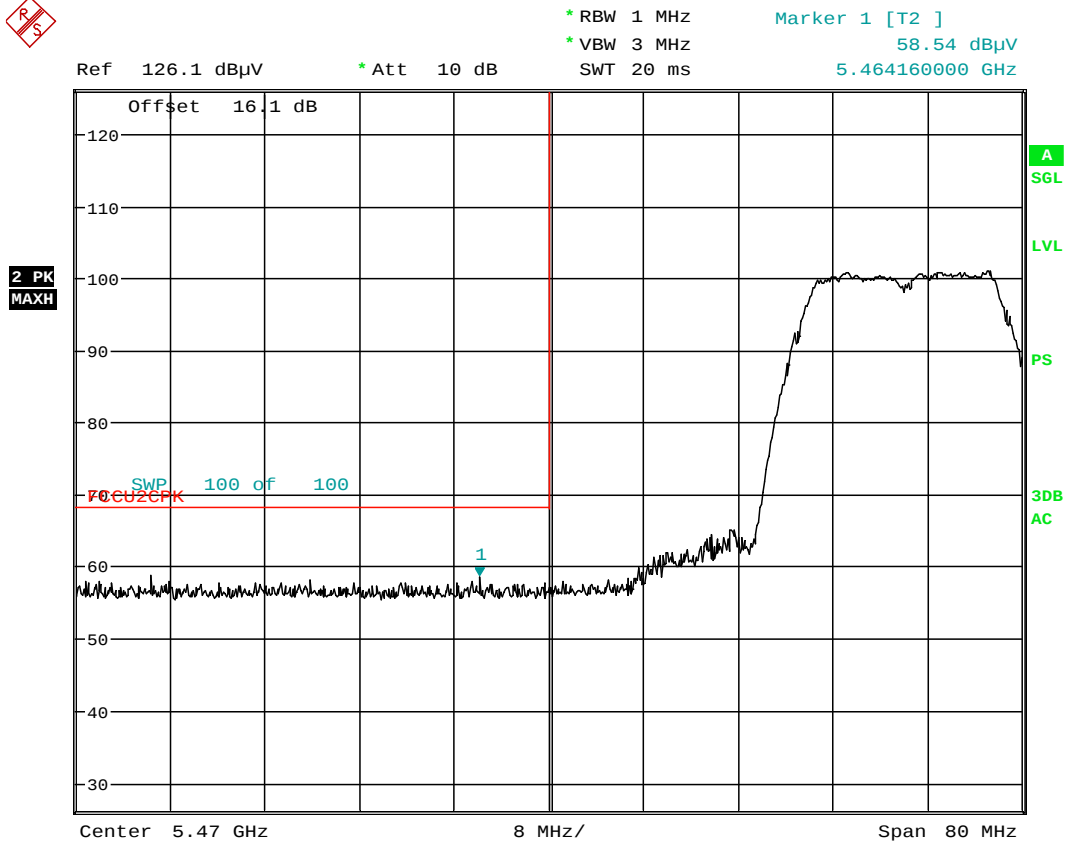
Date: 27.APR.2015 20:32:23

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 141 of 212

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

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



Date: 27.APR.2015 20:32:52

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 142 of 212

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

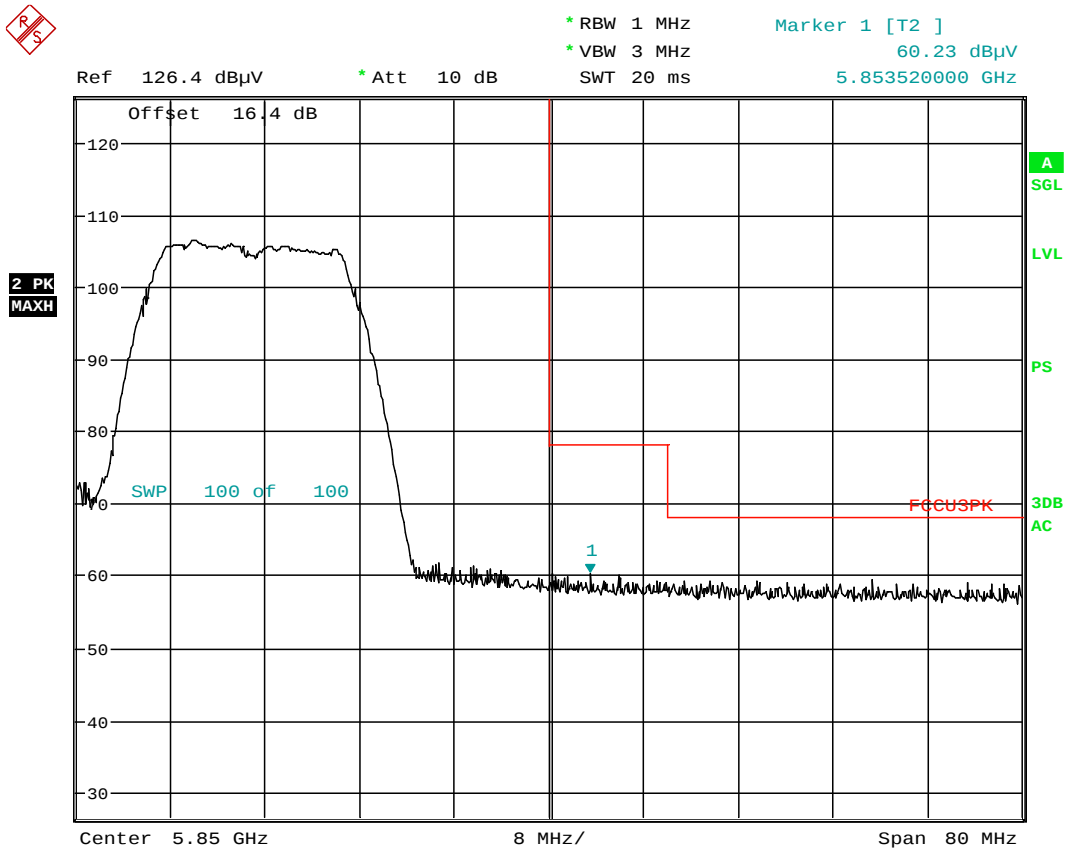
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5825MHz

Channel: 165



Date: 27.APR.2015 20:45:00

Plot 6-179. Radiated Upper Band Edge Plot (Peak – UNII Band 3)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 143 of 212

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

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

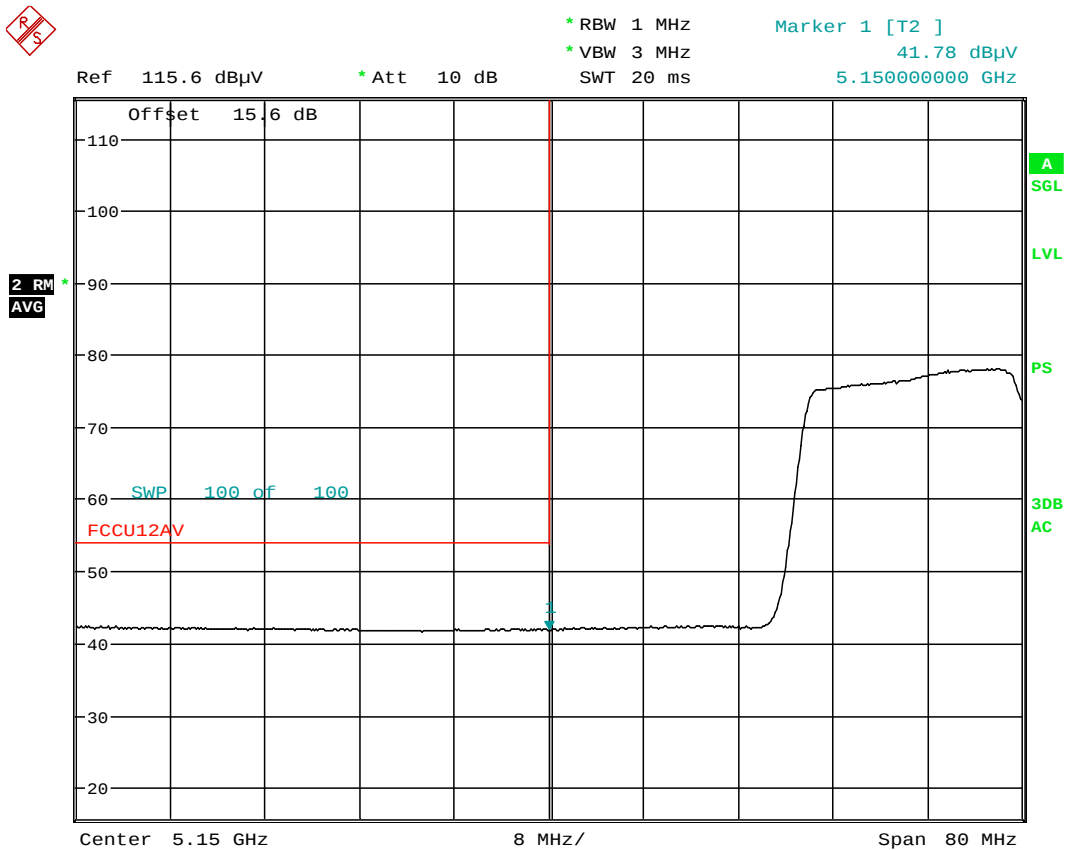
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38

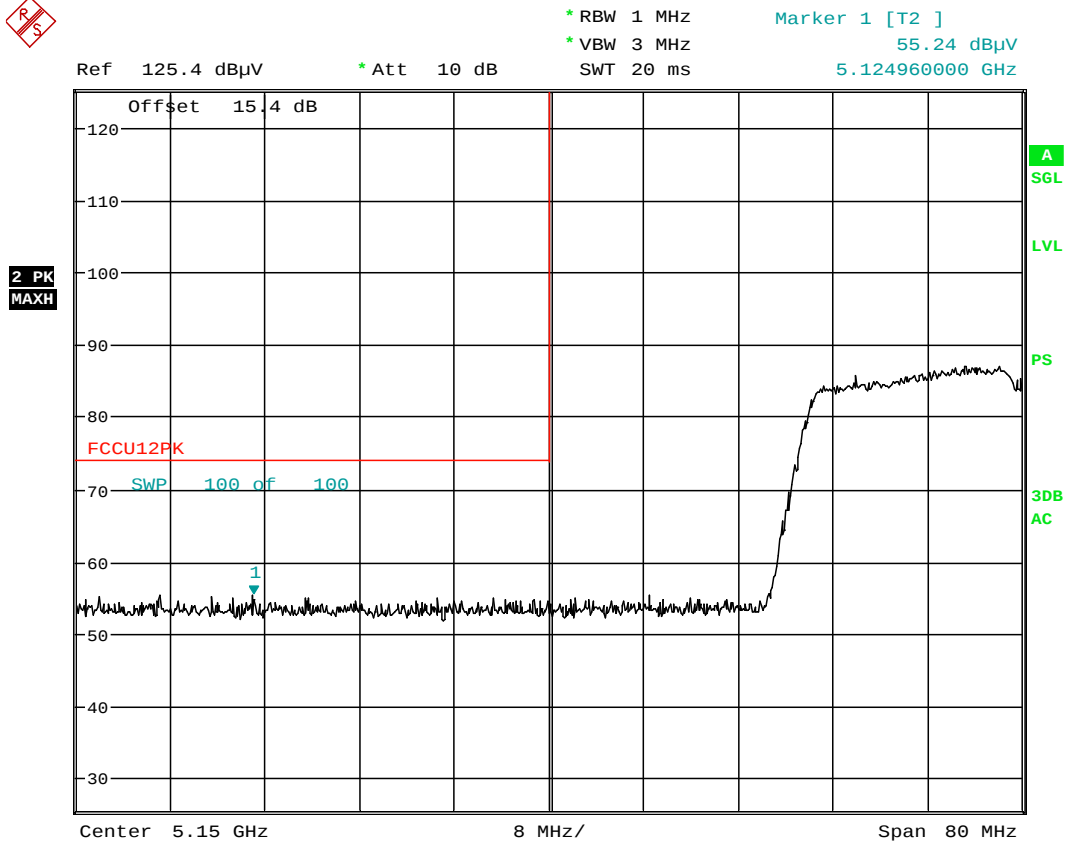


Date: 27.APR.2015 20:09:53

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 144 of 212

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



Date: 27.APR.2015 20:10:35

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

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 145 of 212

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

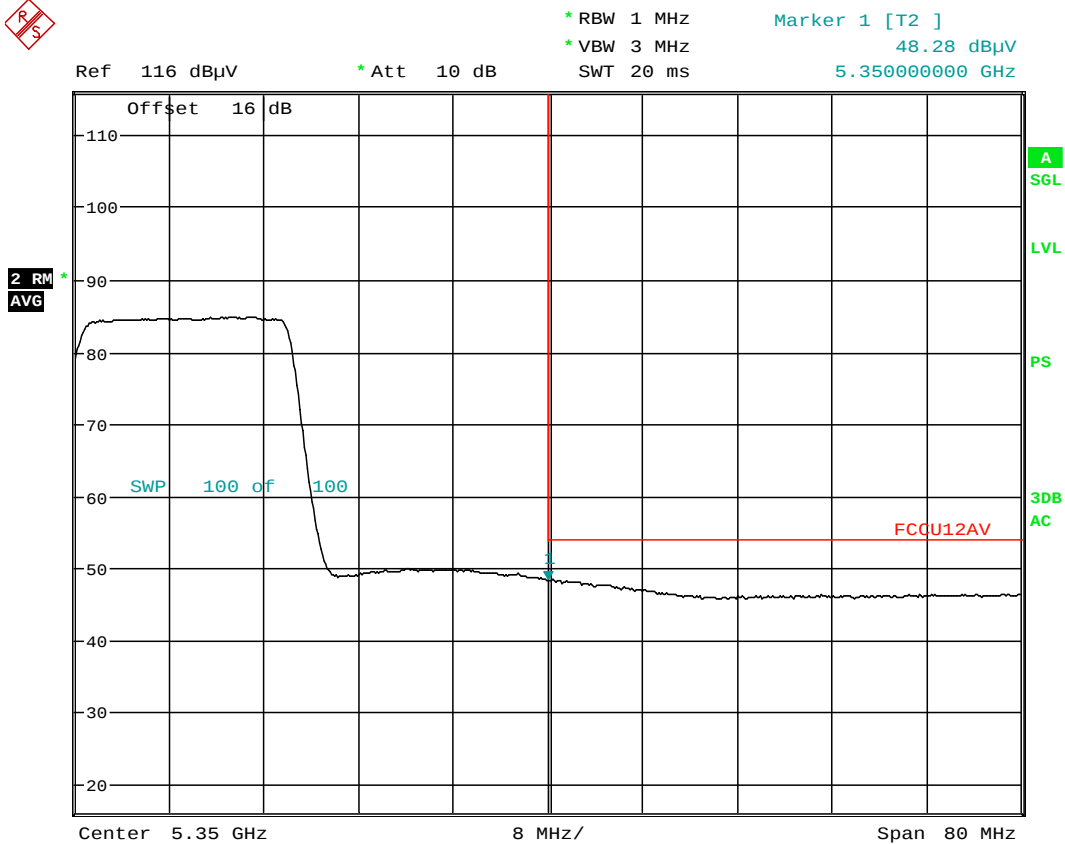
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62

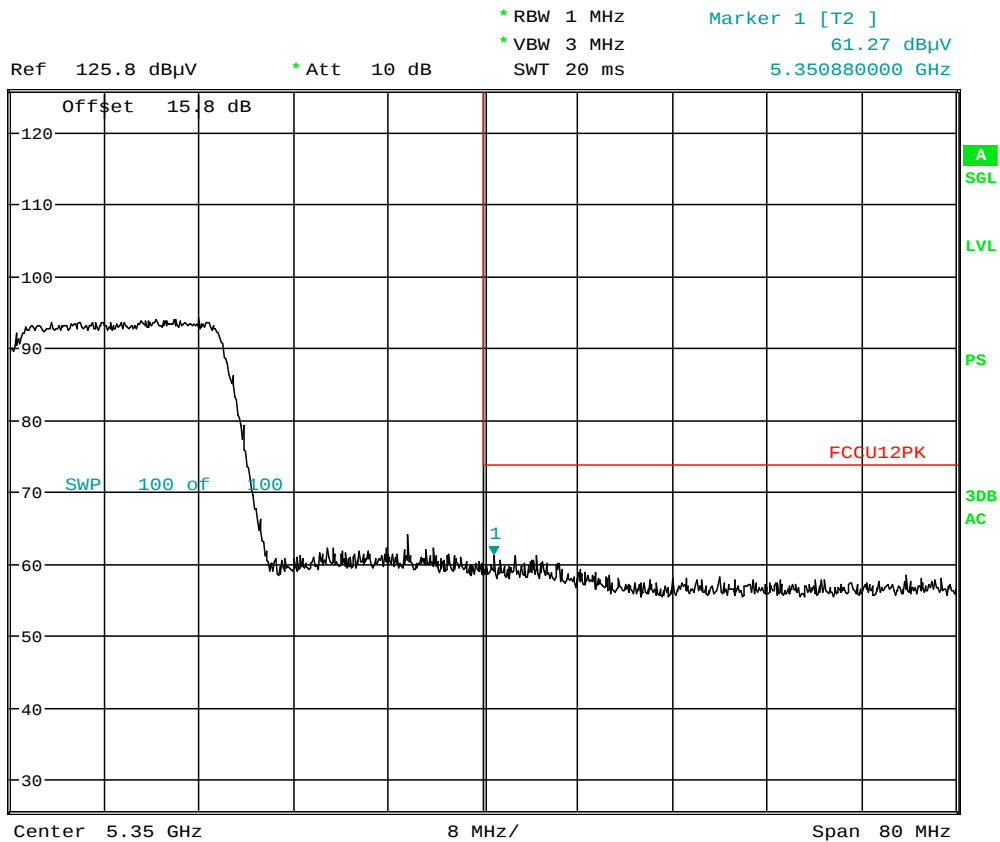


Date: 27.APR.2015 20:23:11

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 146 of 212

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



Date: 27.APR.2015 20:23:57

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 147 of 212

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

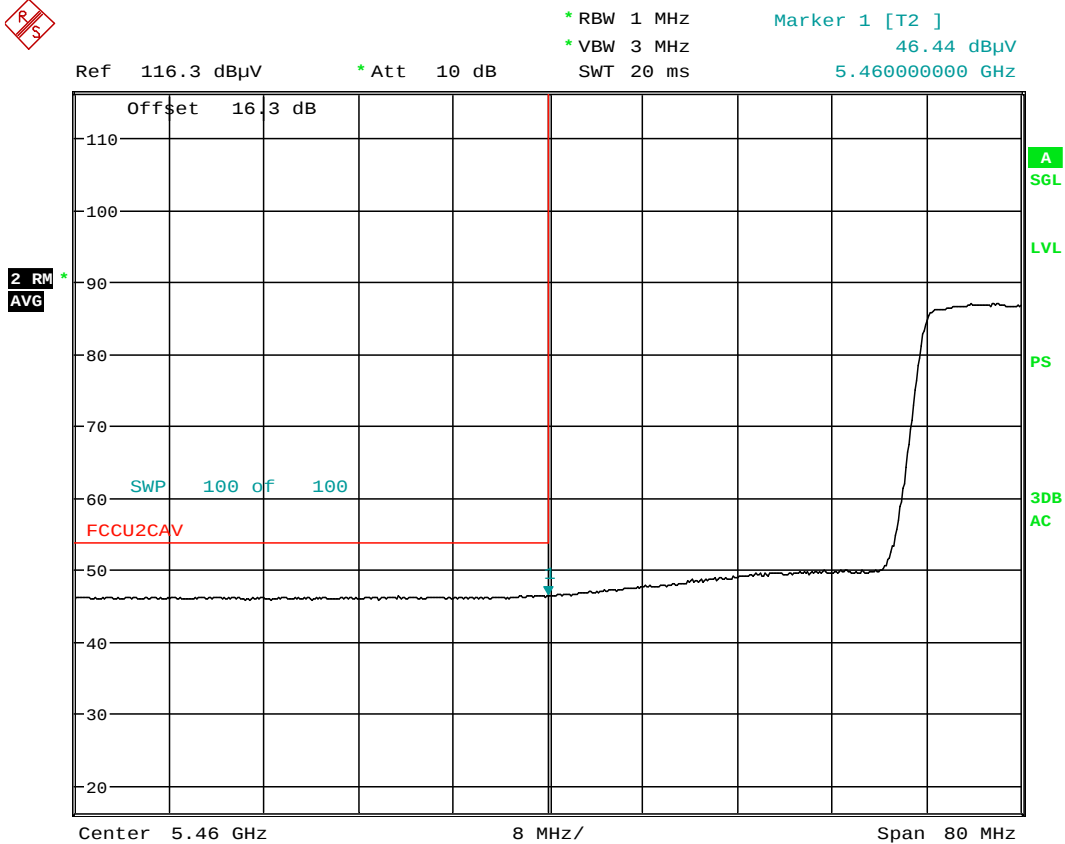
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102

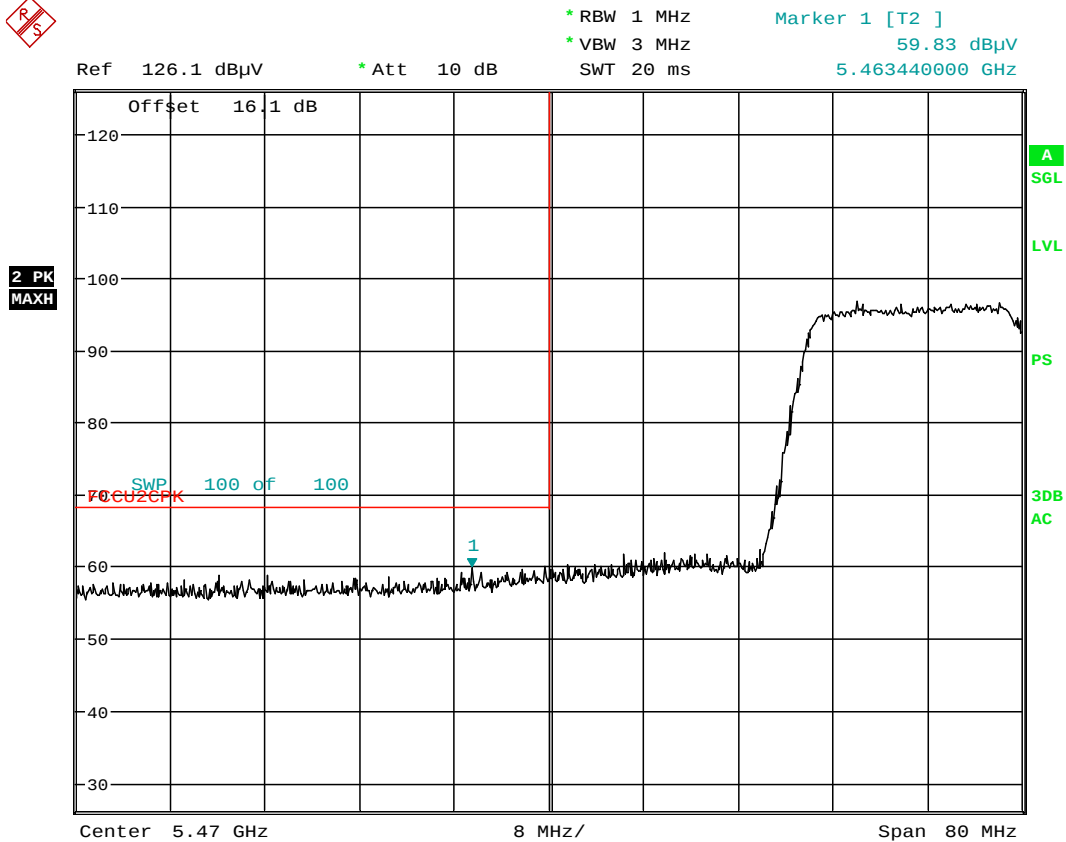


Date: 27.APR.2015 20:34:47

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 148 of 212

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



Date: 27.APR.2015 20:35:33

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 149 of 212

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

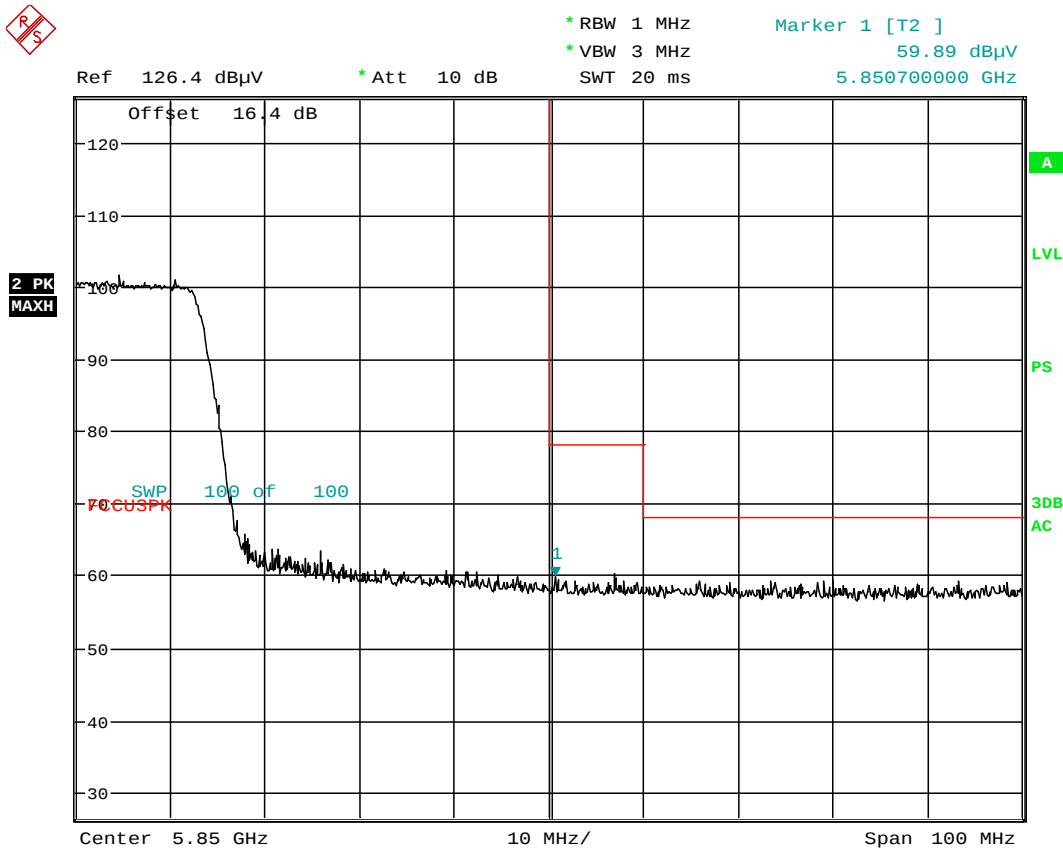
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5795MHz

Channel: 159

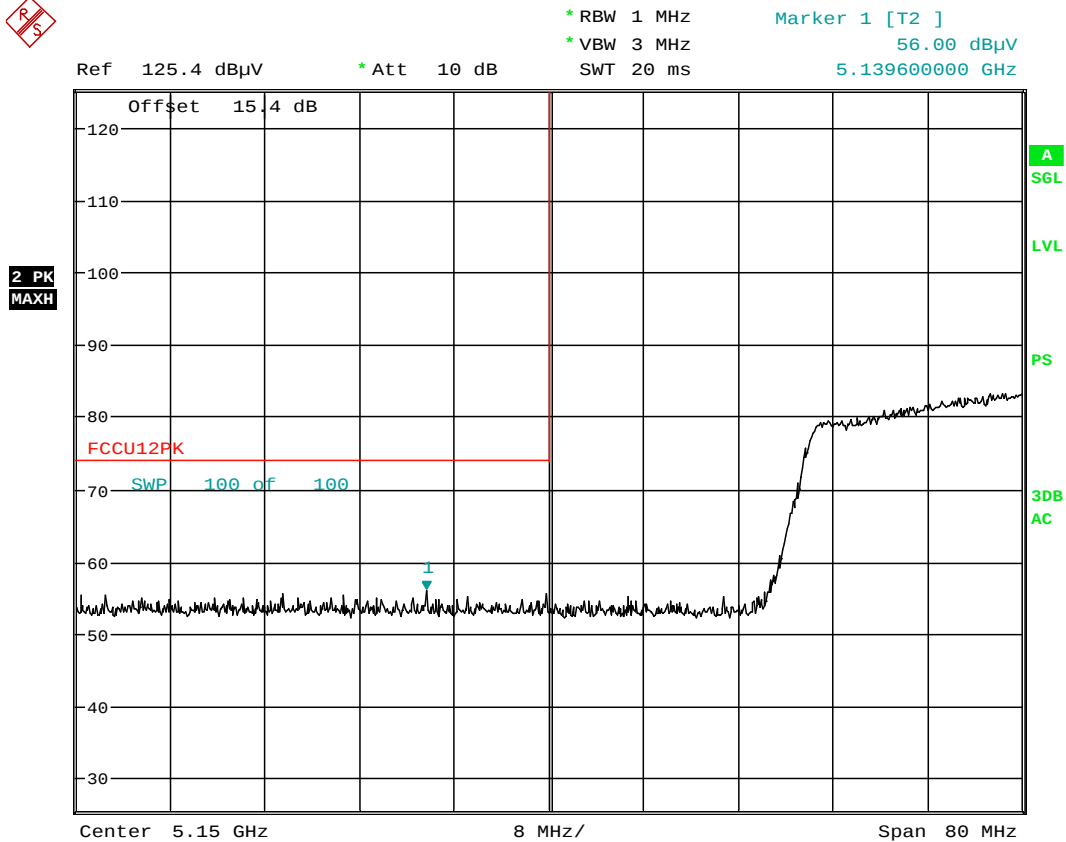


Date: 27.APR.2015 20:48:48

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 150 of 212

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



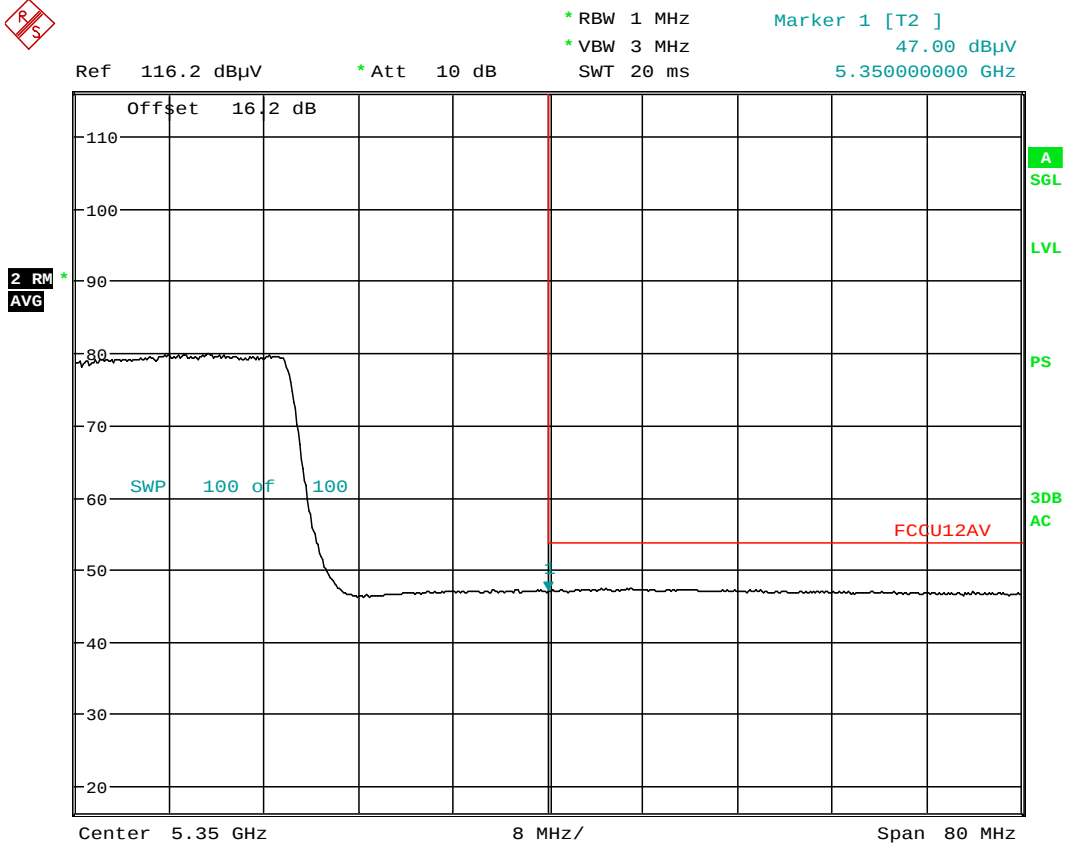
Date: 27.APR.2015 20:16:13

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 152 of 212

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



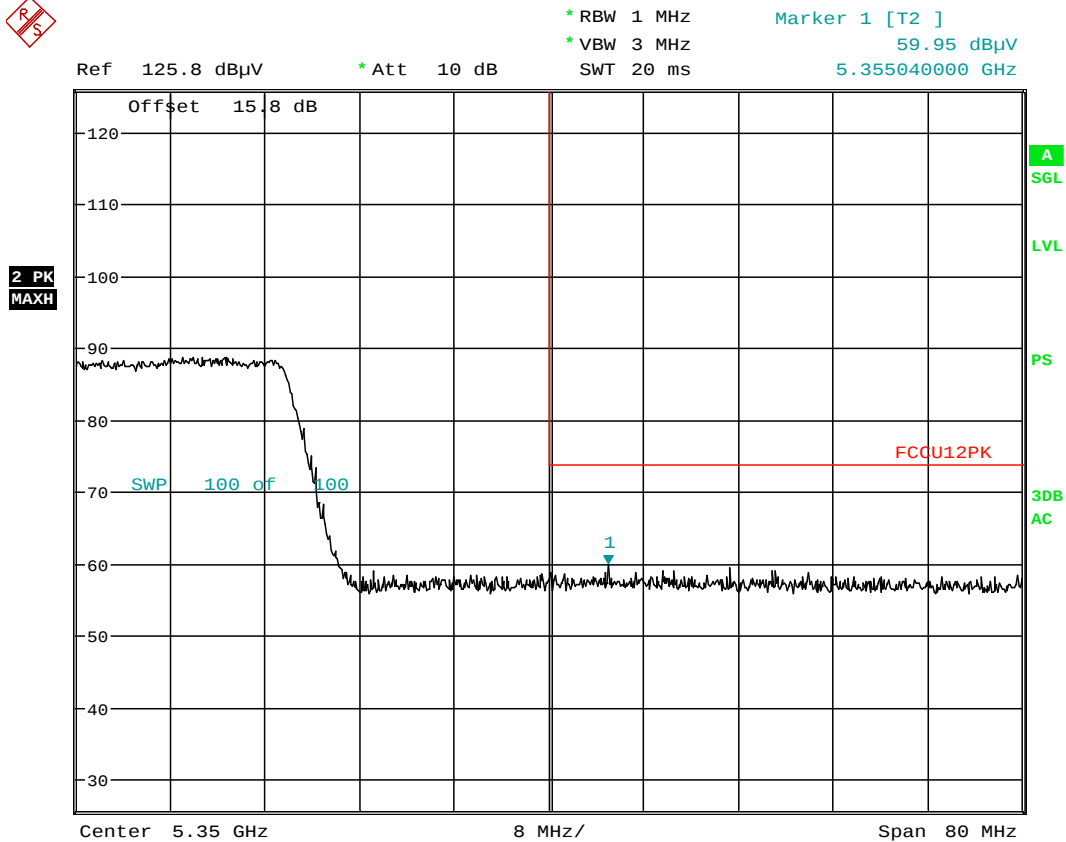
Date: 27.APR.2015 20:26:10

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 153 of 212

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

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



Date: 27.APR.2015 20:26:58

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 154 of 212

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

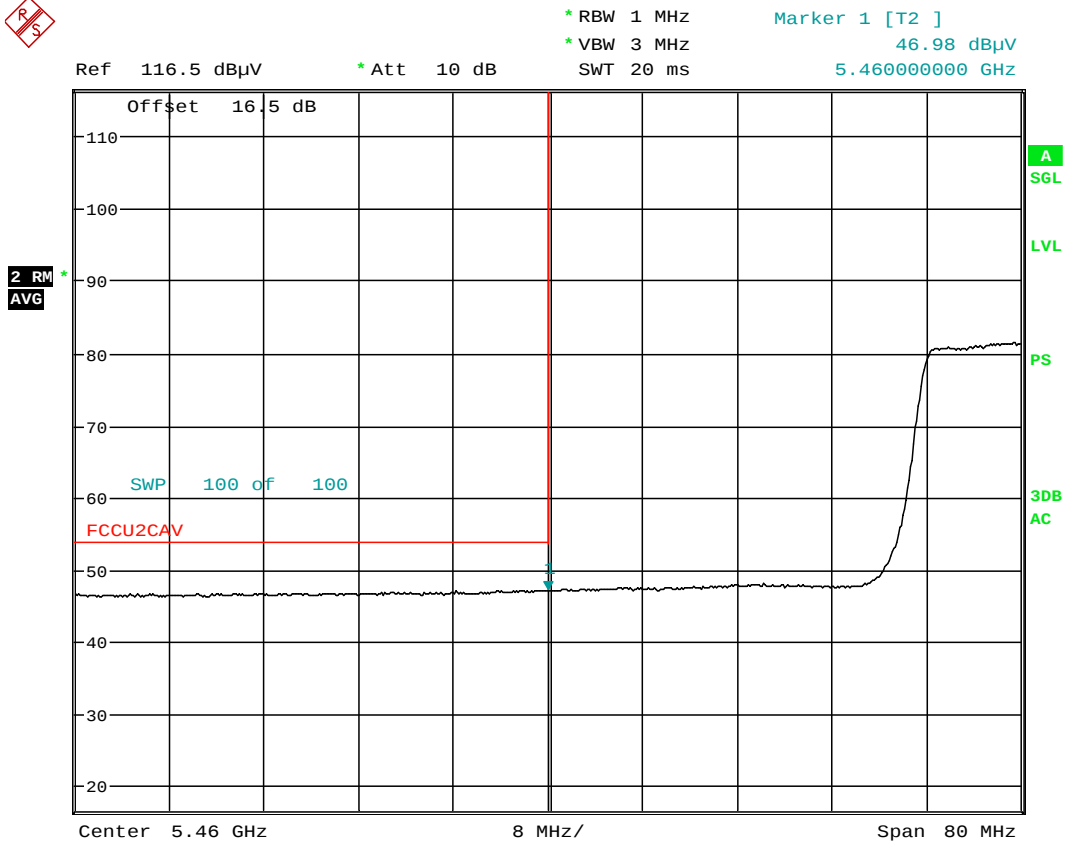
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5530MHz

Channel: 106



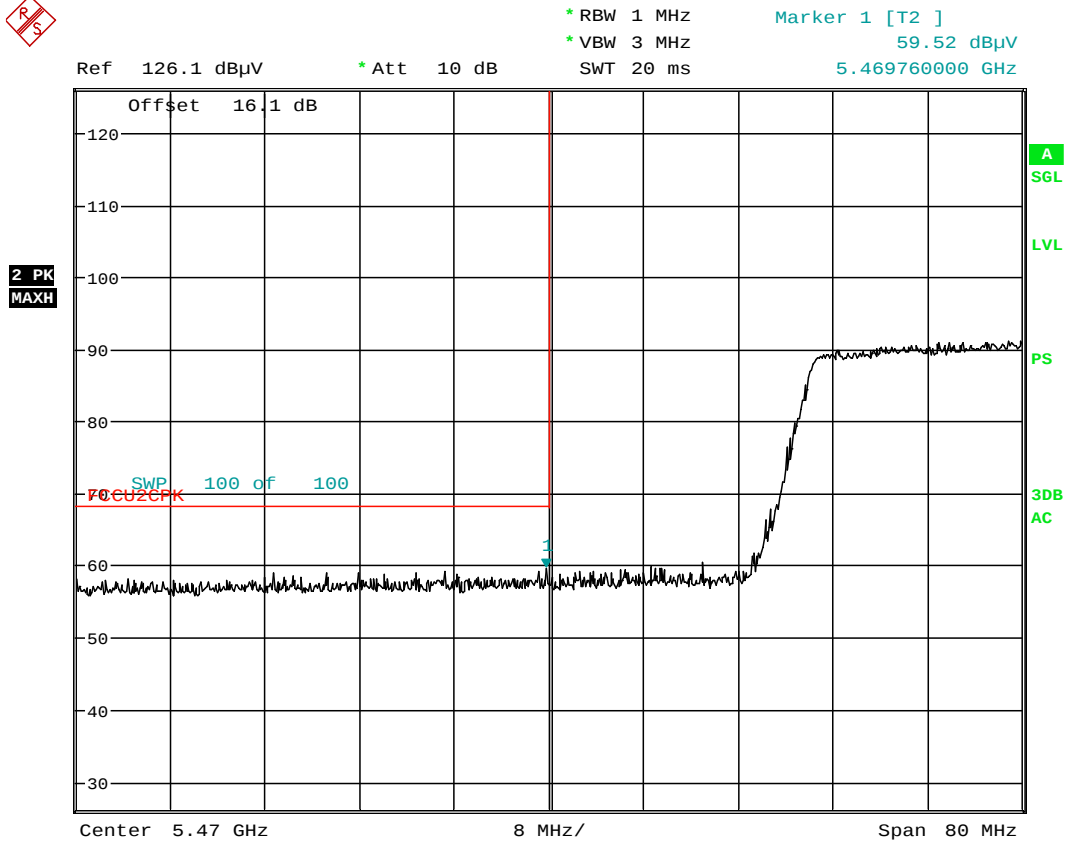
Date: 27.APR.2015 20:37:03

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 155 of 212

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

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



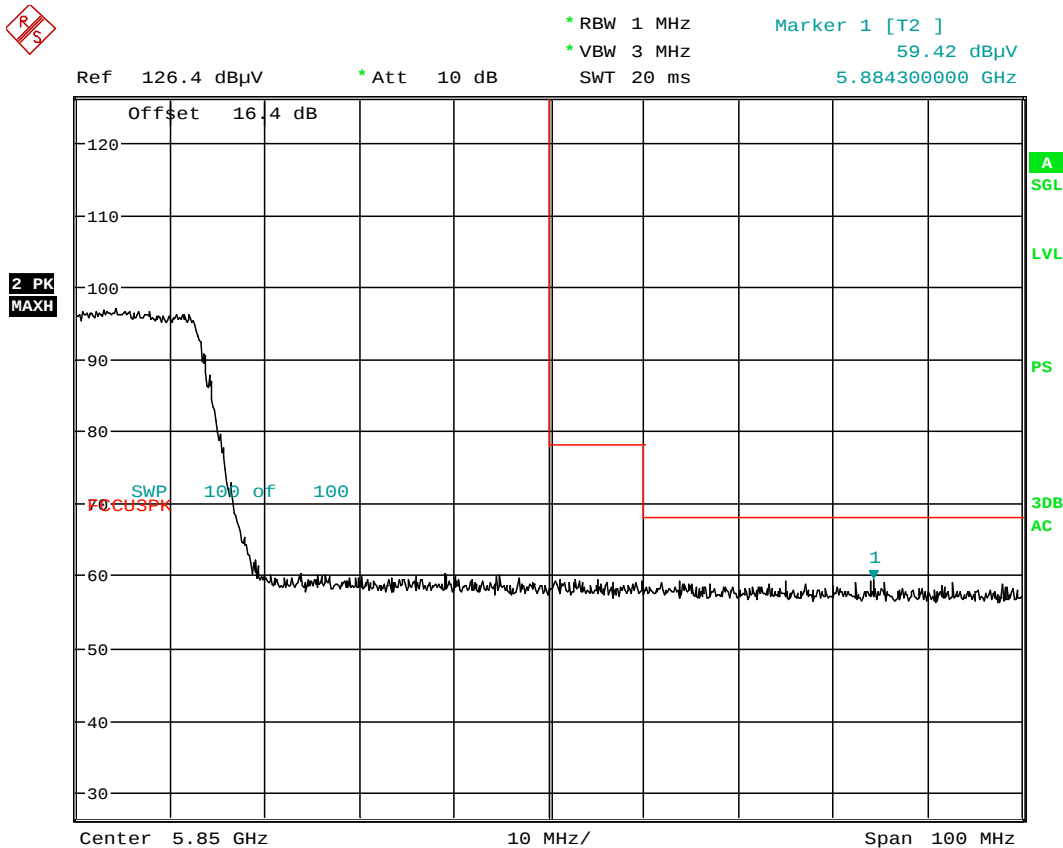
Date: 27.APR.2015 20:37:45

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 156 of 212

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: 27.APR.2015 20:51:29

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 157 of 212

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

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

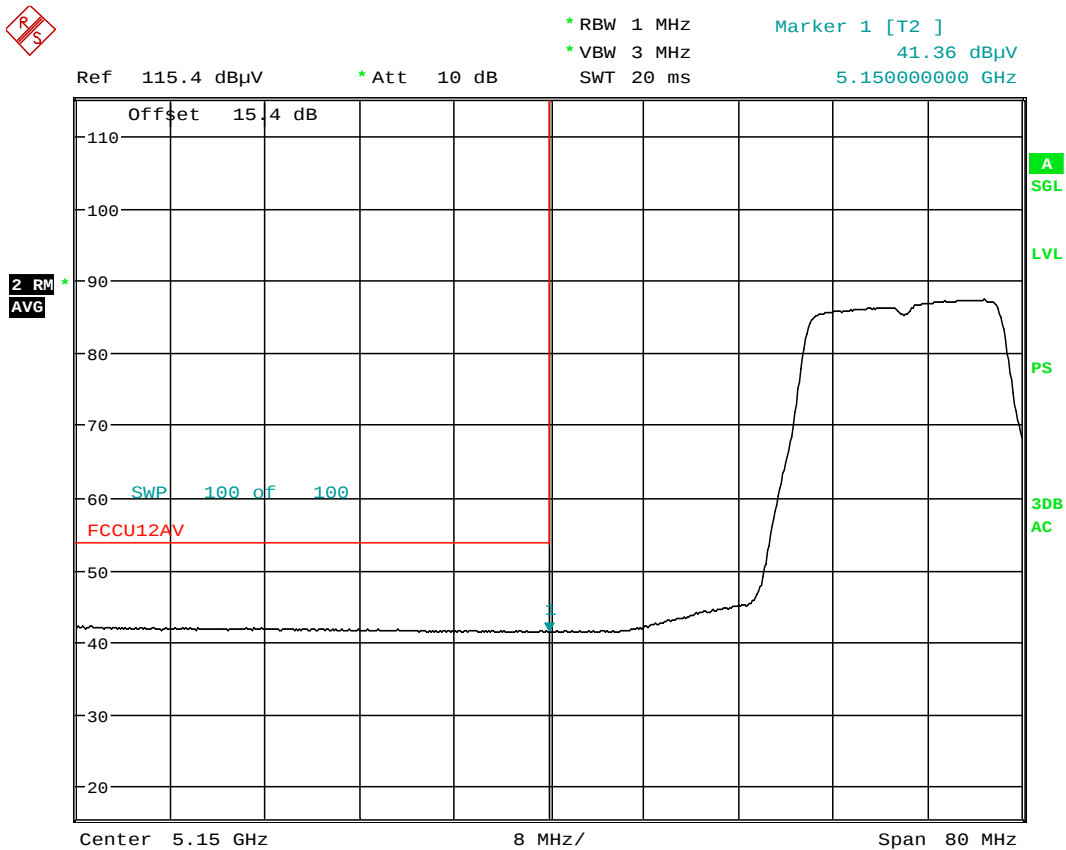
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36

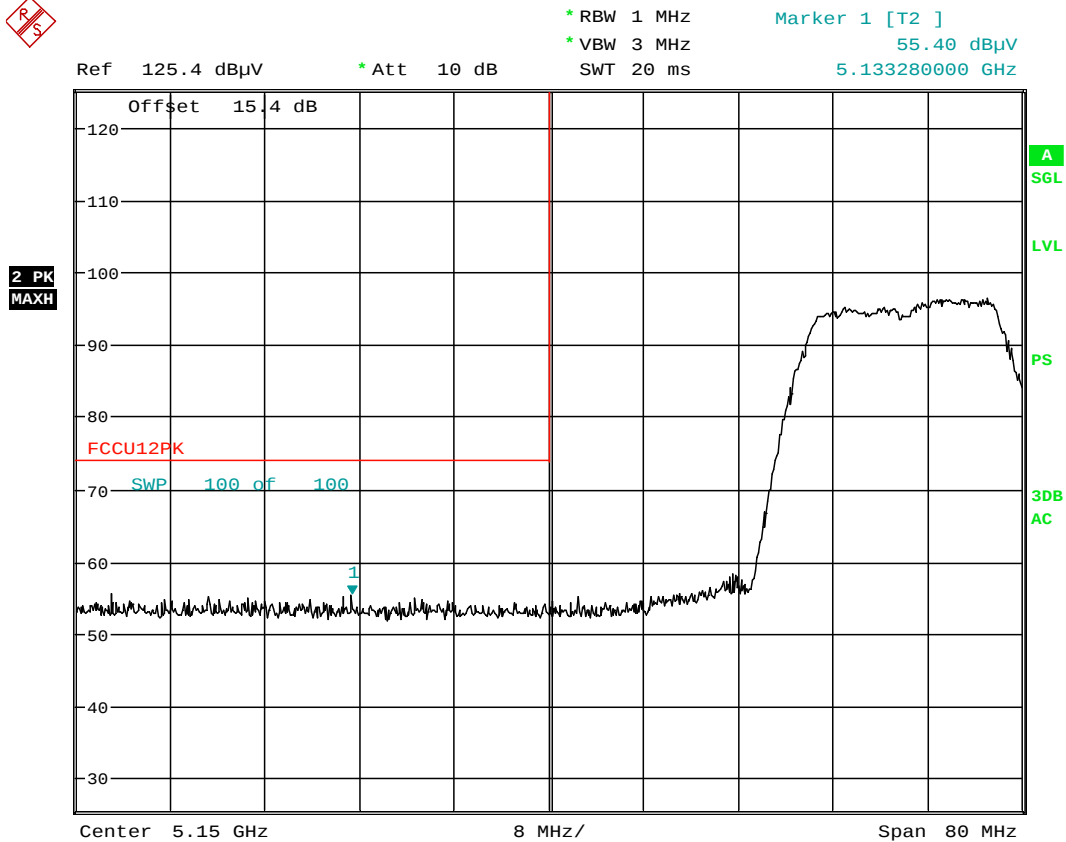


Date: 27.APR.2015 21:20:15

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 158 of 212

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



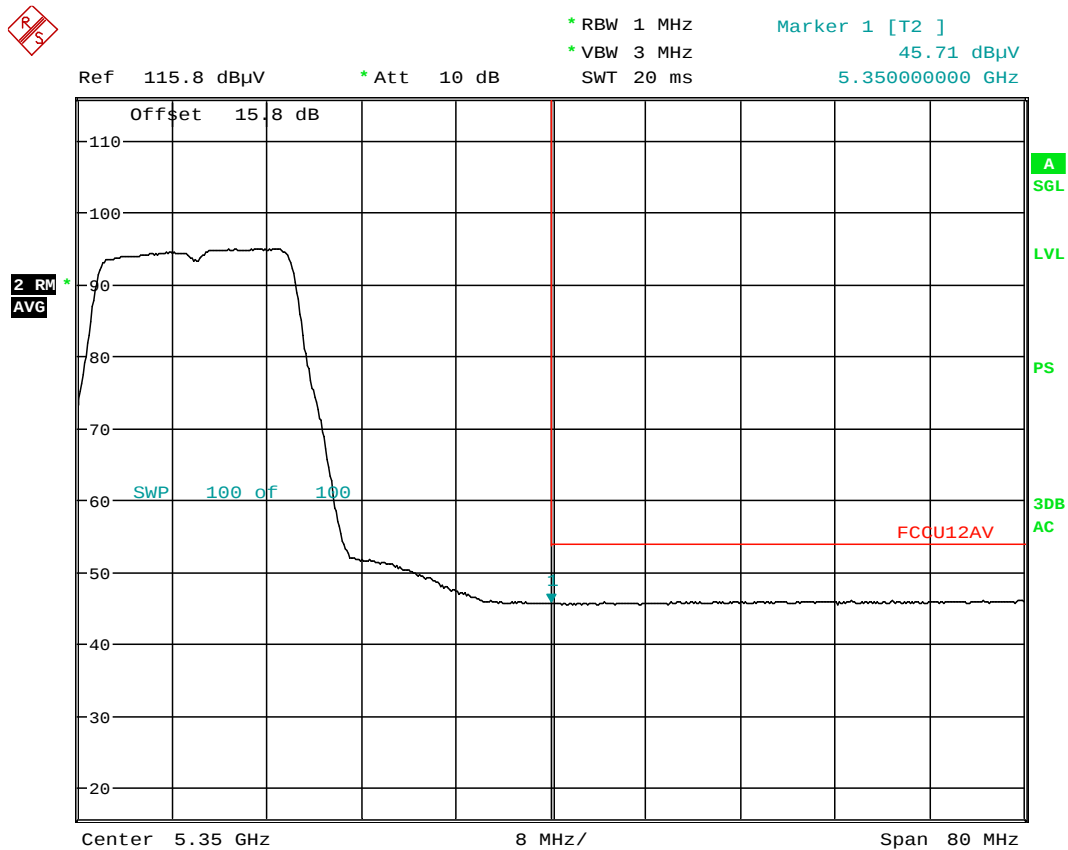
Date: 27.APR.2015 21:20:50

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

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 159 of 212

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

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

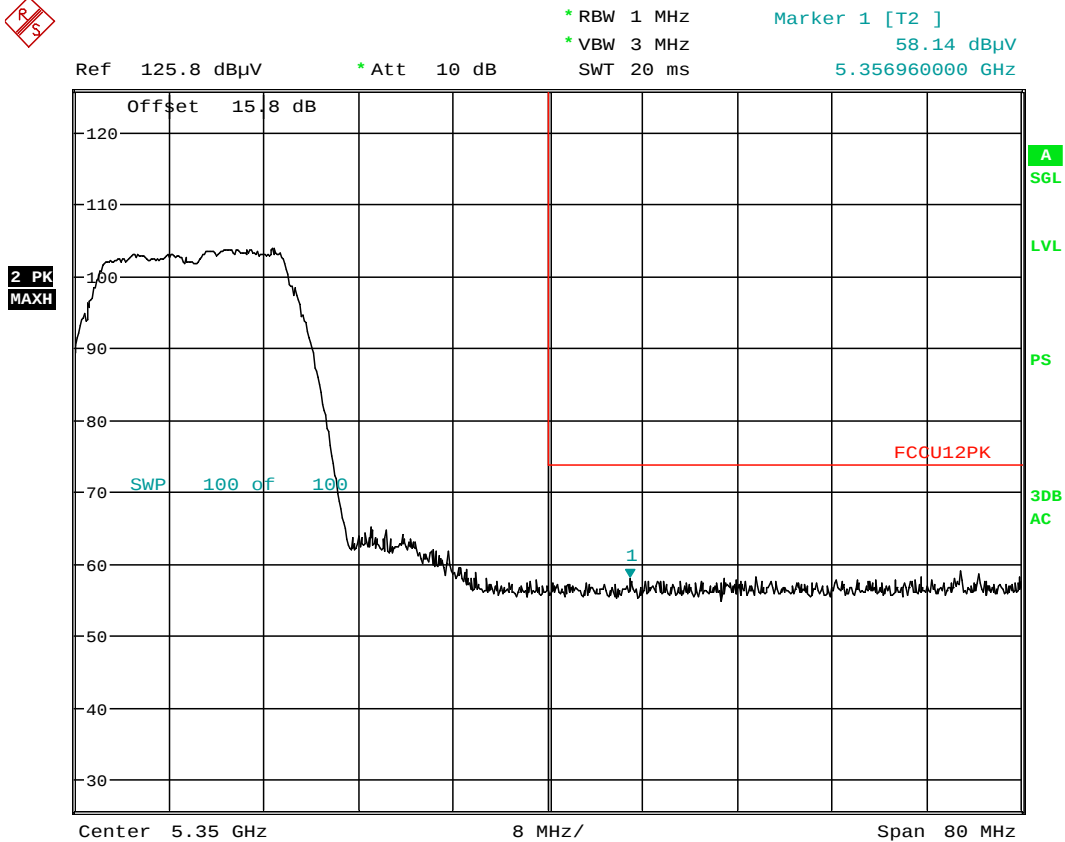


Date: 27.APR.2015 21:35:24

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

FCC ID: A3LSMT817V	 FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet	Page 160 of 212

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



Date: 27.APR.2015 21:36:00

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 161 of 212

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

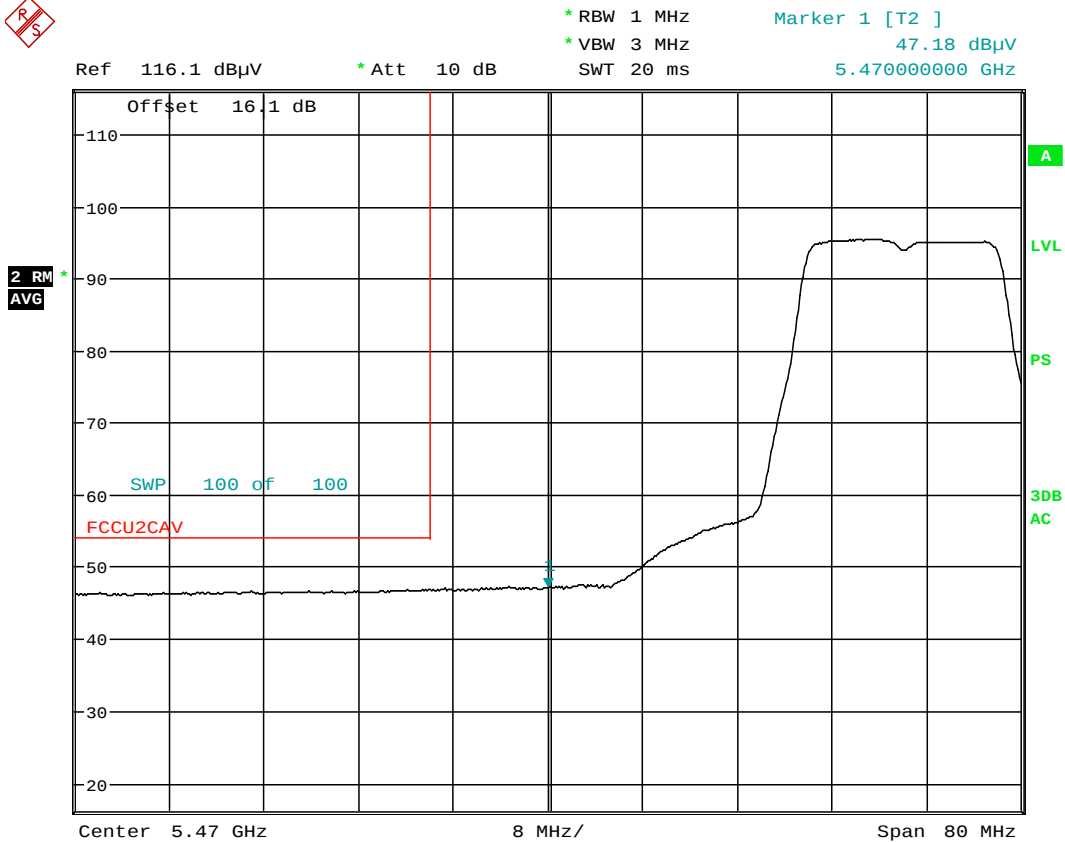
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

Channel: 100

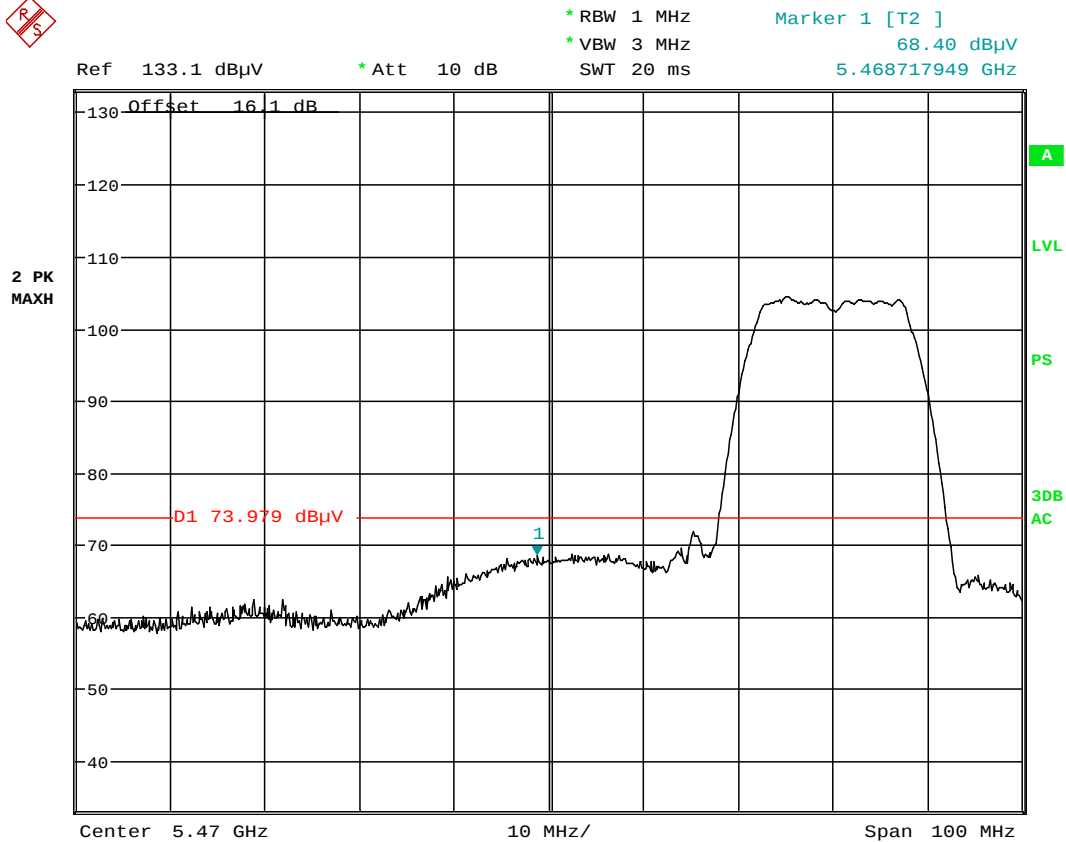


Date: 27.APR.2015 21:45:59

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 162 of 212

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



Date: 27.APR.2015 21:50:12

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 163 of 212

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

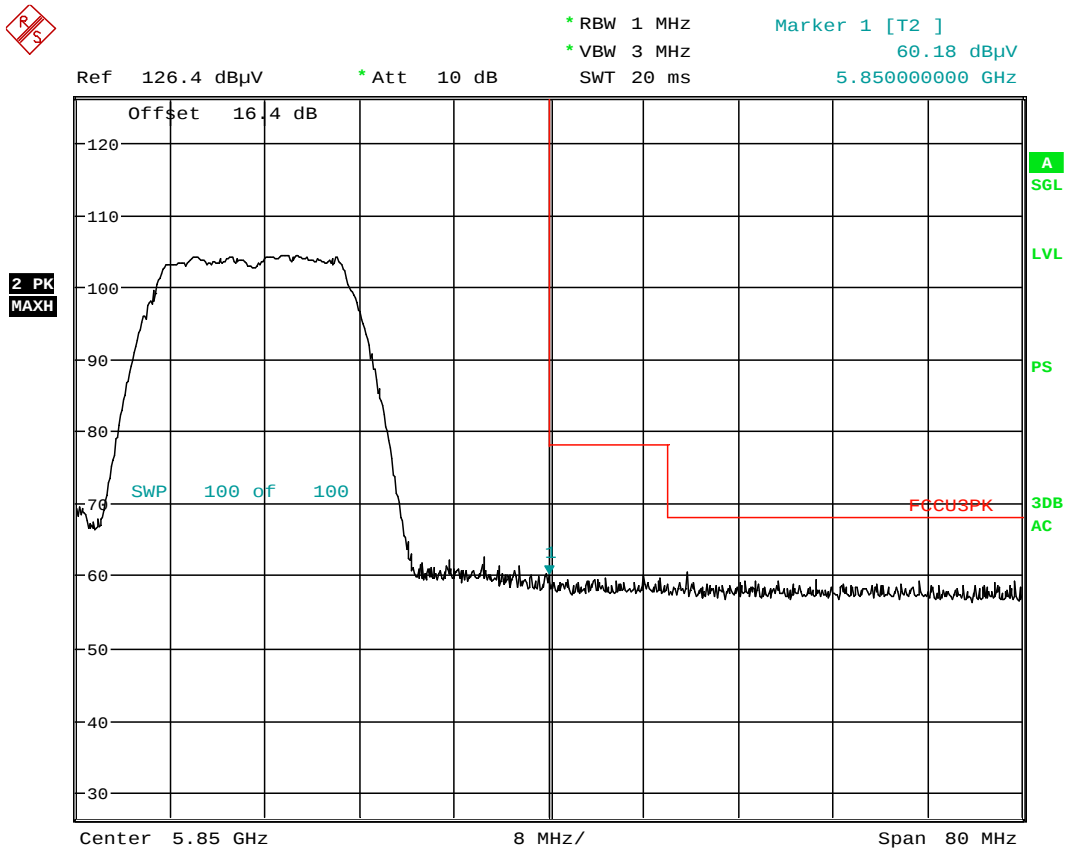
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5825MHz

Channel: 165



Date: 27.APR.2015 22:12:20

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 164 of 212

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

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

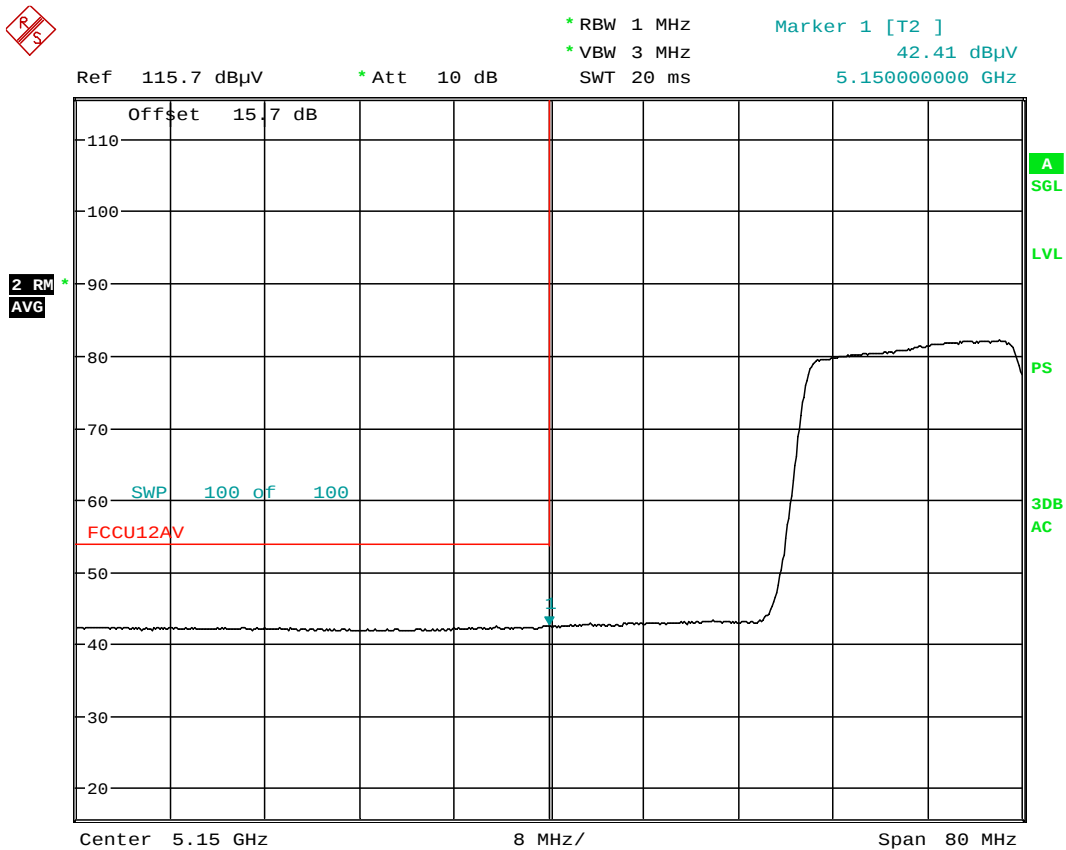
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38

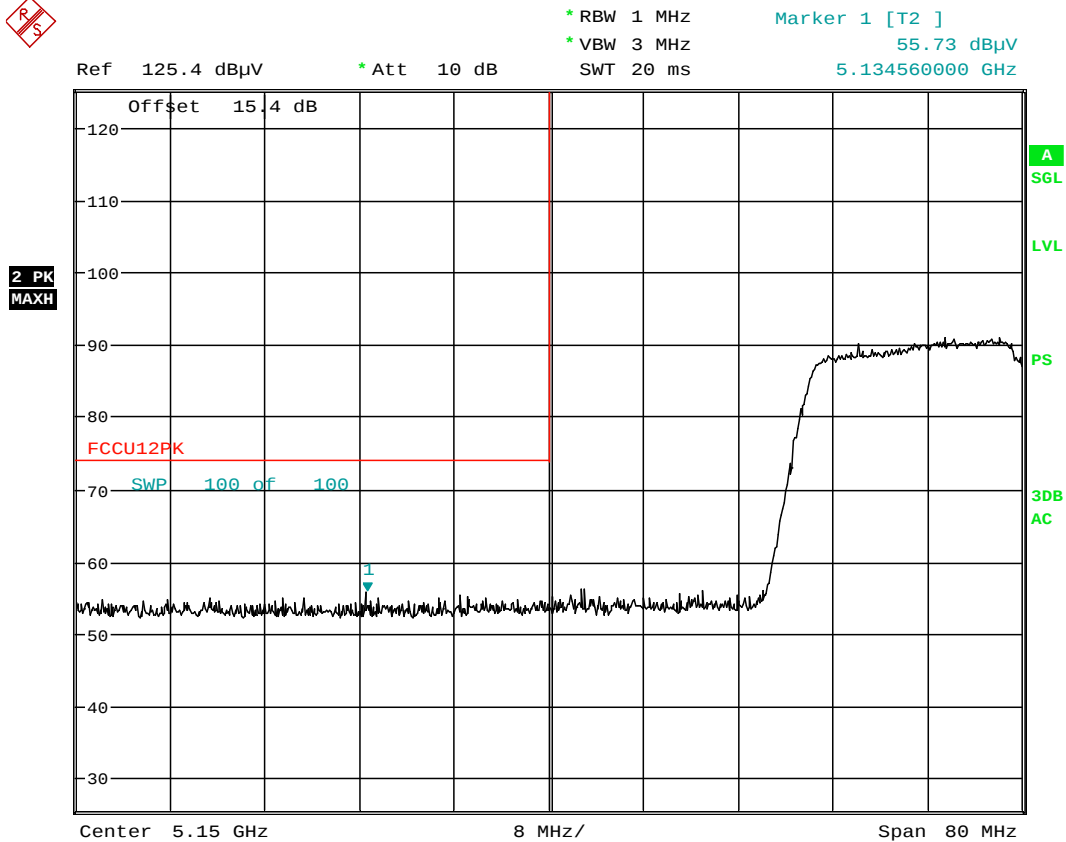


Date: 27.APR.2015 21:26:01

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 165 of 212

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



Date: 27.APR.2015 21:26:30

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 166 of 212

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

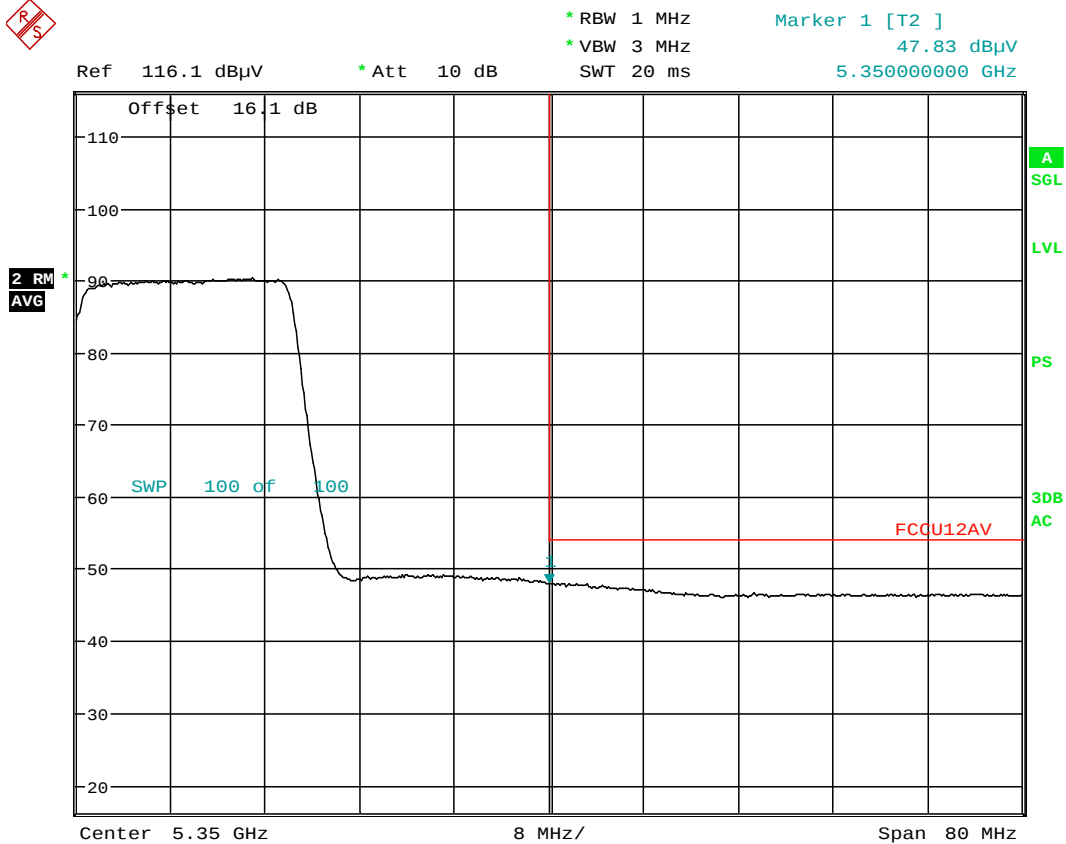
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62



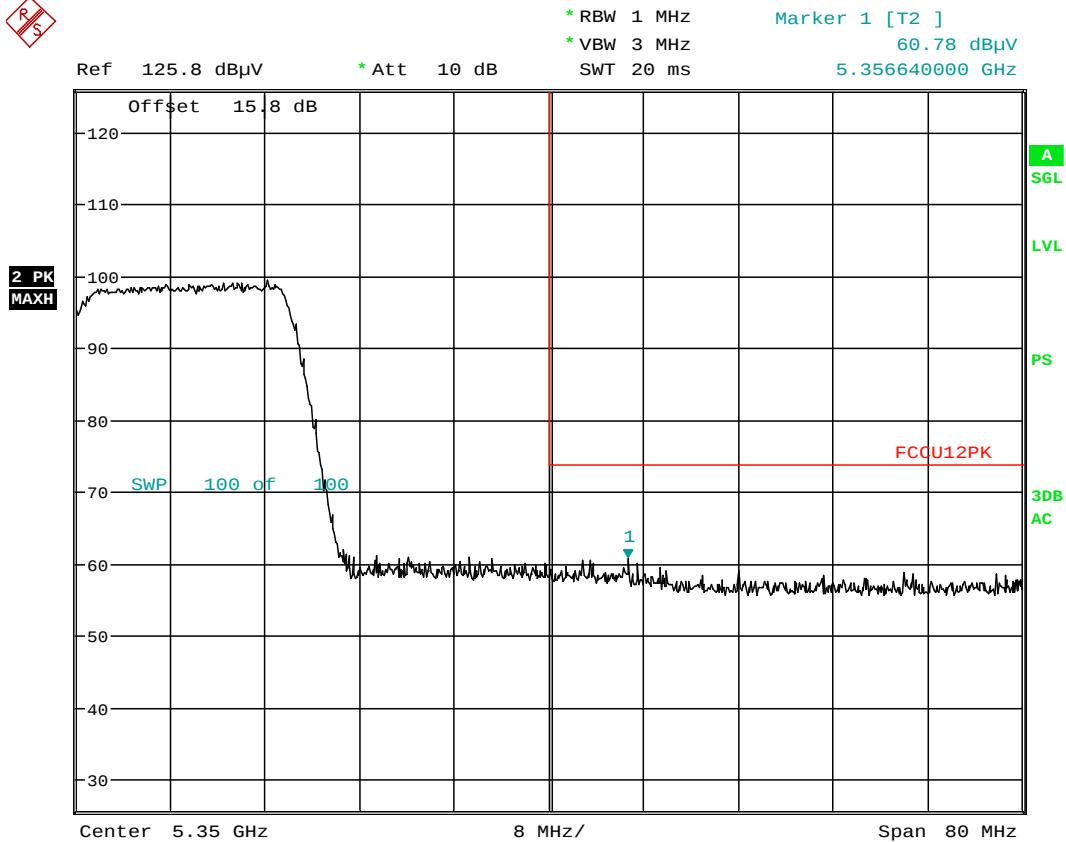
Date: 27.APR.2015 21:38:01

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 167 of 212

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

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



Date: 27.APR.2015 21:38:35

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 168 of 212

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

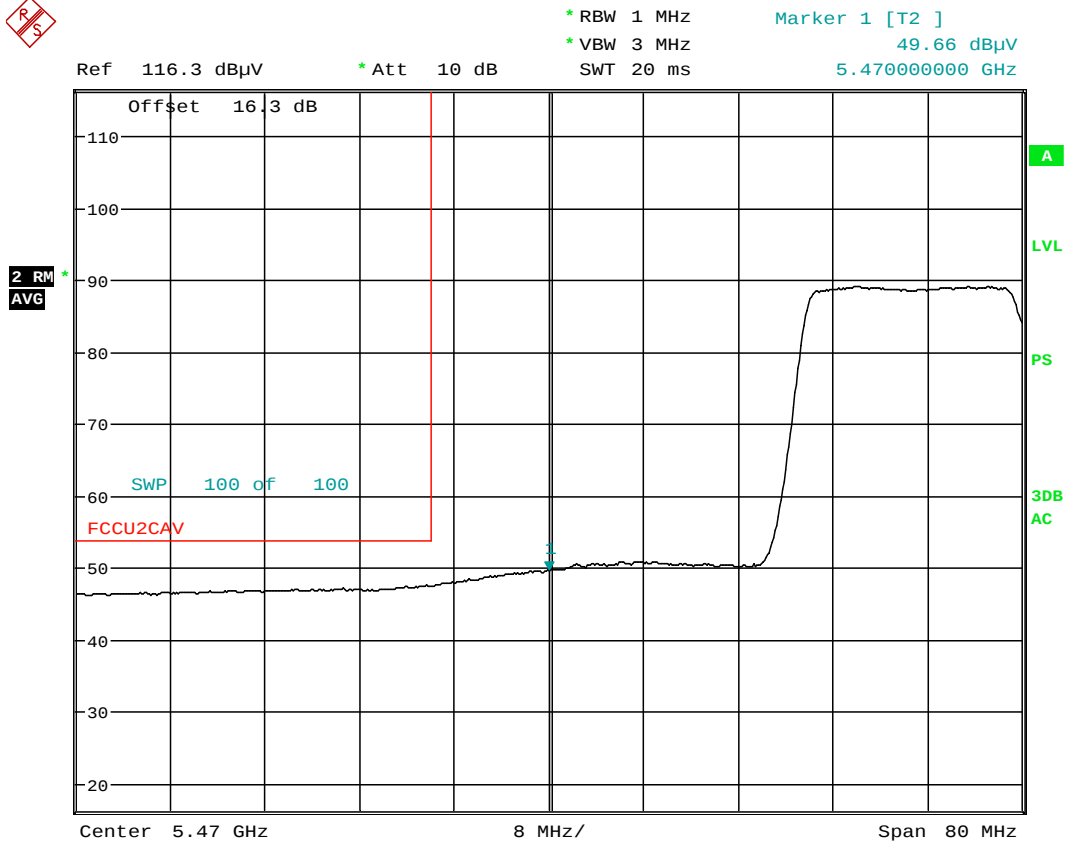
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102



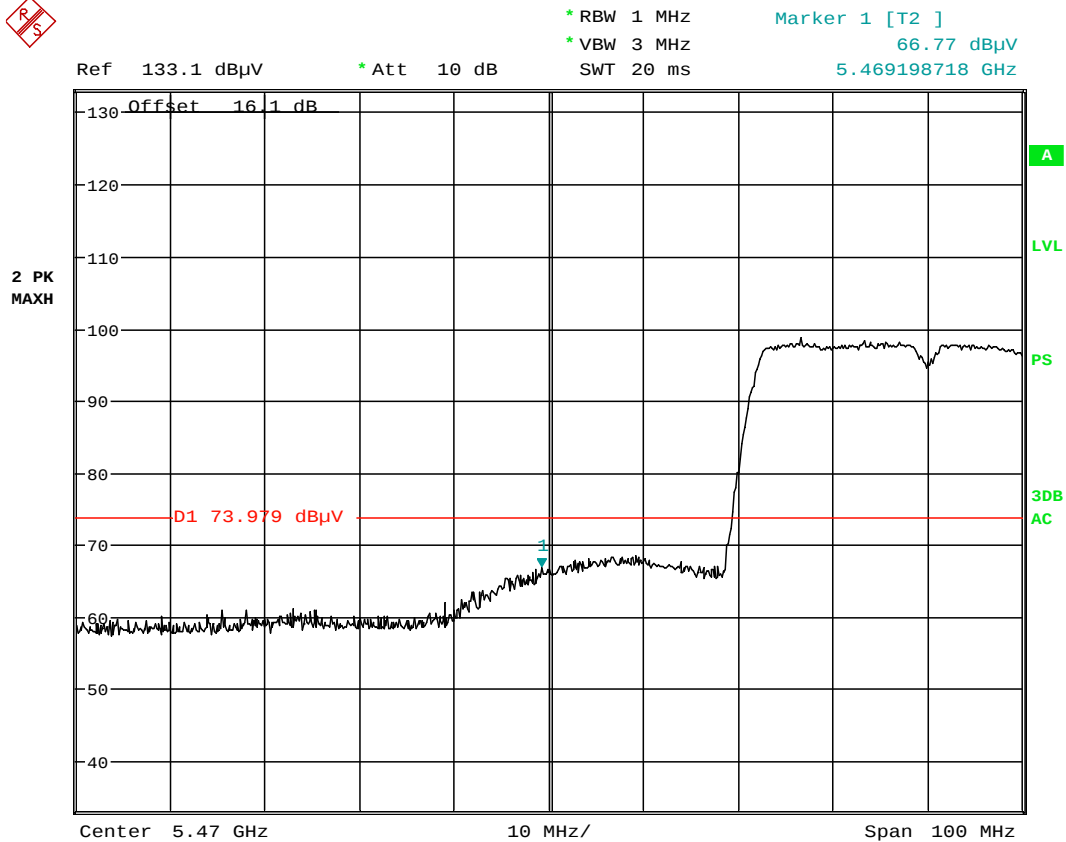
Date: 27.APR.2015 21:57:14

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 169 of 212

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

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

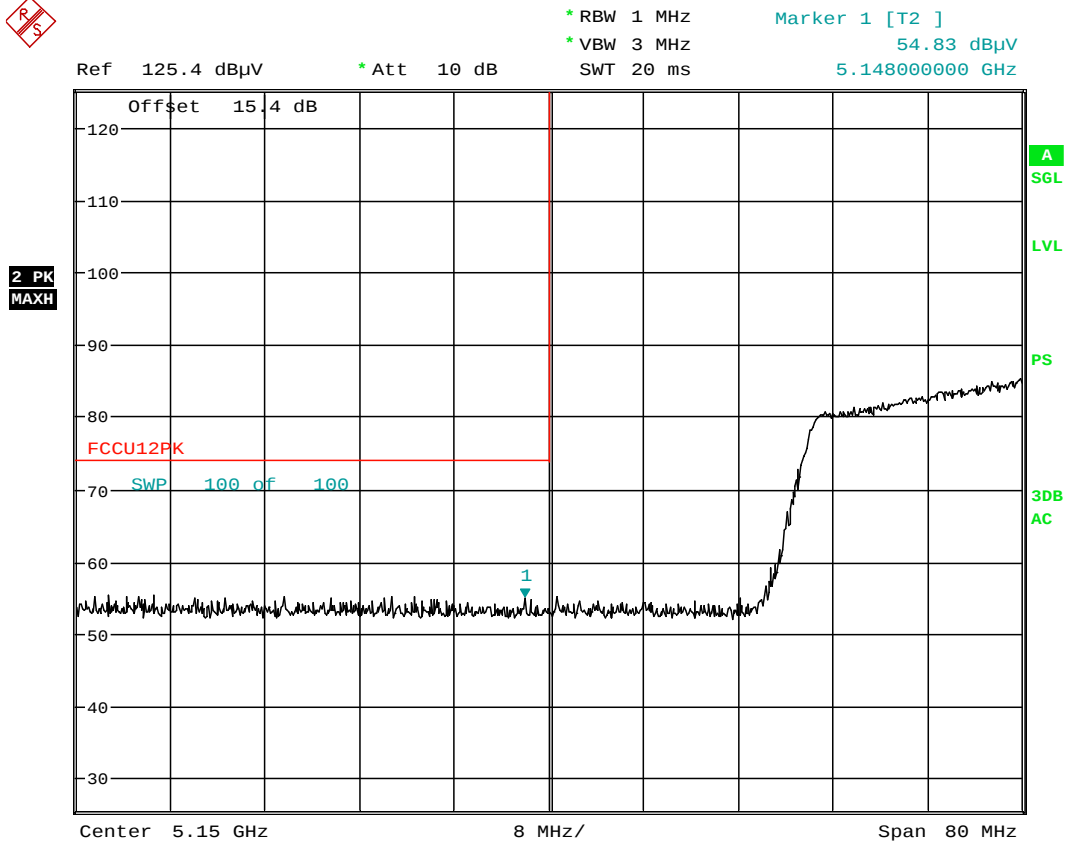


Date: 27.APR.2015 22:02:22

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 170 of 212

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



Date: 27.APR.2015 21:32:11

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

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 173 of 212

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

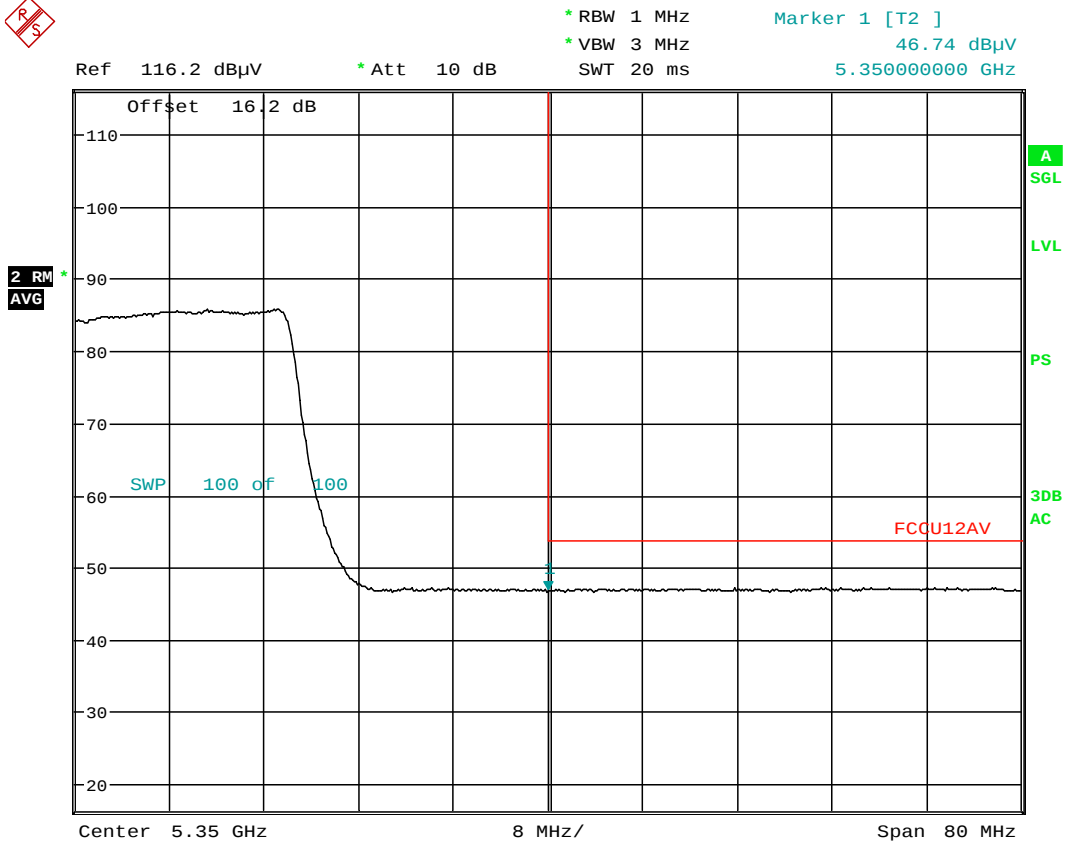
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58

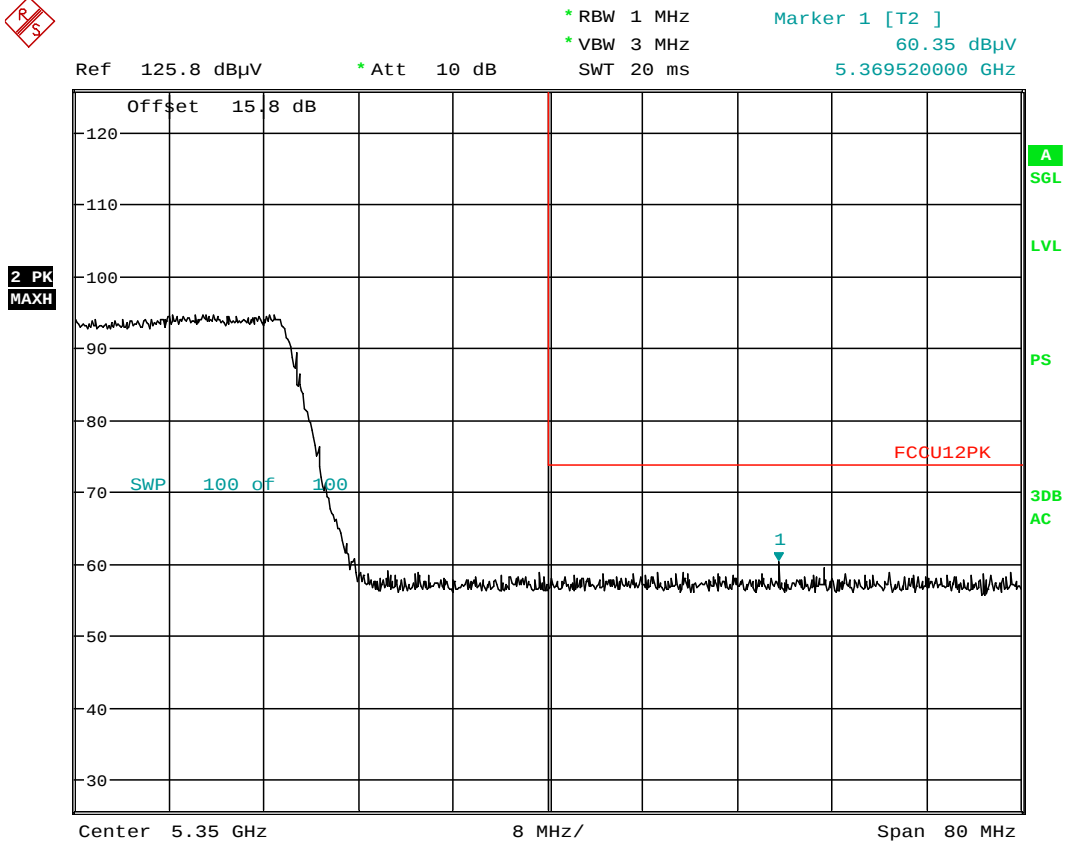


Date: 27.APR.2015 21:40:06

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 174 of 212

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



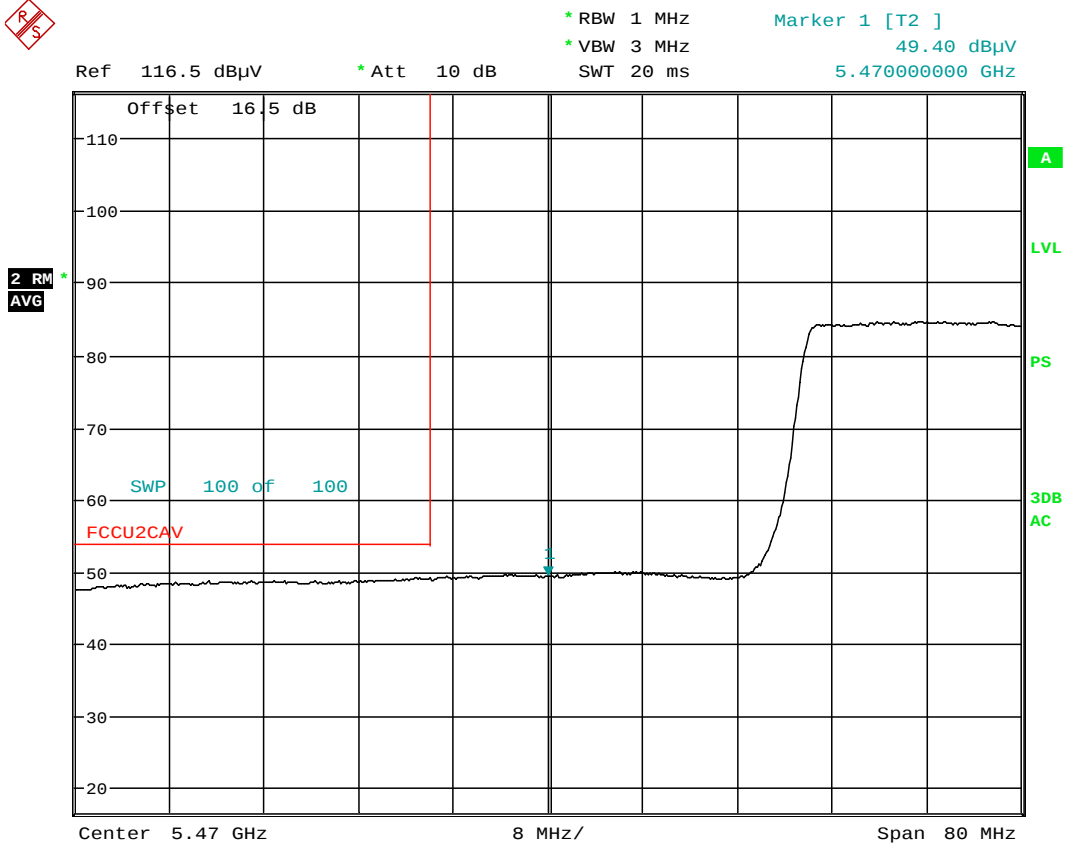
Date: 27.APR.2015 21:40:40

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 175 of 212

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



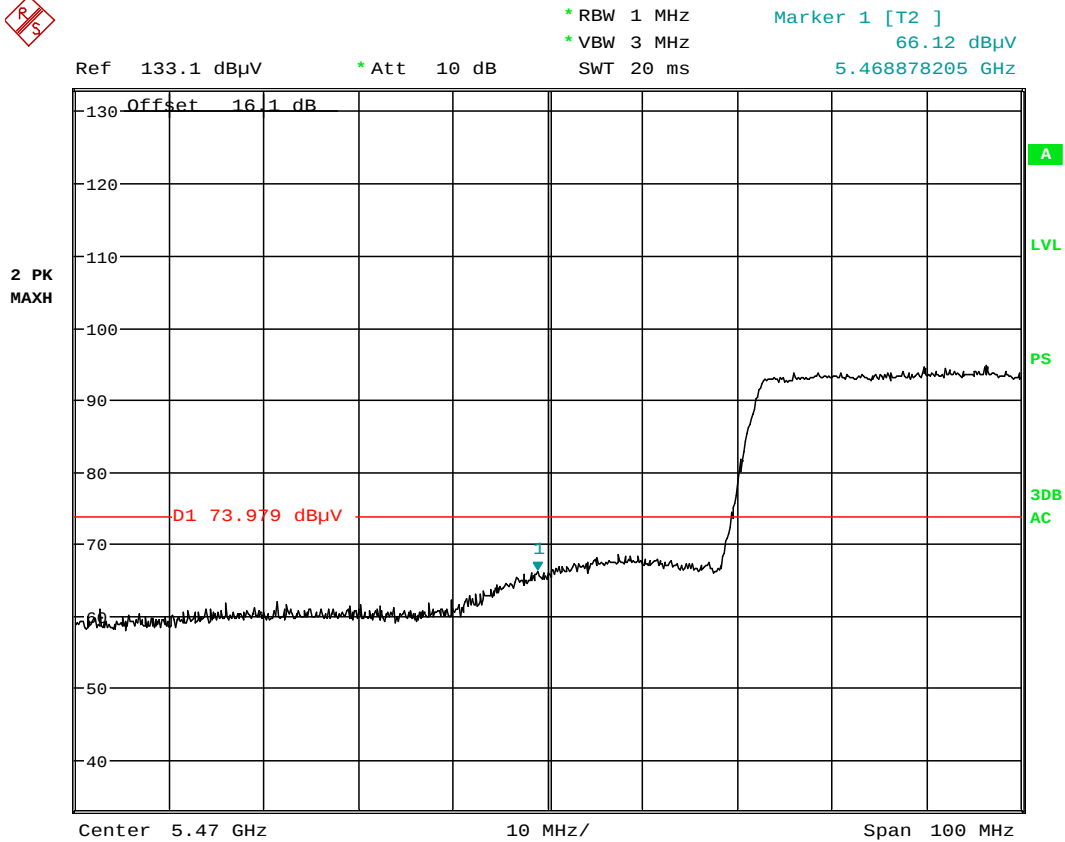
Date: 27.APR.2015 22:04:40

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 176 of 212

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

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



Date: 27.APR.2015 22:06:46

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 177 of 212

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

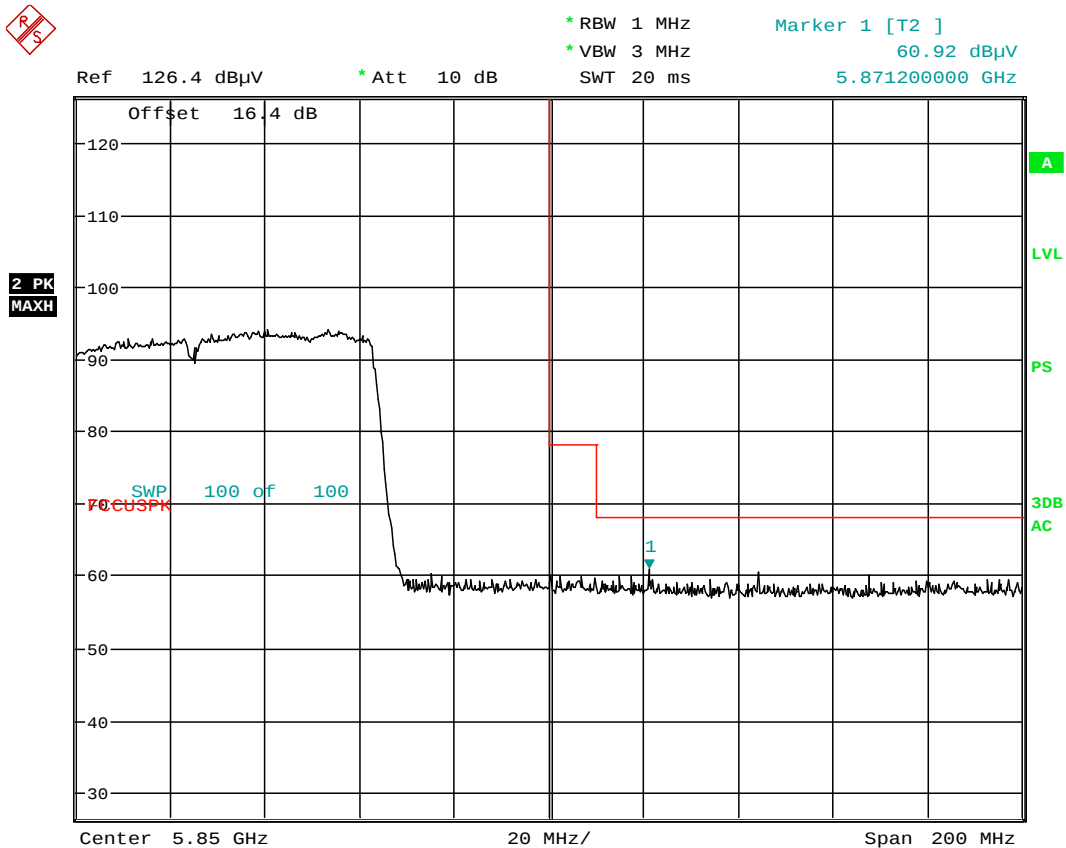
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5775MHz

Channel: 155



Date: 27.APR.2015 22:15:23

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 178 of 212

6.7.9 MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

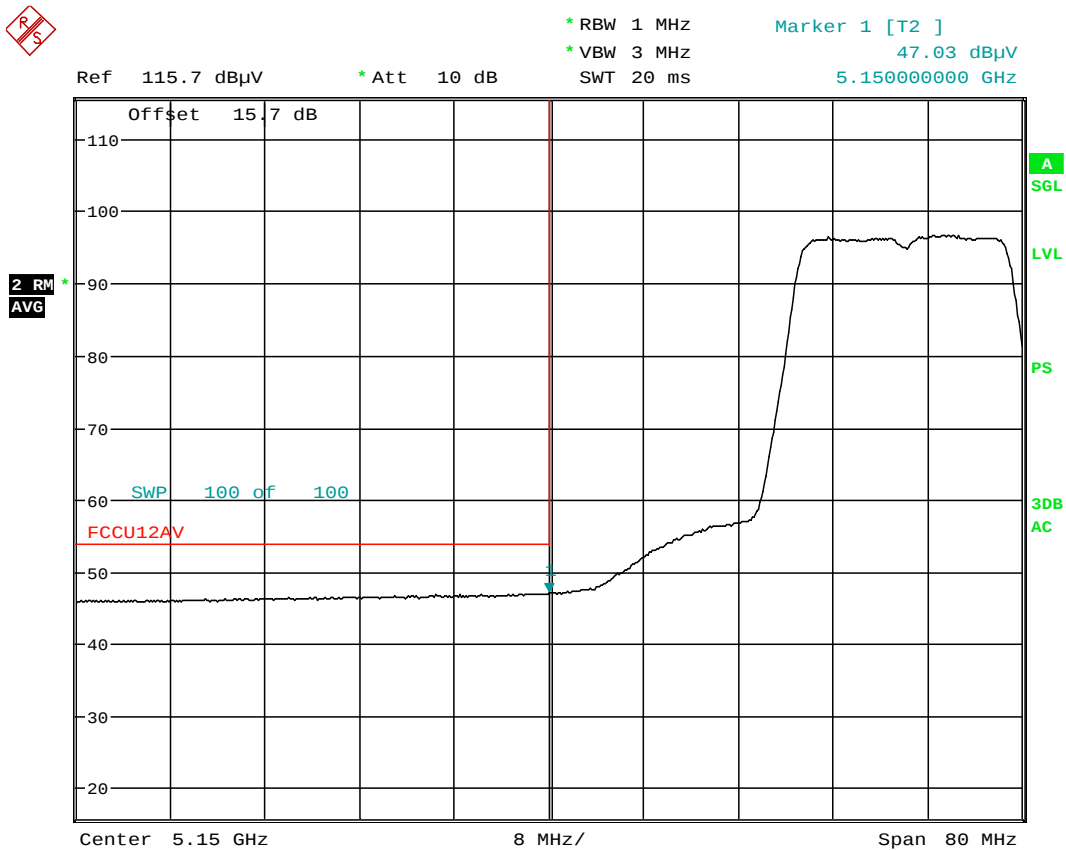
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36



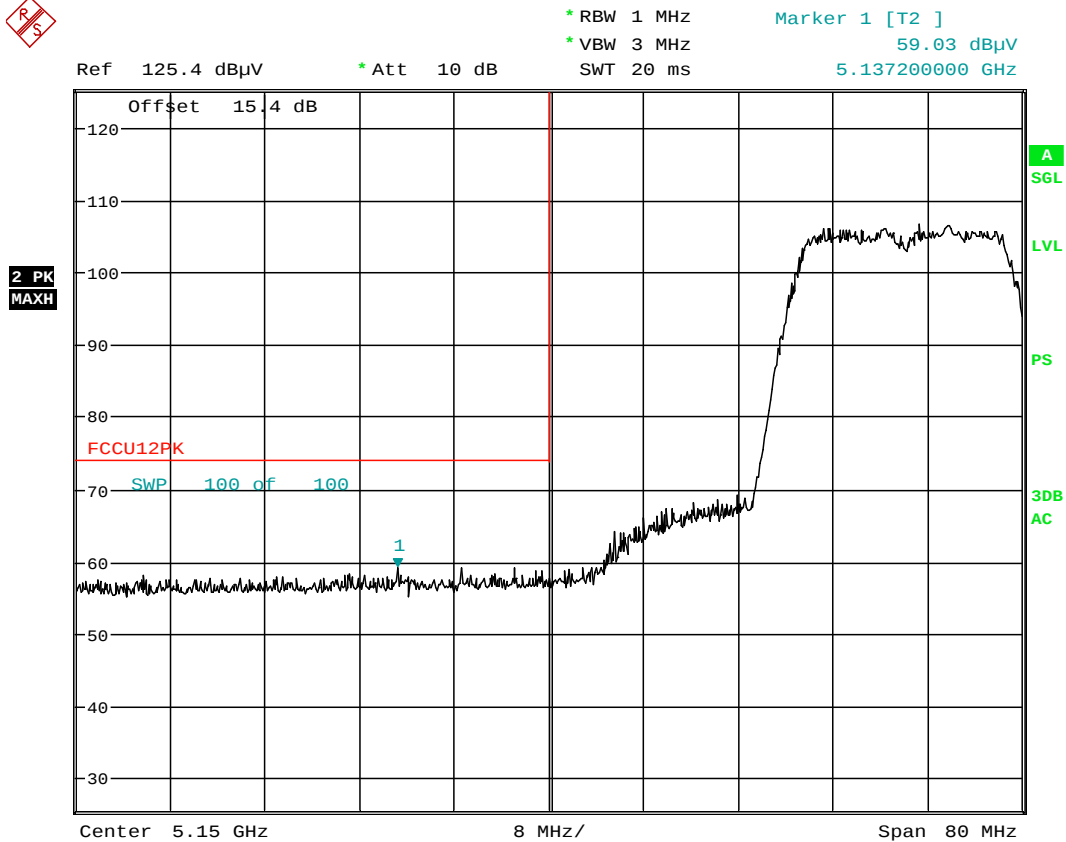
Date: 27.APR.2015 22:44:29

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 179 of 212

MIMO Radiated Band Edge Measurements (20MHz BW)

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



Date: 27.APR.2015 22:45:04

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 180 of 212

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

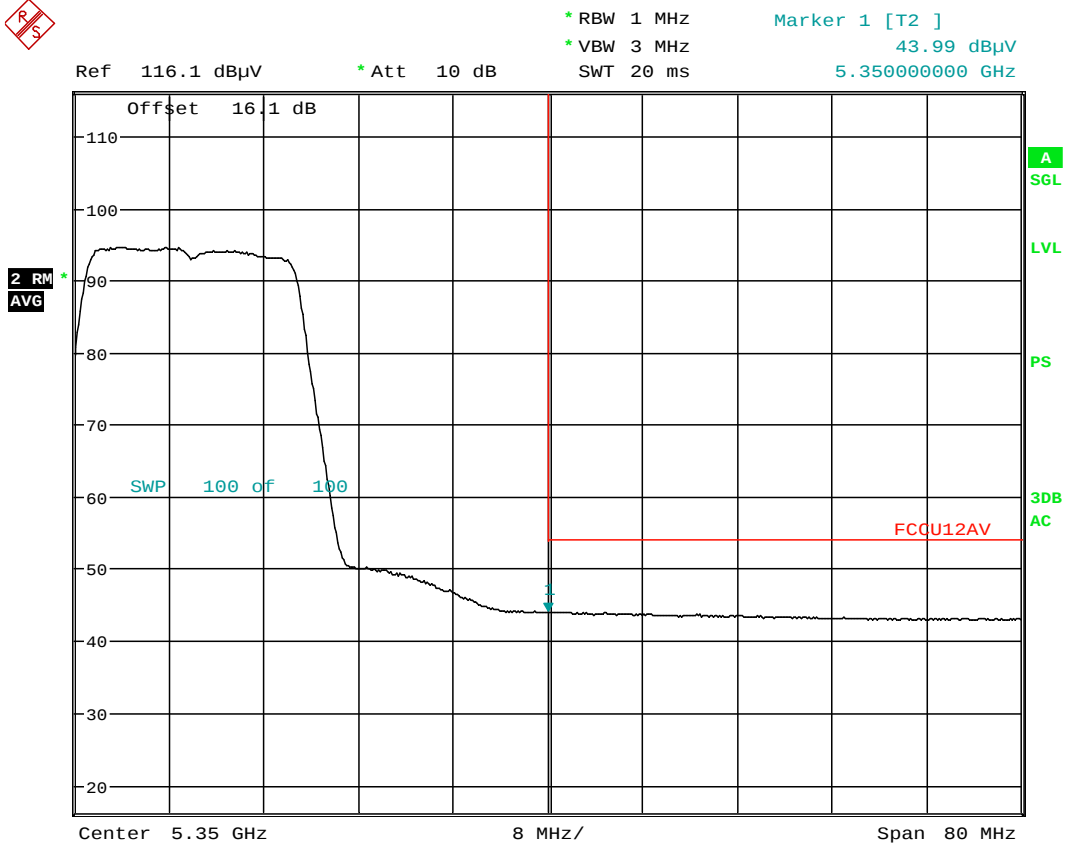
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64



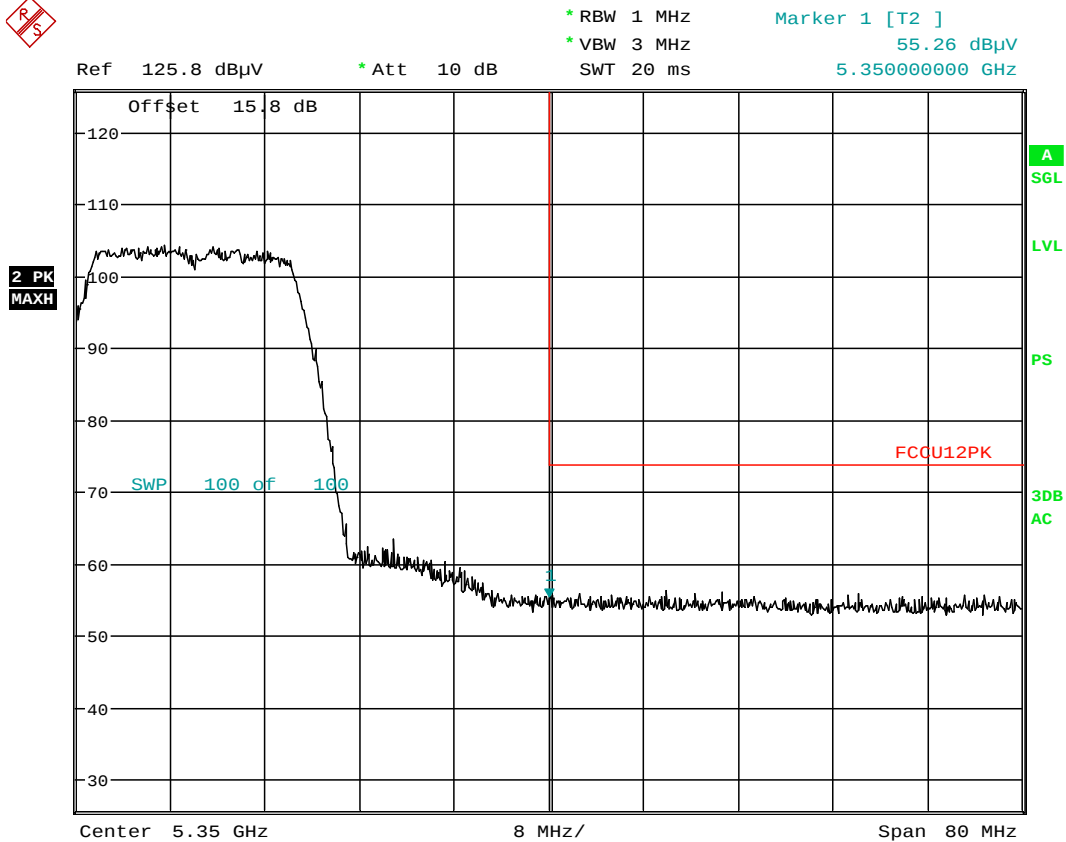
Date: 27.APR.2015 22:59:27

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 181 of 212

MIMO Radiated Band Edge Measurements (20MHz BW)

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



Date: 27.APR.2015 23:00:01

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 182 of 212

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

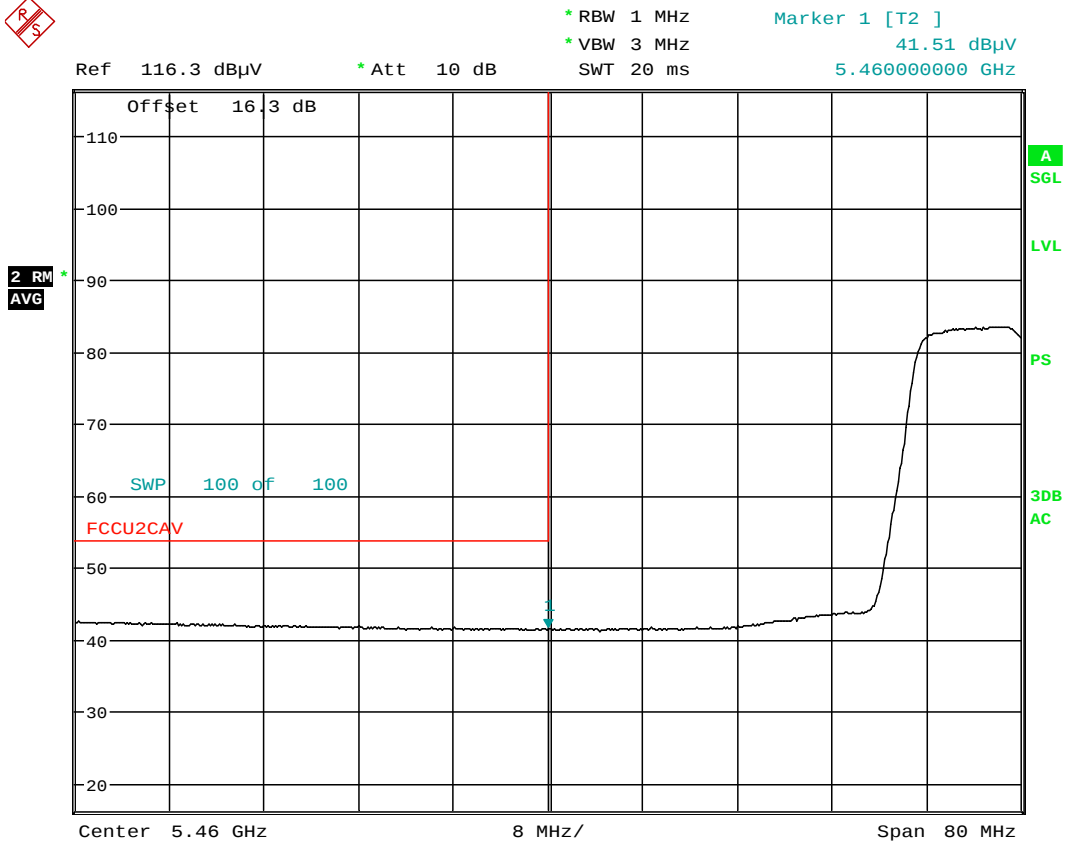
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

Channel: 100

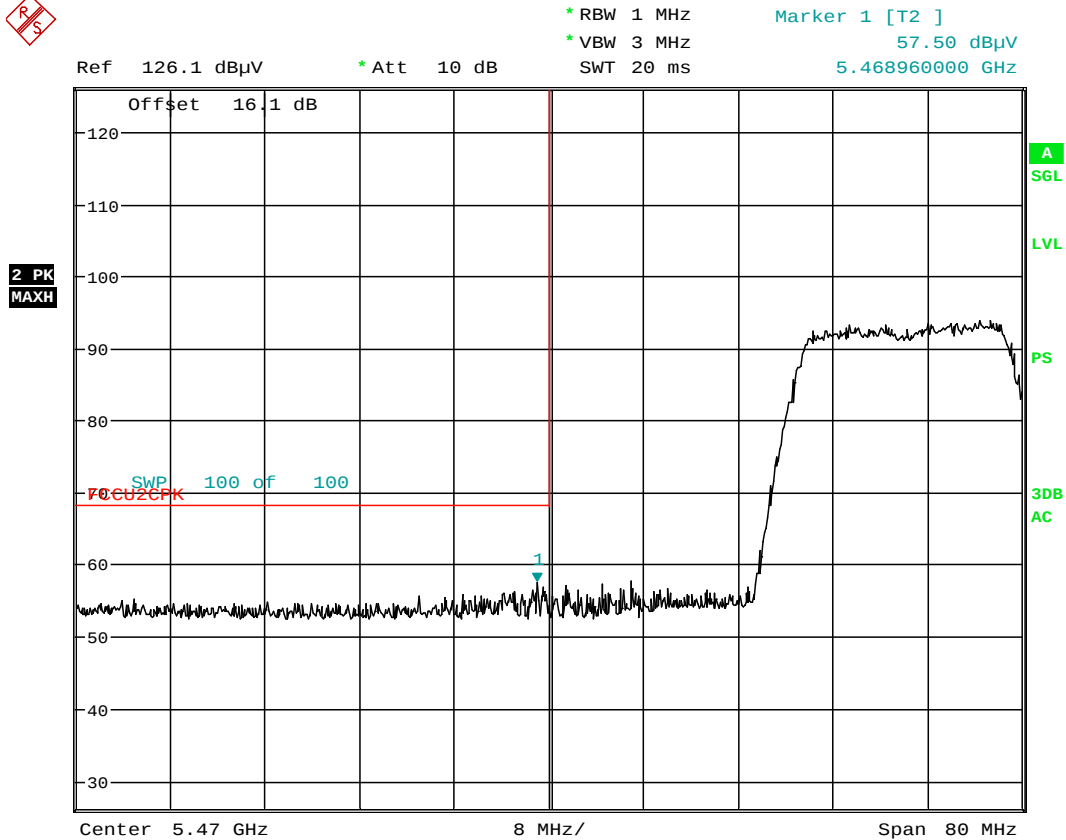


Date: 27.APR.2015 23:08:47

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 183 of 212

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



Date: 27.APR.2015 23:08:10

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 184 of 212

MIMO Radiated Band Edge Measurements (20MHz BW)

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

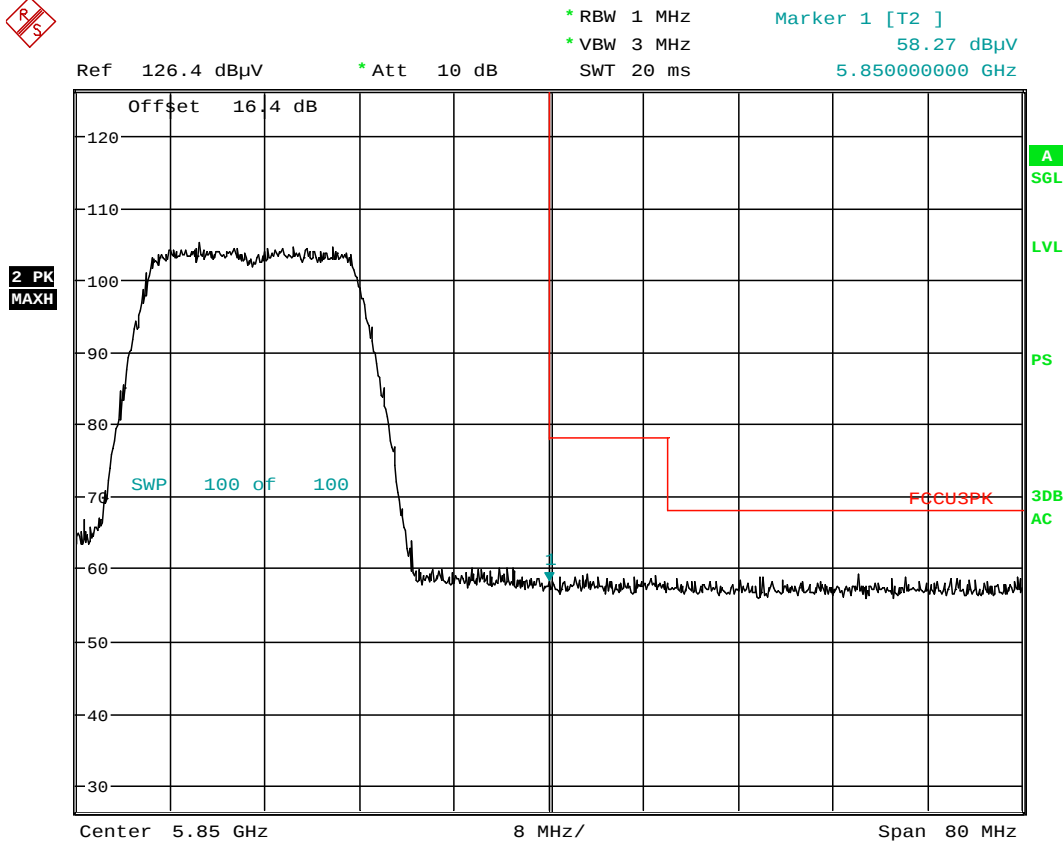
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5825MHz

Channel: 165



Date: 27.APR.2015 23:16:08

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 185 of 212

6.7.10 MIMO Radiated Band Edge Measurements (40MHz BW)

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

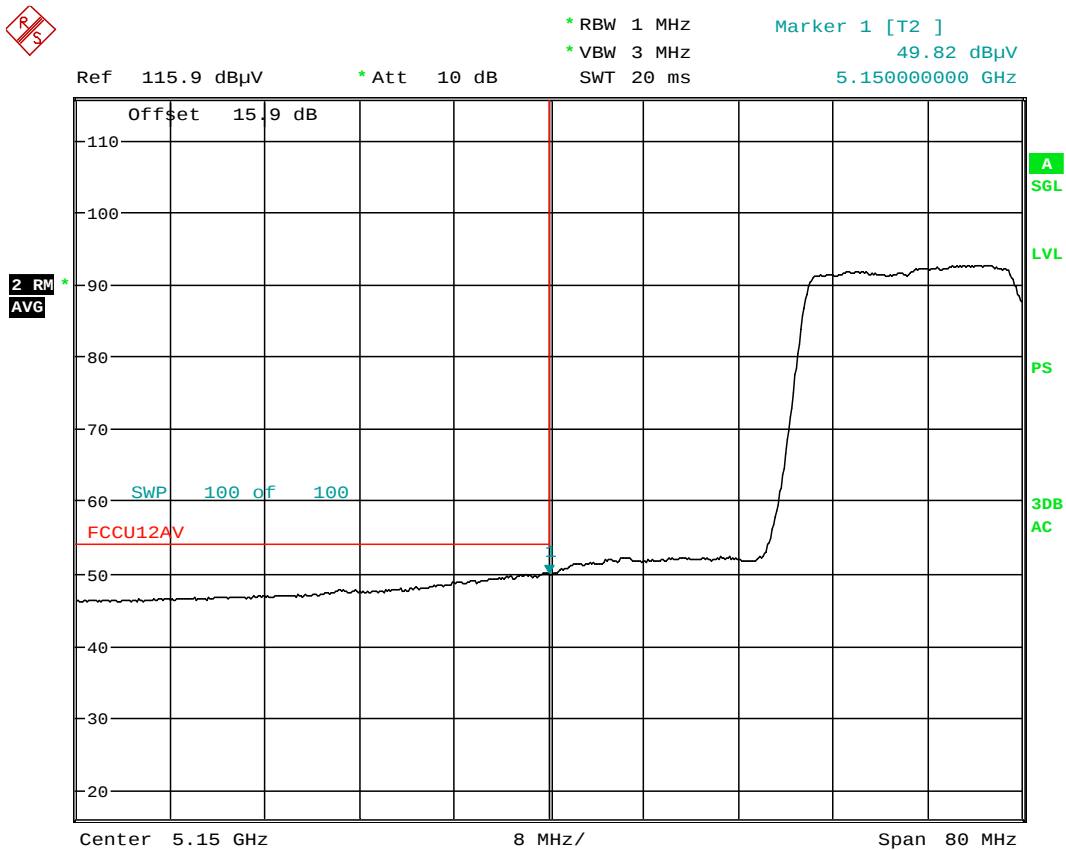
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38



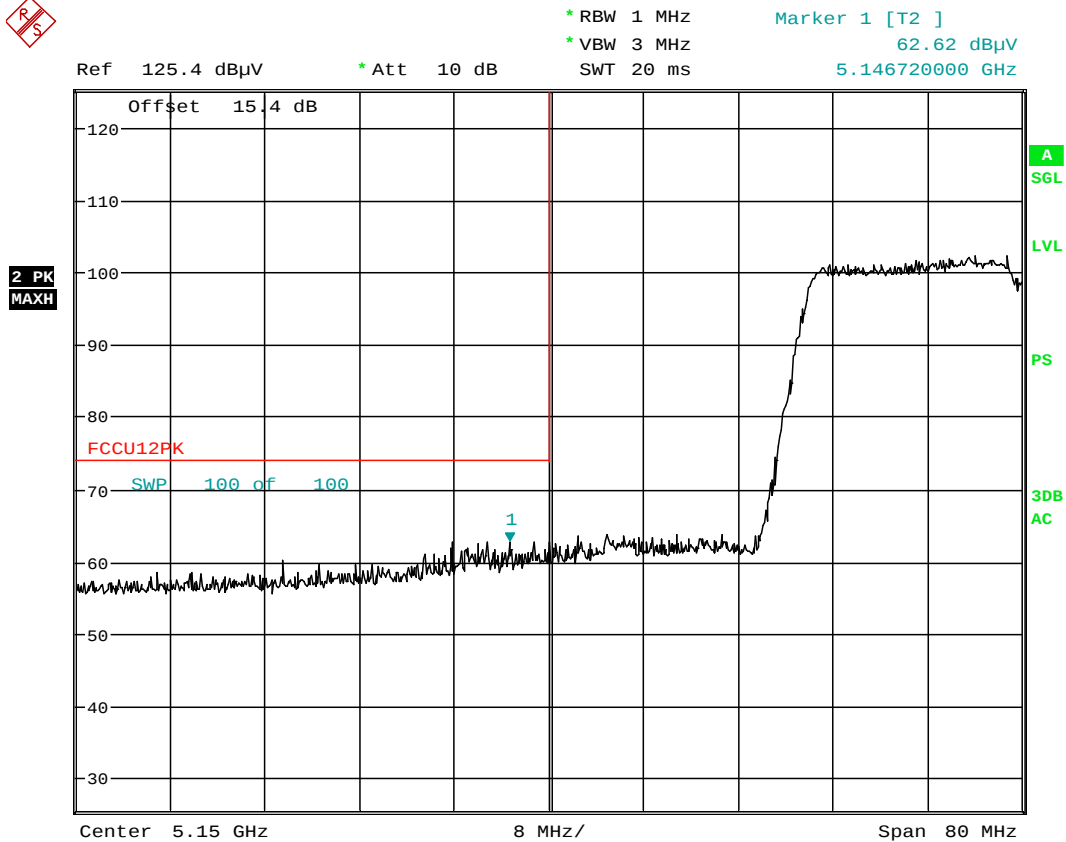
Date: 27.APR.2015 22:51:03

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 186 of 212

MIMO Radiated Band Edge Measurements (40MHz BW)

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



Date: 27.APR.2015 22:52:01

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 187 of 212

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

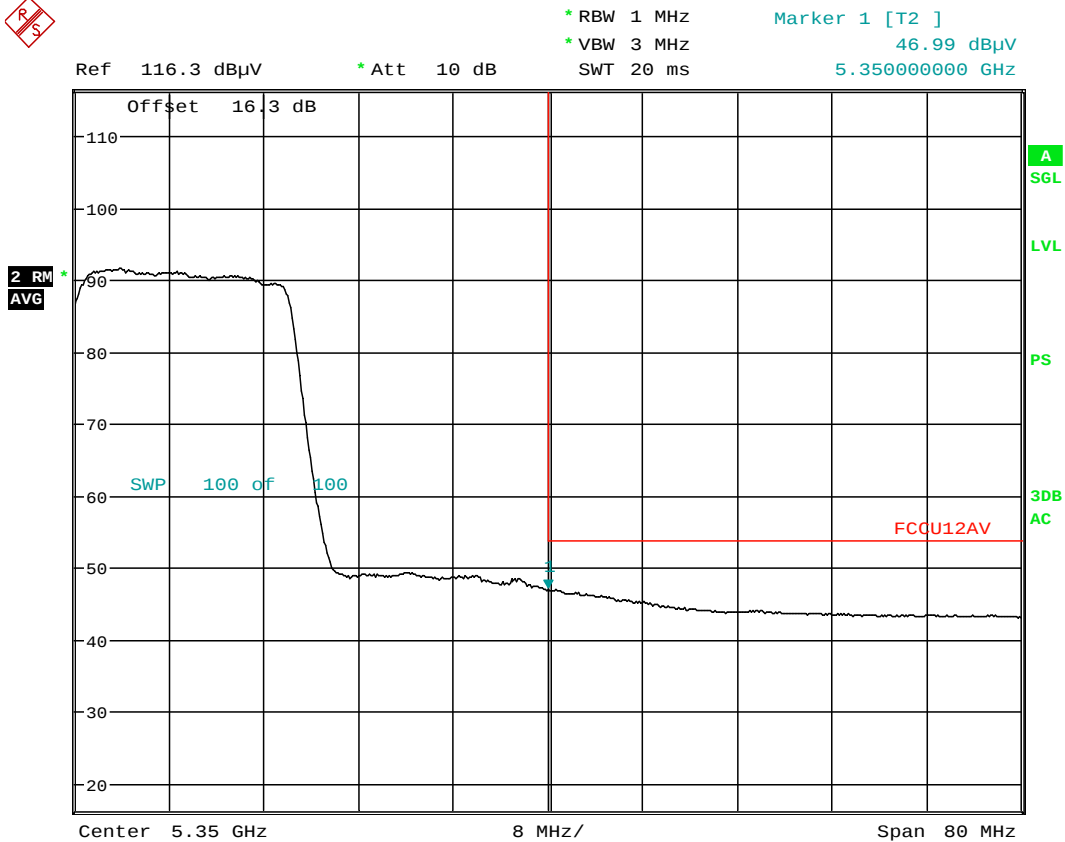
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62



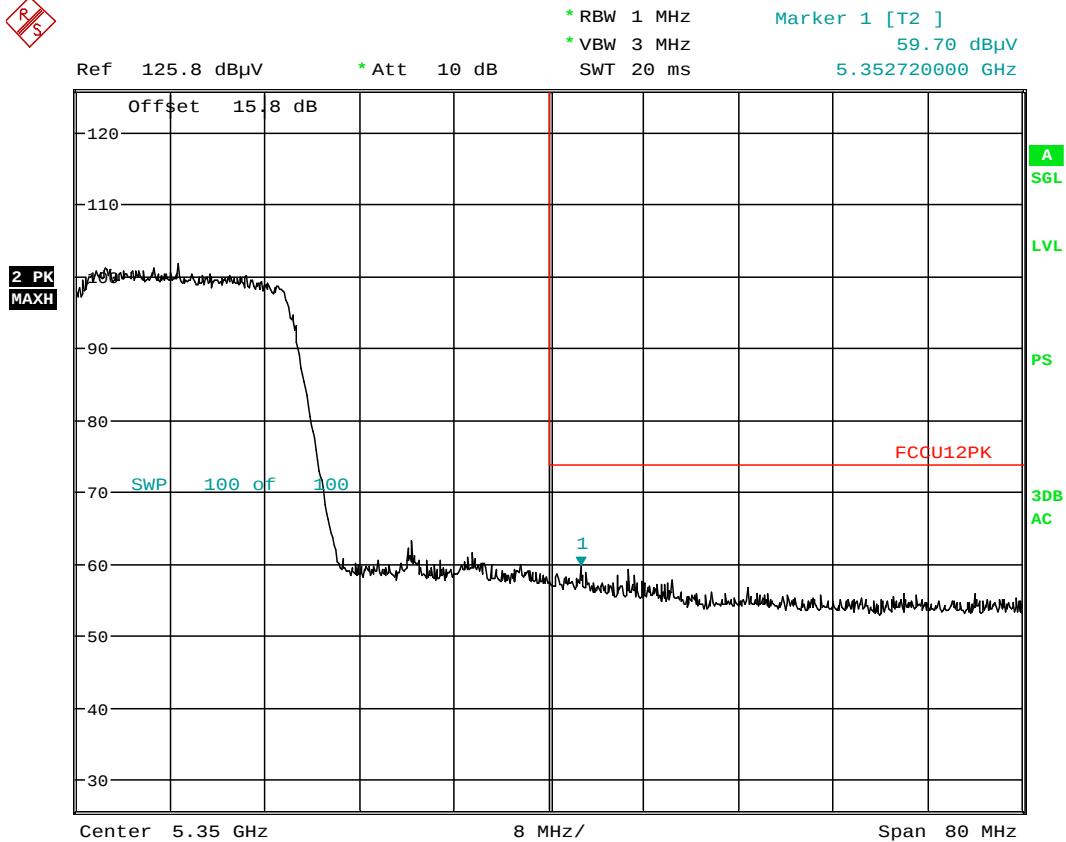
Date: 27.APR.2015 23:01:23

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 188 of 212

MIMO Radiated Band Edge Measurements (40MHz BW)

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



Date: 27.APR.2015 23:01:57

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 189 of 212

MIMO Radiated Band Edge Measurements (40MHz BW)

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

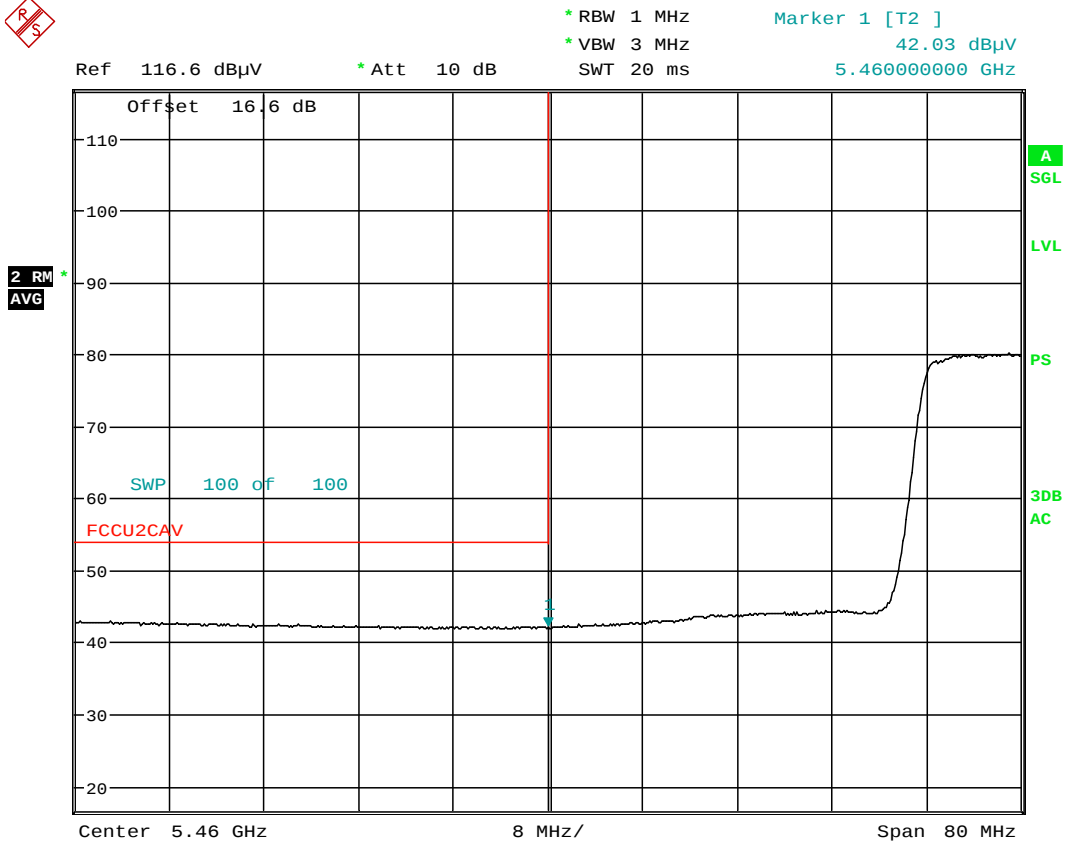
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102

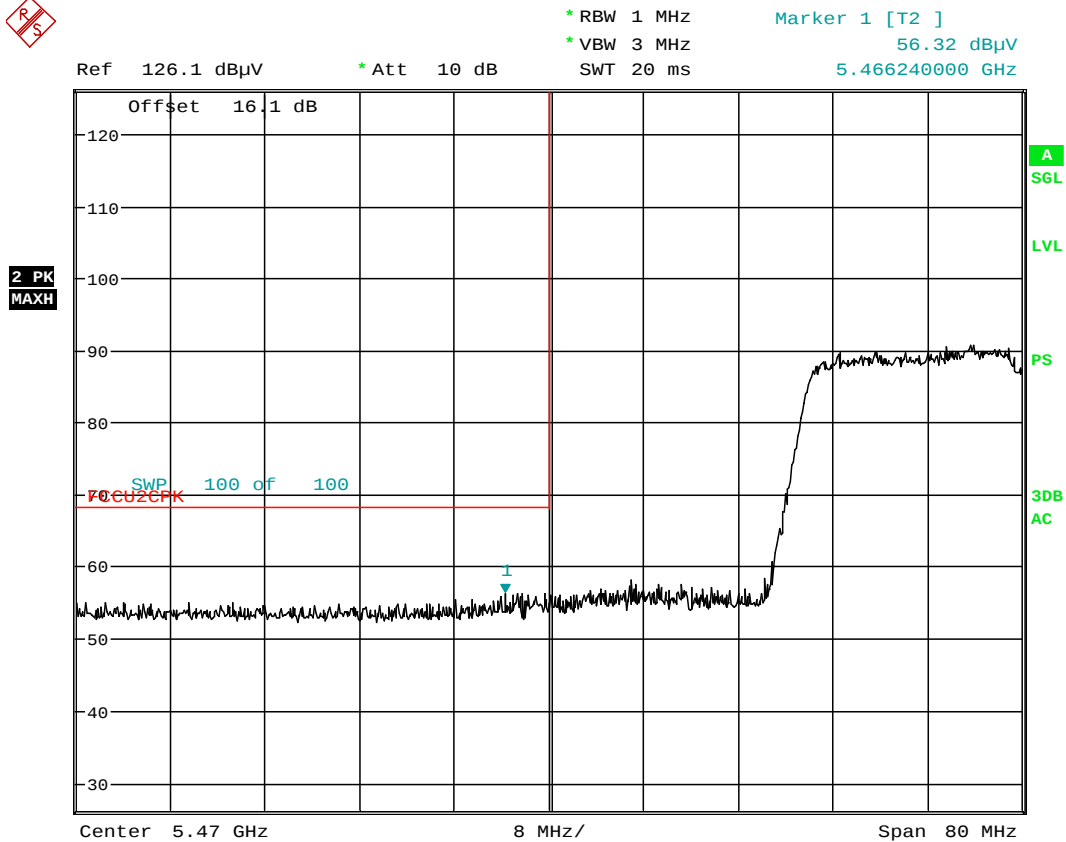


Date: 27.APR.2015 23:10:10

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 190 of 212

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



Date: 27.APR.2015 23:10:46

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 191 of 212

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

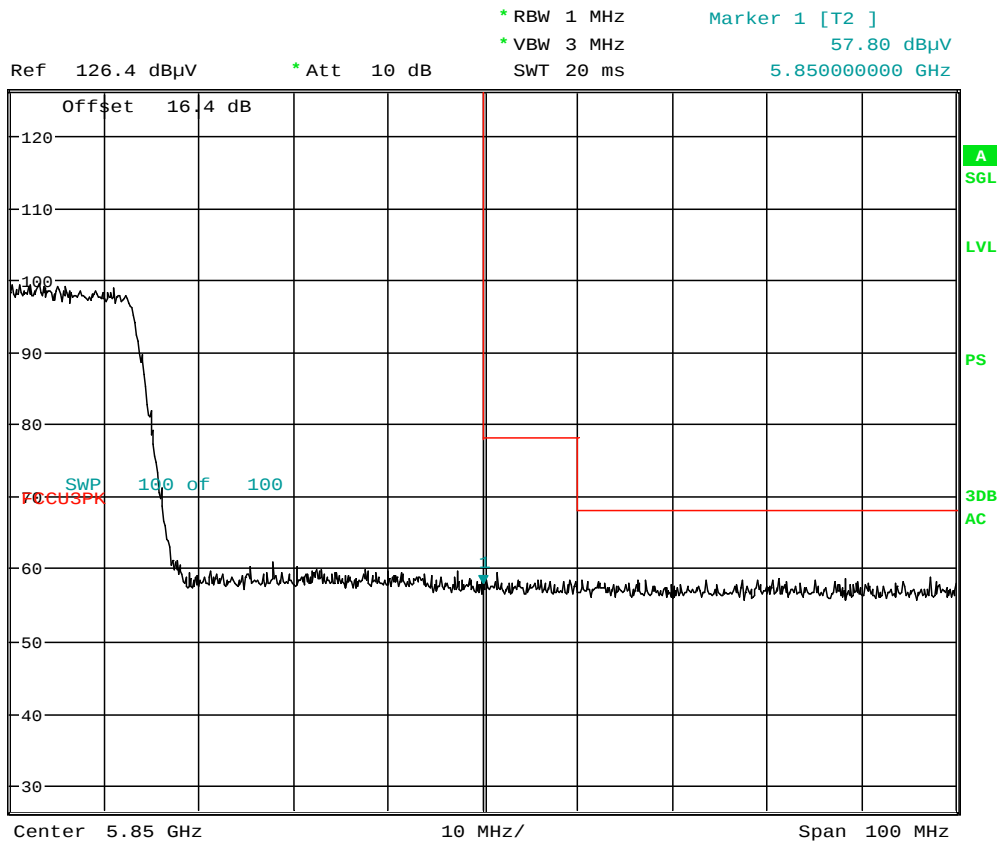
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5795MHz

Channel: 159



Date: 27.APR.2015 23:17:24

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 192 of 212

6.7.11 MIMO Radiated Band Edge Measurements (80MHz BW)

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

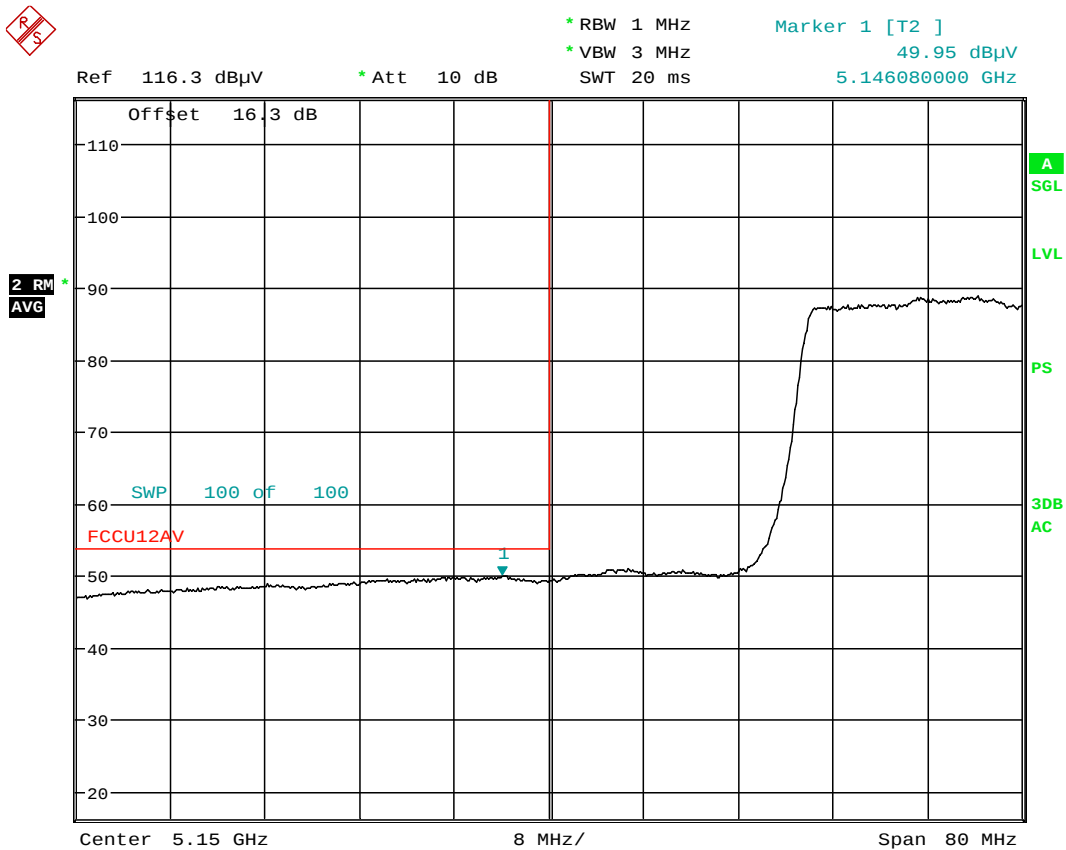
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42

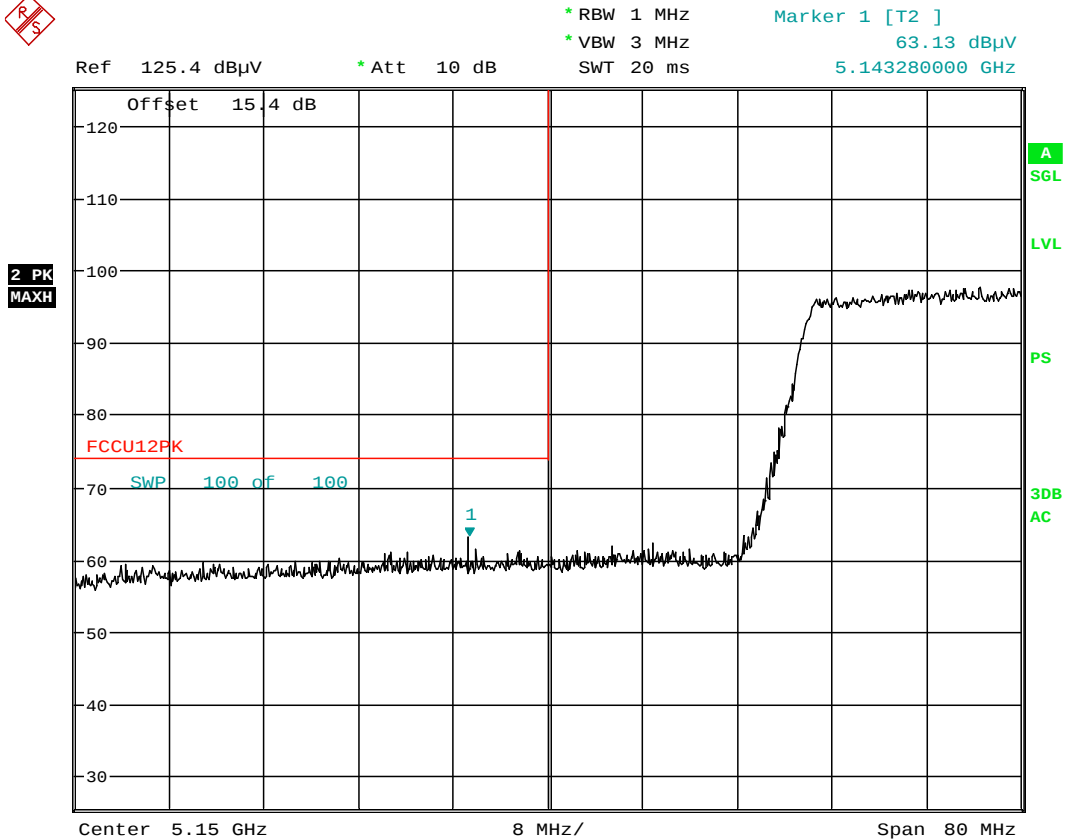


Date: 27.APR.2015 22:55:12

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 193 of 212

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



Date: 27.APR.2015 22:55:40

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 194 of 212

MIMO Radiated Band Edge Measurements (80MHz BW)

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

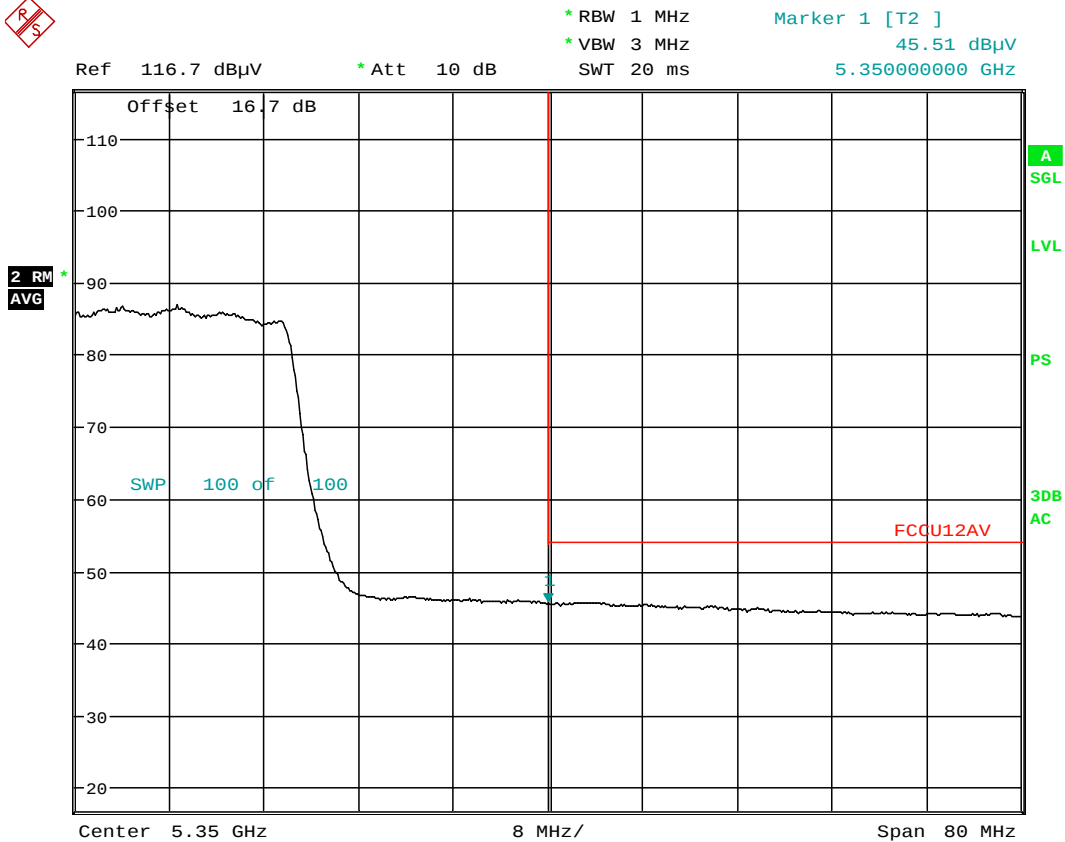
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58



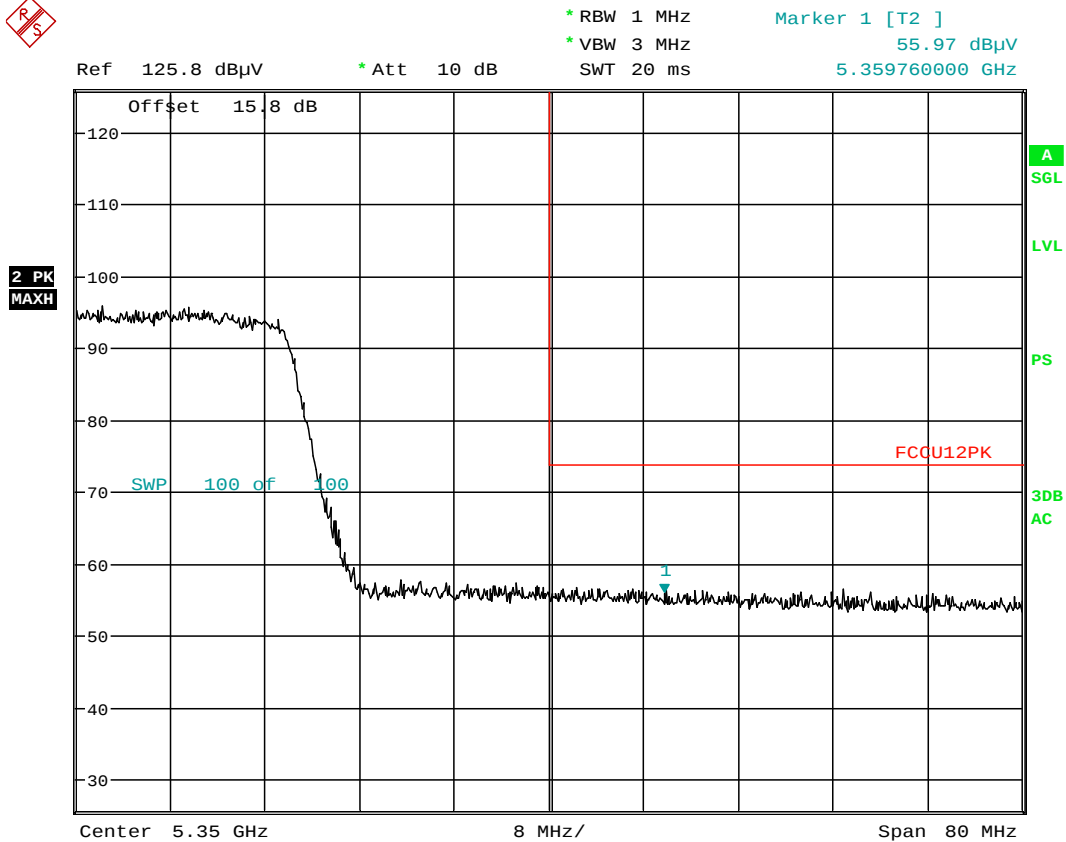
Date: 27.APR.2015 23:03:20

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 195 of 212

MIMO Radiated Band Edge Measurements (80MHz BW)

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



Date: 27.APR.2015 23:03:49

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 196 of 212

MIMO Radiated Band Edge Measurements (80MHz BW)

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

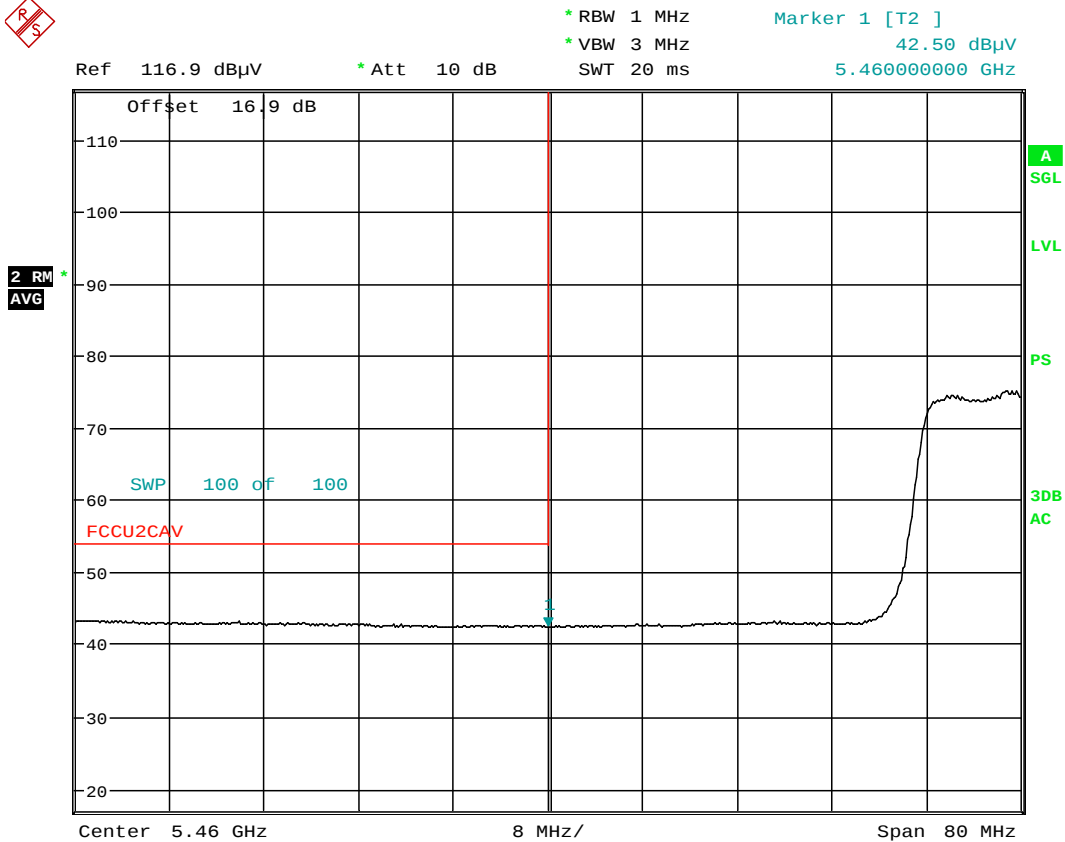
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5530MHz

Channel: 106



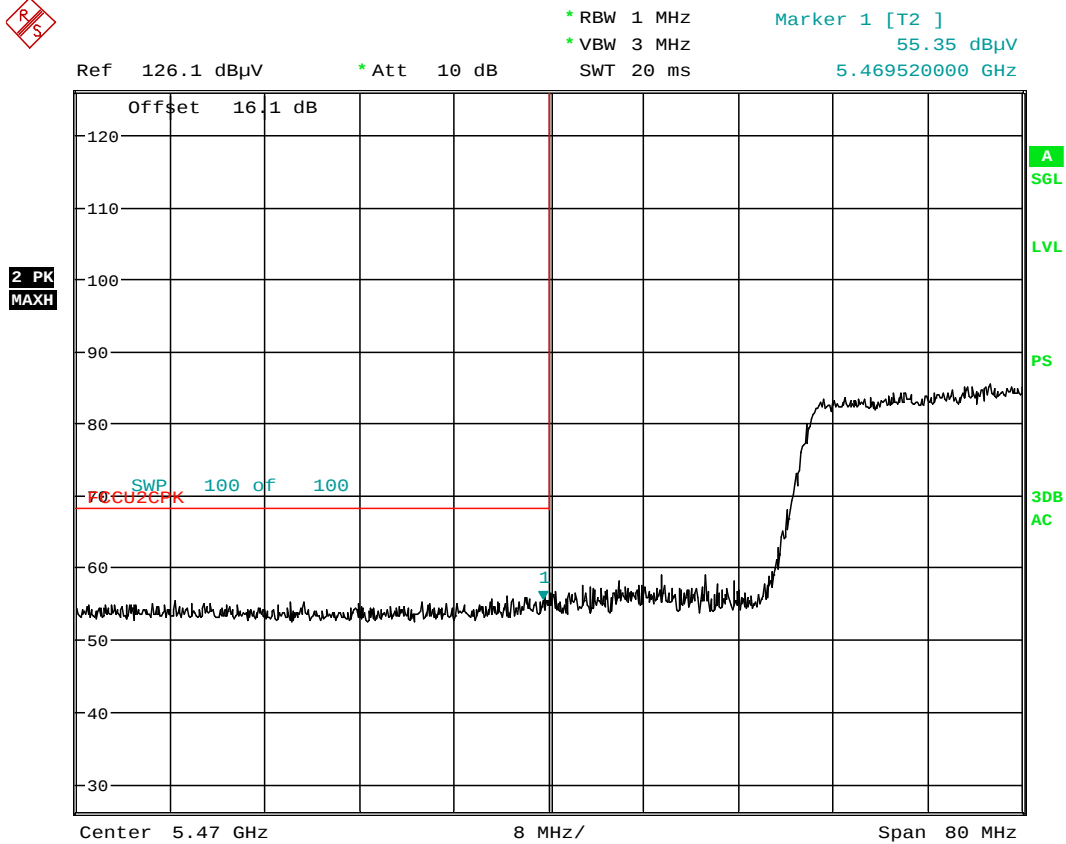
Date: 27.APR.2015 23:12:14

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 197 of 212

MIMO Radiated Band Edge Measurements (80MHz BW)

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



Date: 27.APR.2015 23:12:46

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 198 of 212

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

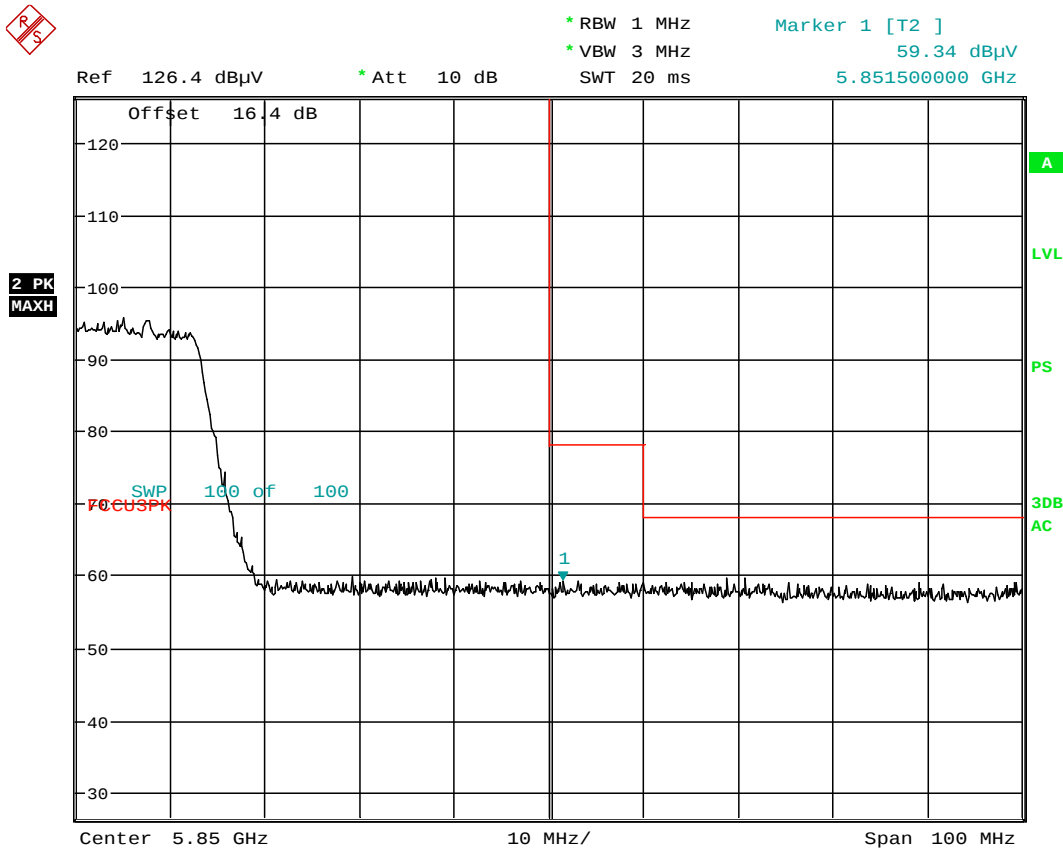
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5775MHz

Channel: 155



Date: 27.APR.2015 23:18:47

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

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 199 of 212

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 6-52 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 6-52. 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

FCC ID: A3LSMT817V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 200 of 212

Test Setup

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

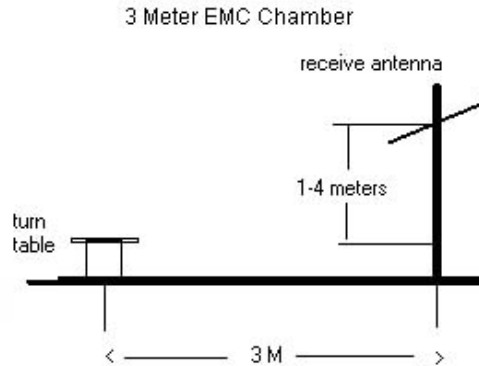


Figure 6-6. Test Instrument & Measurement Setup

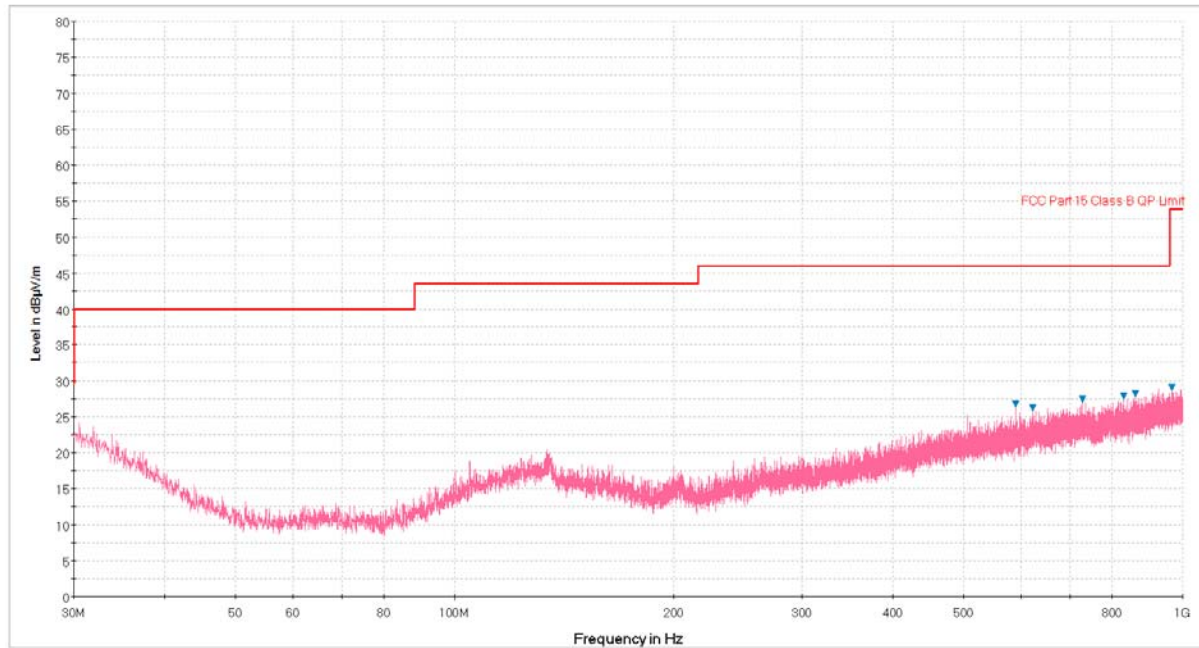
Test Notes

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.
9. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. There were no emissions detected in the 30MHz – 1GHz frequency range, as shown in the subsequent plots.

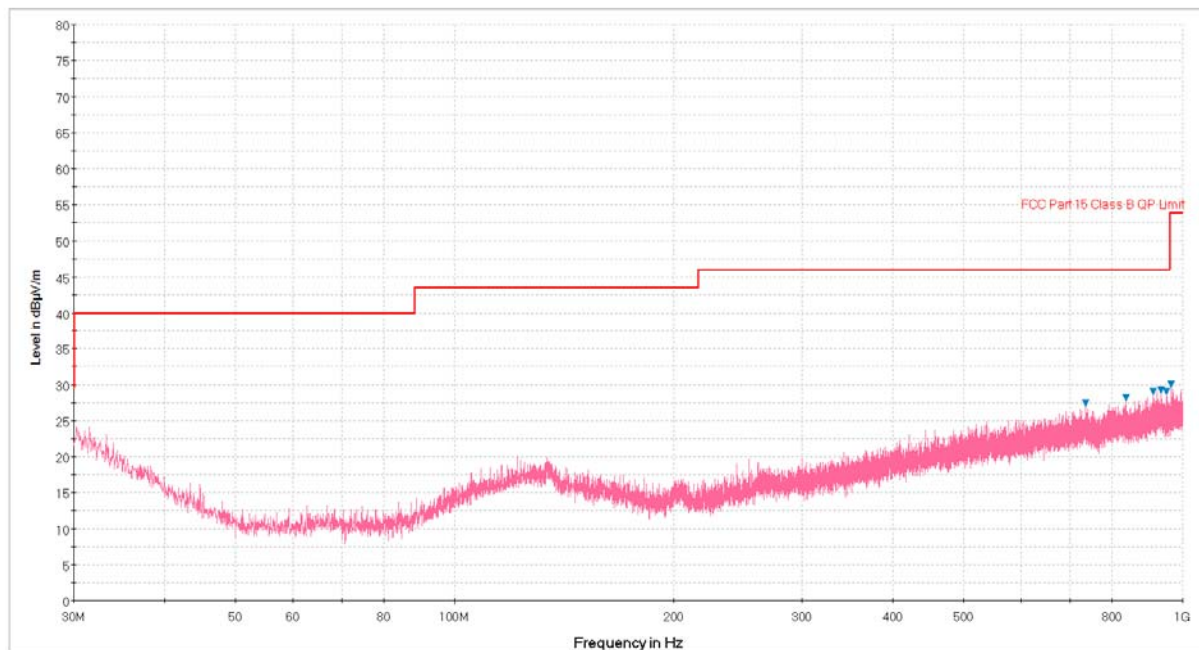
FCC ID: A3LSMT817V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Antenna-1 Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209



Plot 6-236. Radiated Spurious Plot below 1GHz (802.11a – U3 Ch. 157, Ant. Pol. H)

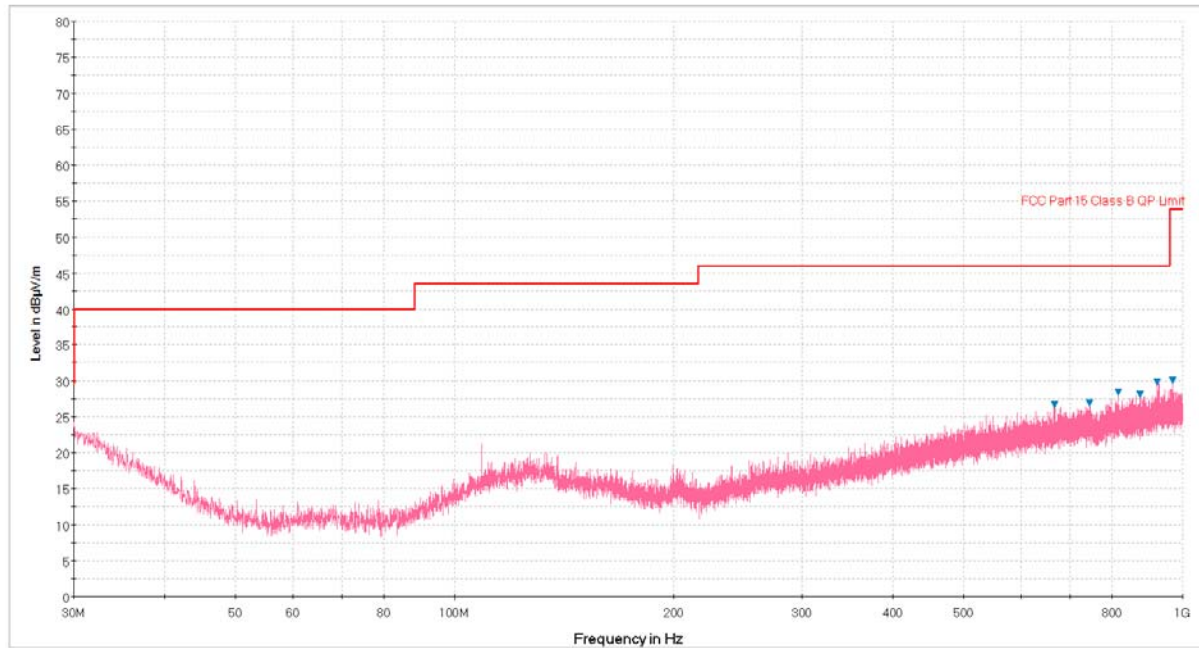


Plot 6-237. Radiated Spurious Plot below 1GHz (802.11a – U3 Ch. 157, Ant. Pol. V)

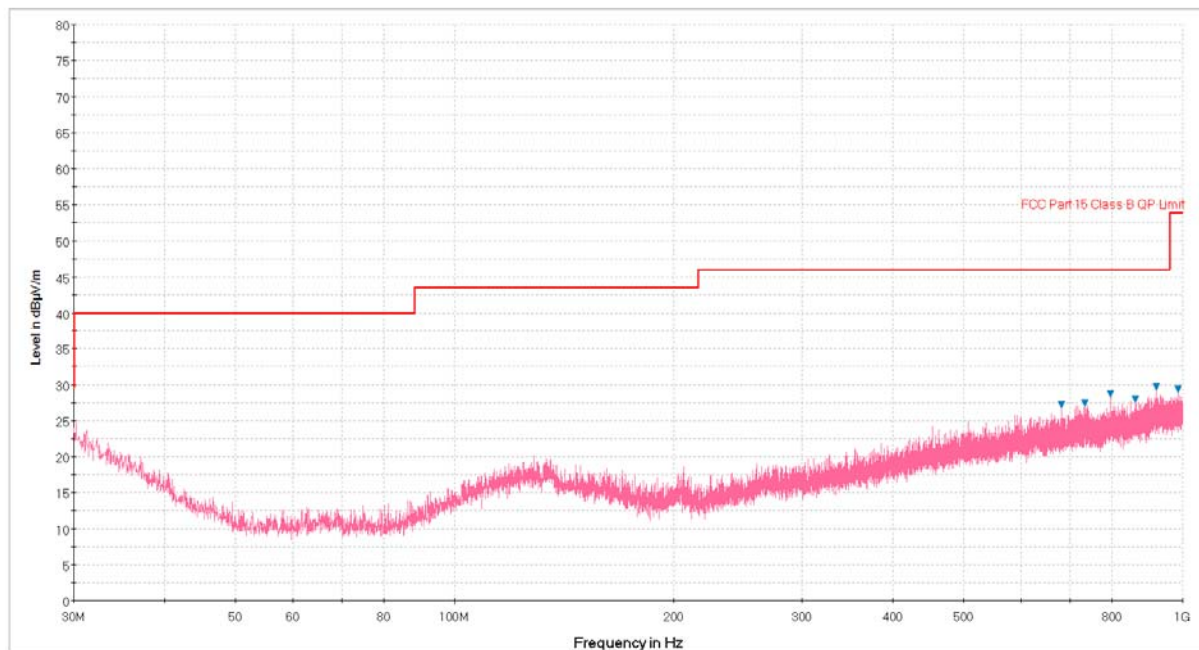
FCC ID: A3LSMT817V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 202 of 212

Antenna-2 Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209



Plot 6-238. Radiated Spurious Plot below 1GHz (802.11a – U3 Ch. 157, Ant. Pol. H)

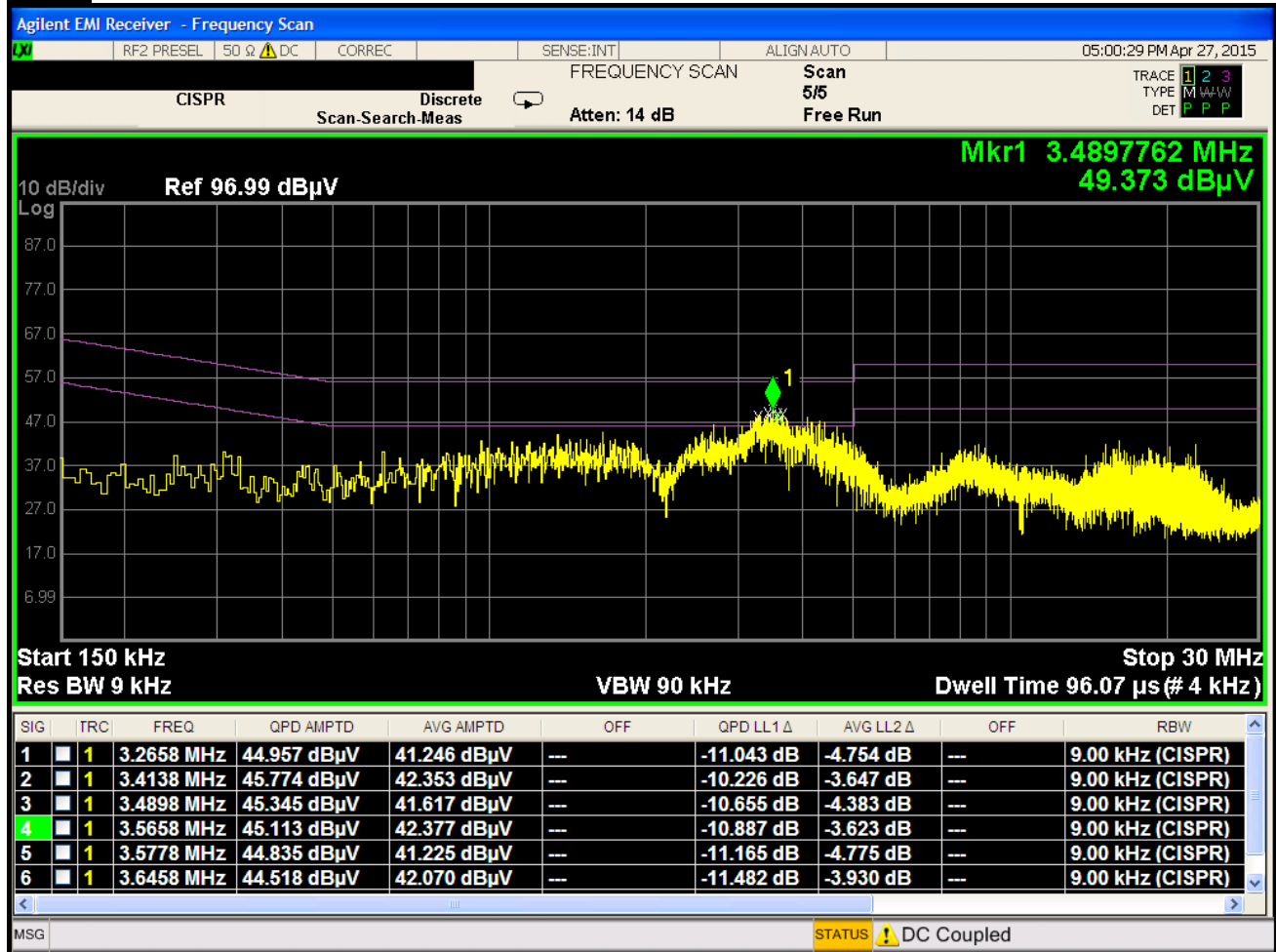


Plot 6-239. Radiated Spurious Plot below 1GHz (802.11a – U3 Ch. 157, Ant. Pol. V)

FCC ID: A3LSMT817V	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: 0Y1504270803.A3L	Test Dates: 4/27 - 5/1/2015	EUT Type: Portable Tablet		Page 203 of 212

6.9 Line-Conducted Test Data

\$15.407



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

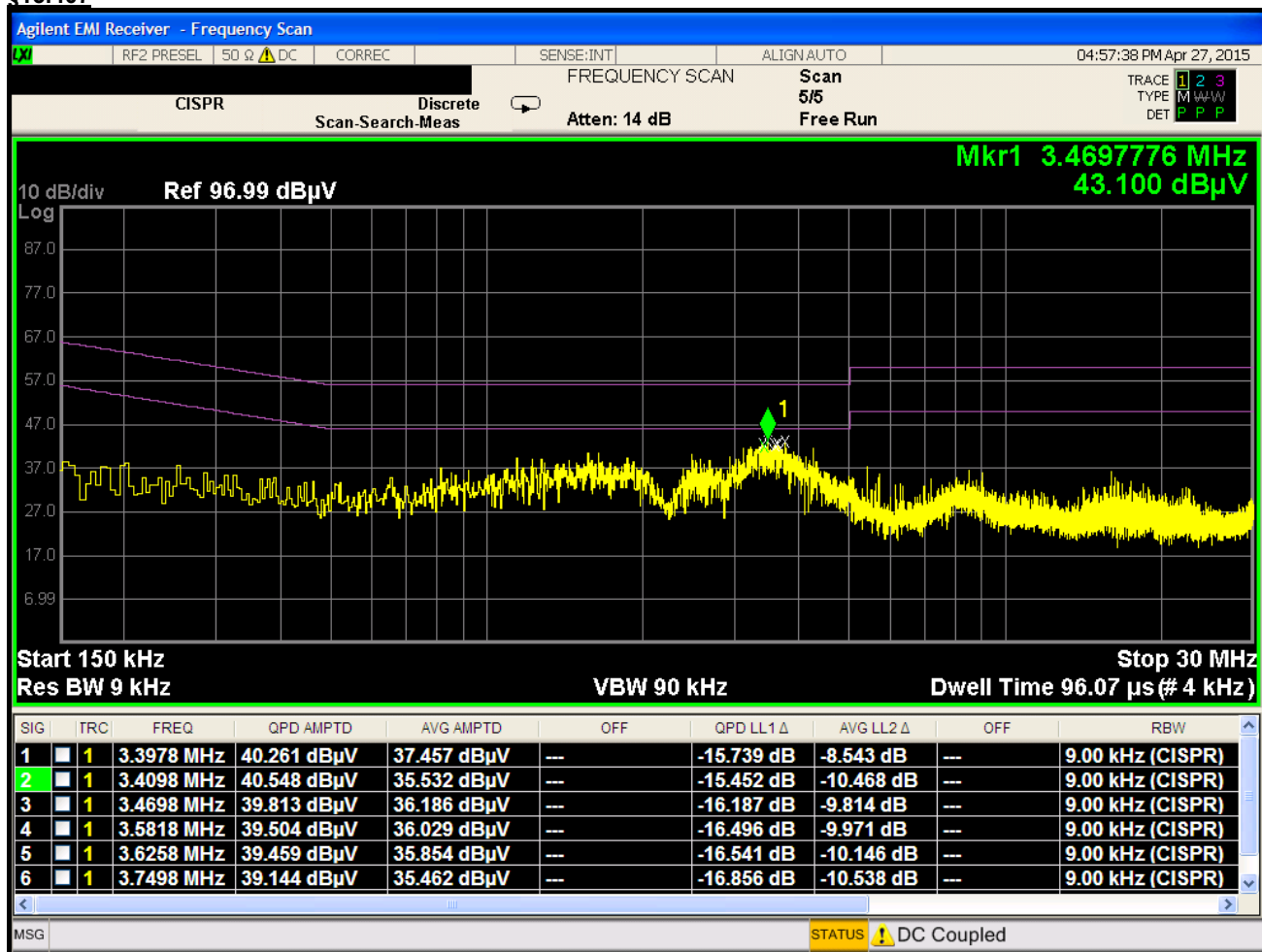
Notes:

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

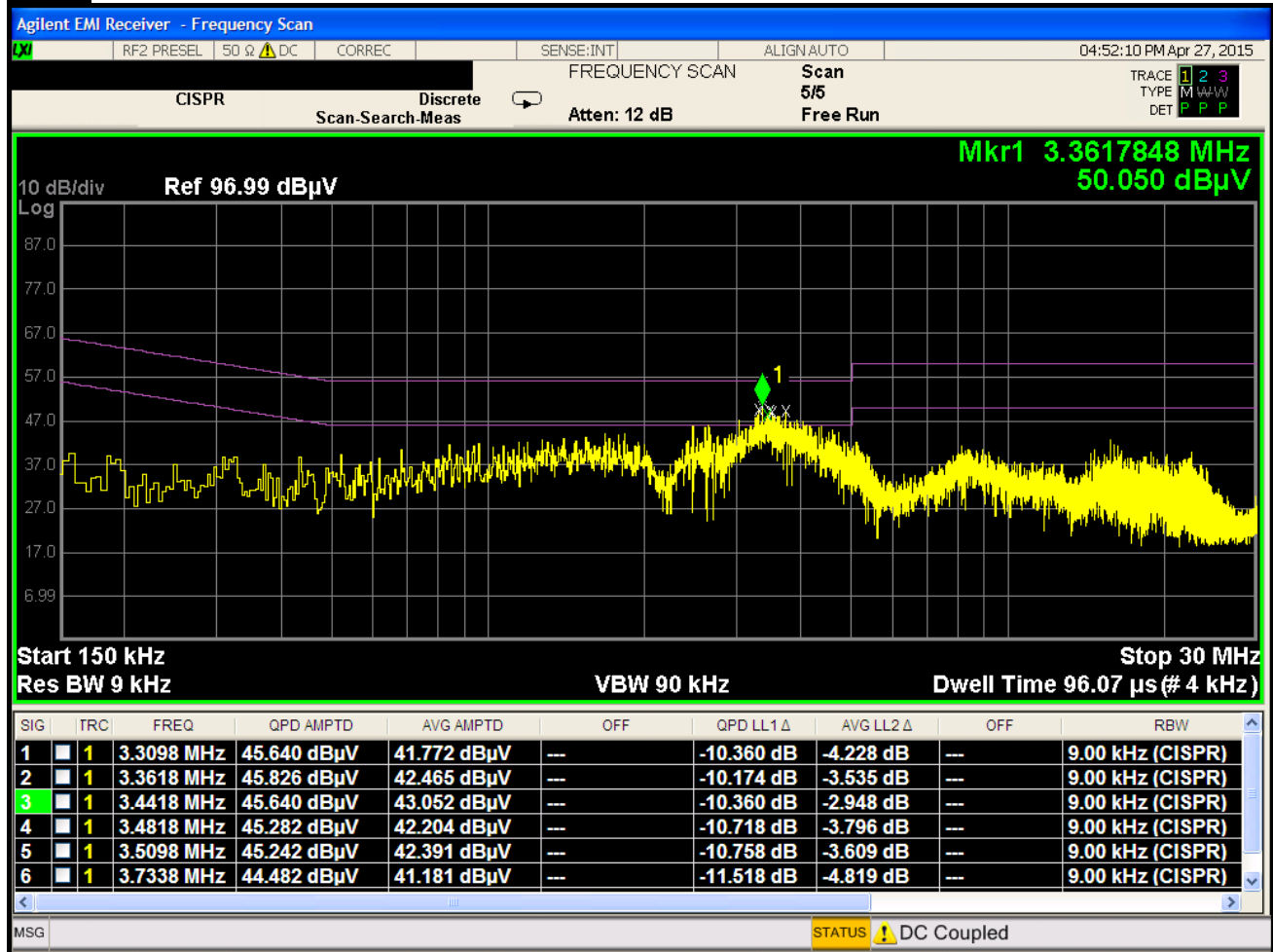
Notes:

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

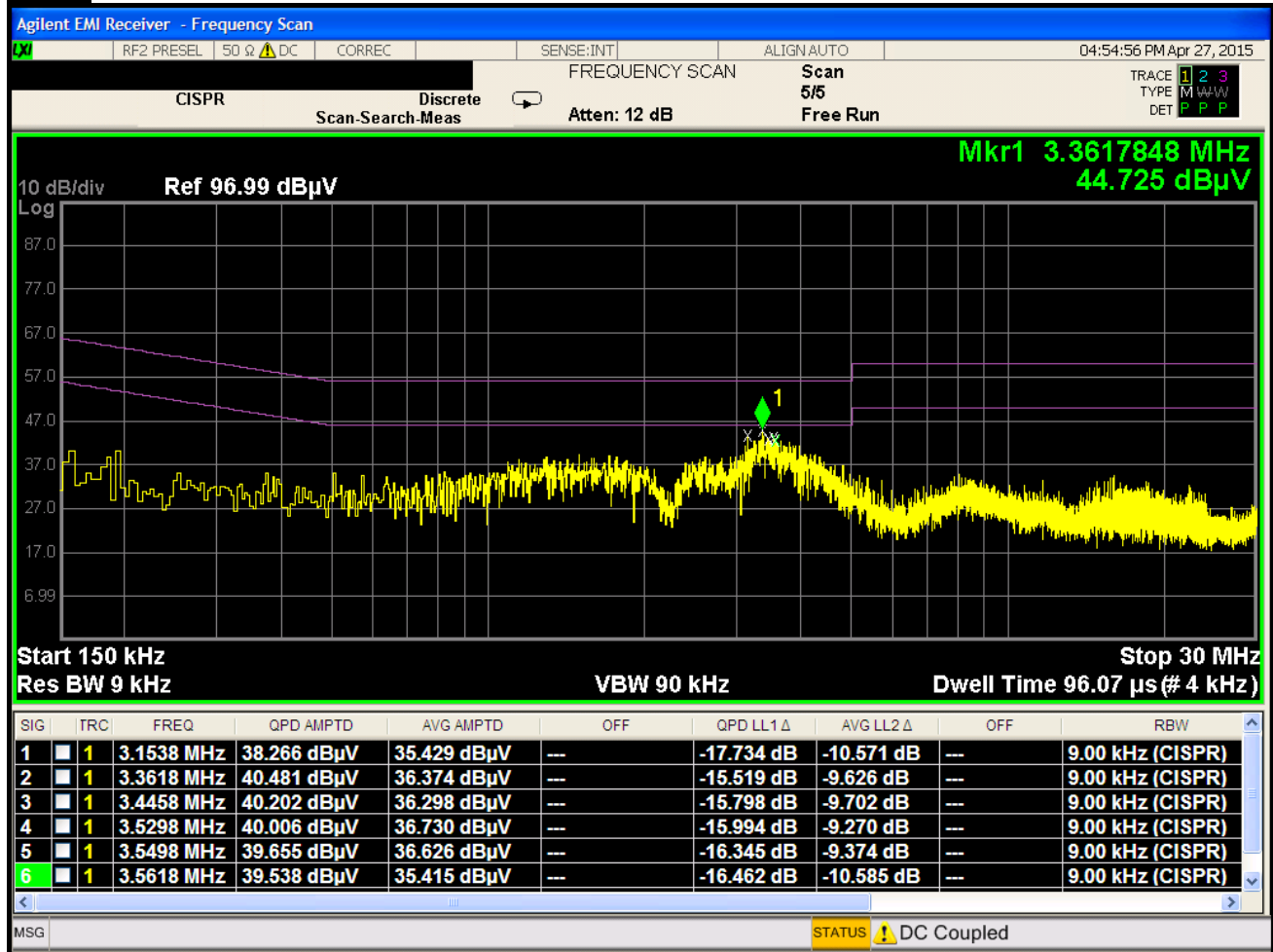
Notes:

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

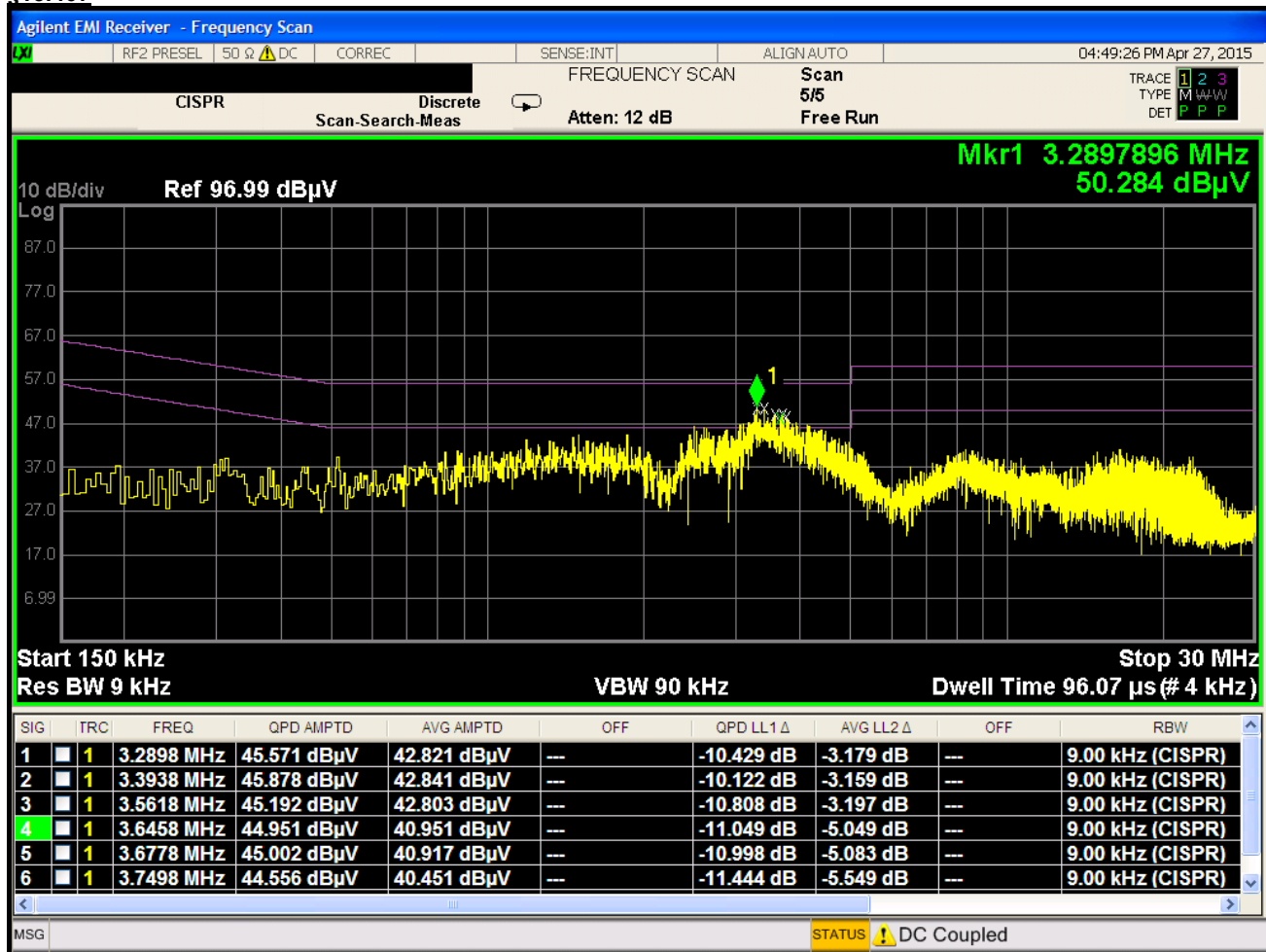
Notes:

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

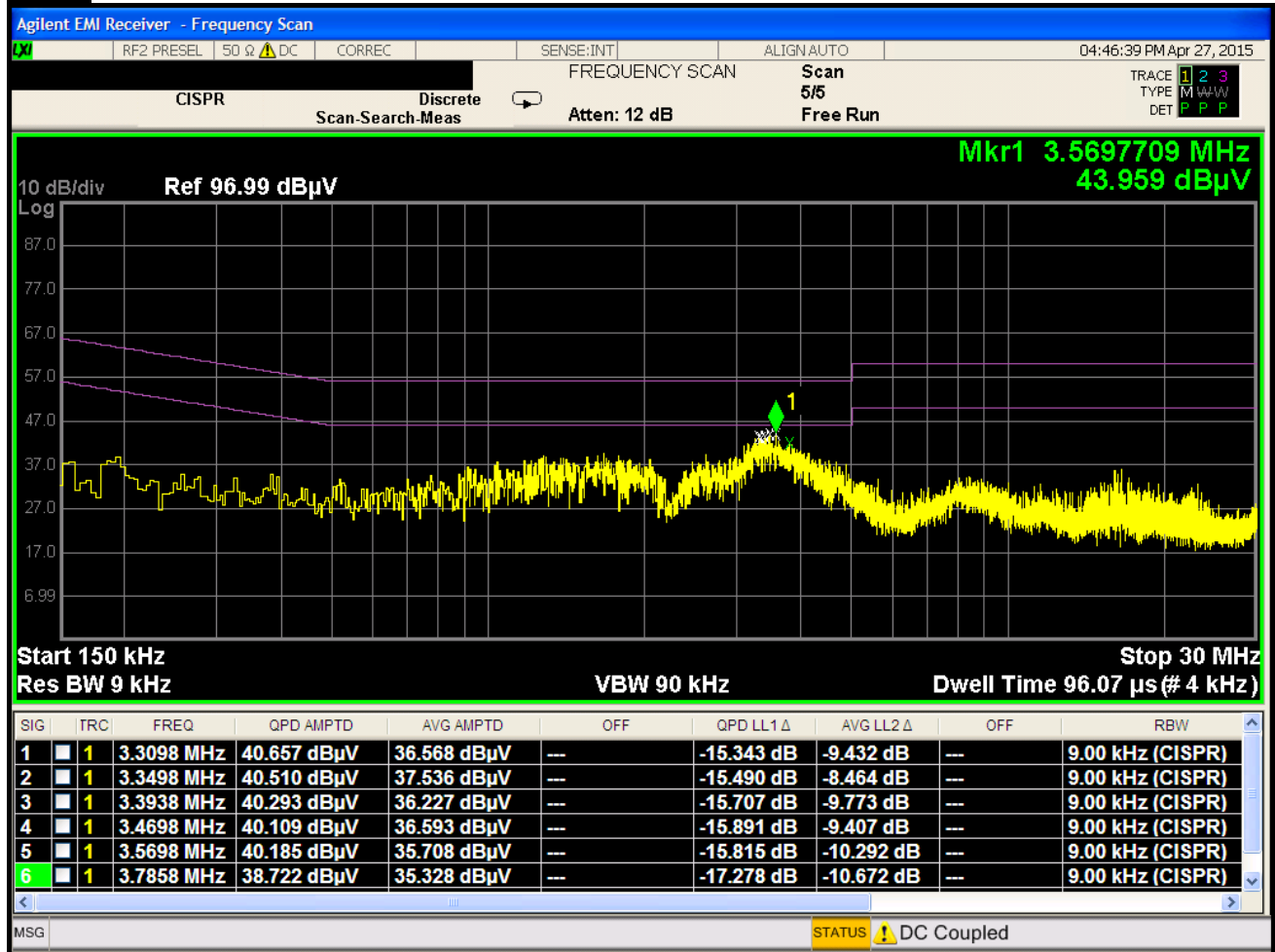
Notes:

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

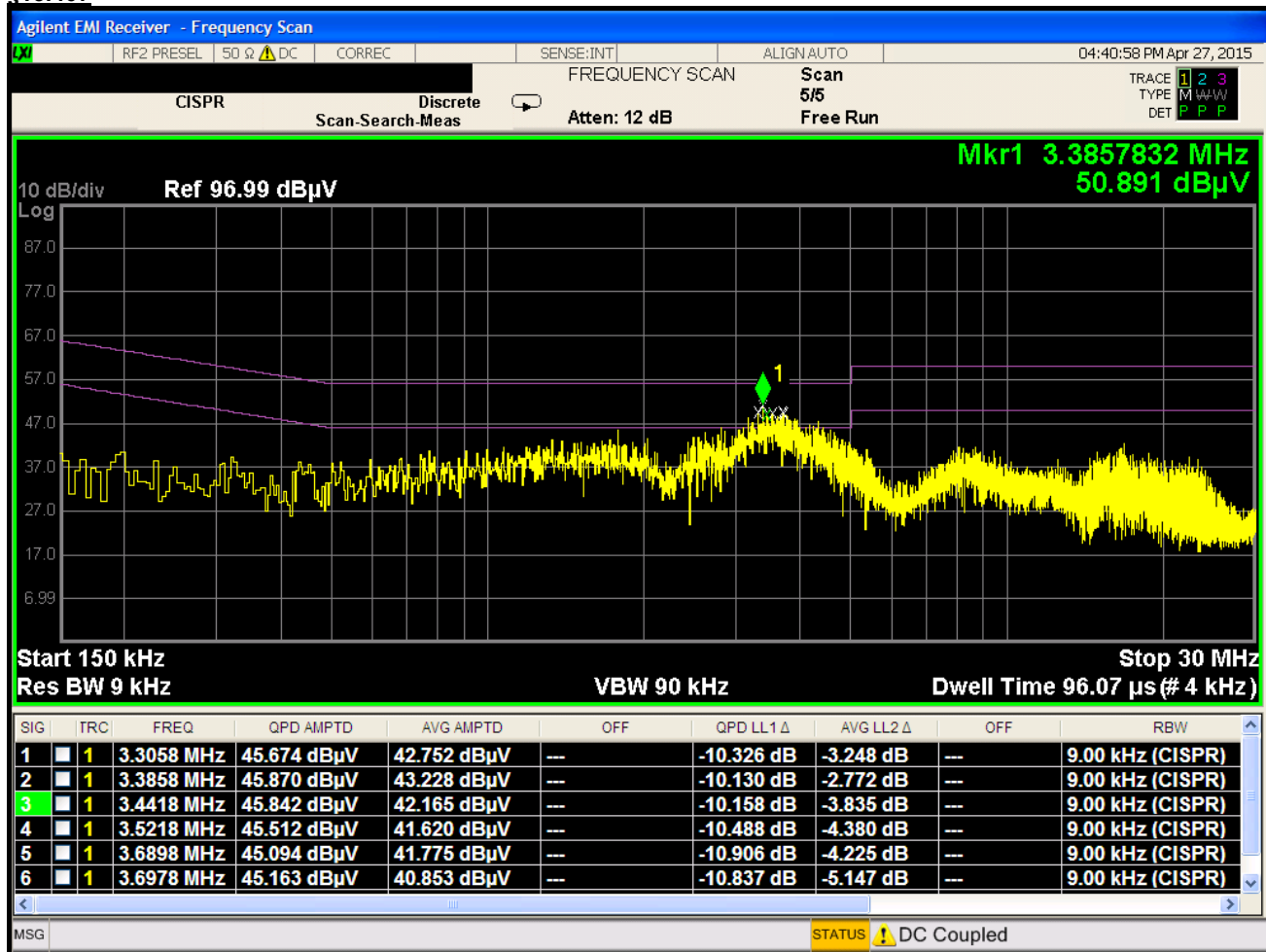
Notes:

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

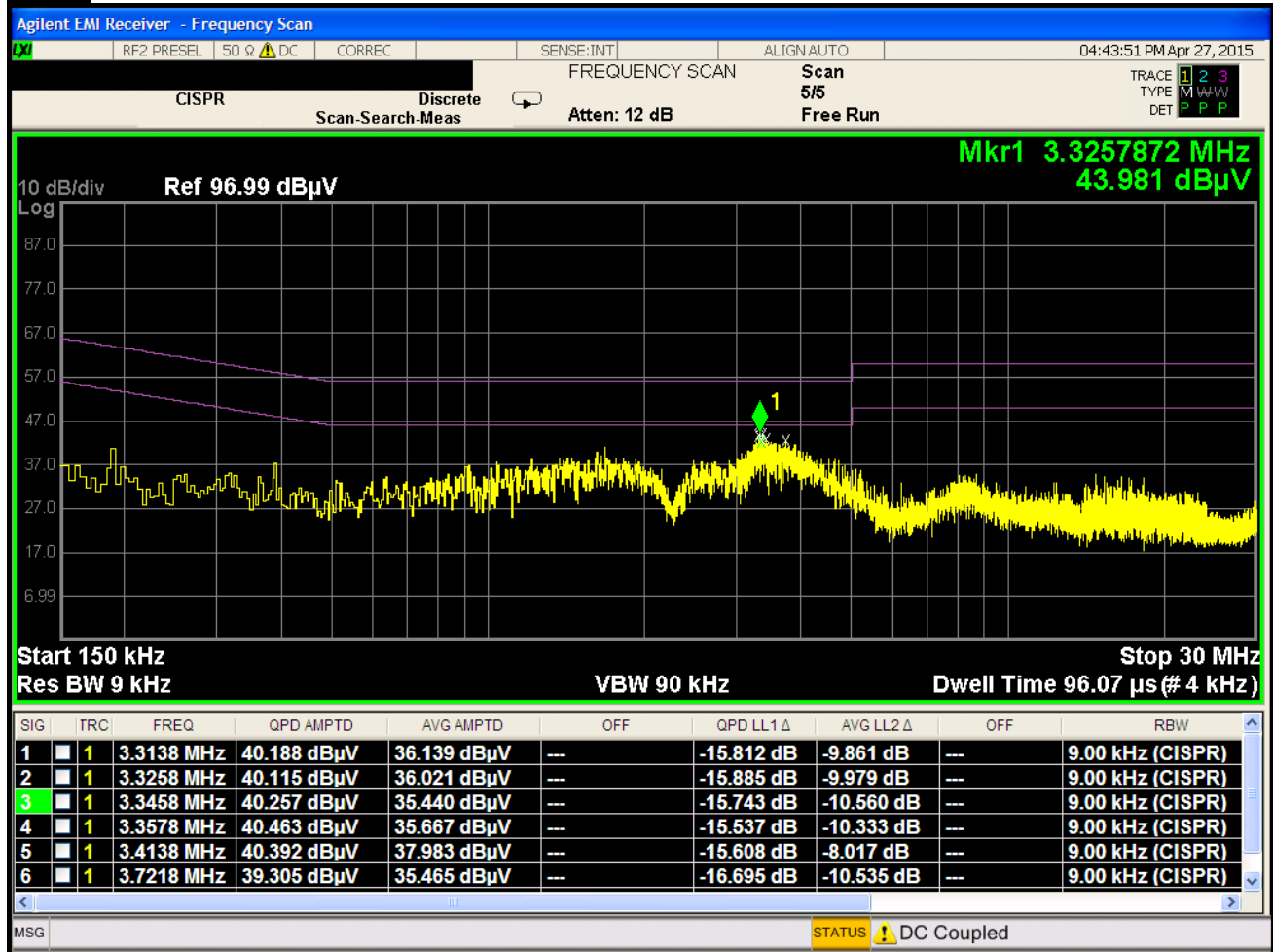
Notes:

- 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 149. 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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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 Tablet FCC ID: A3LSMT817V** is in compliance with Part 15E of the FCC Rules.

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