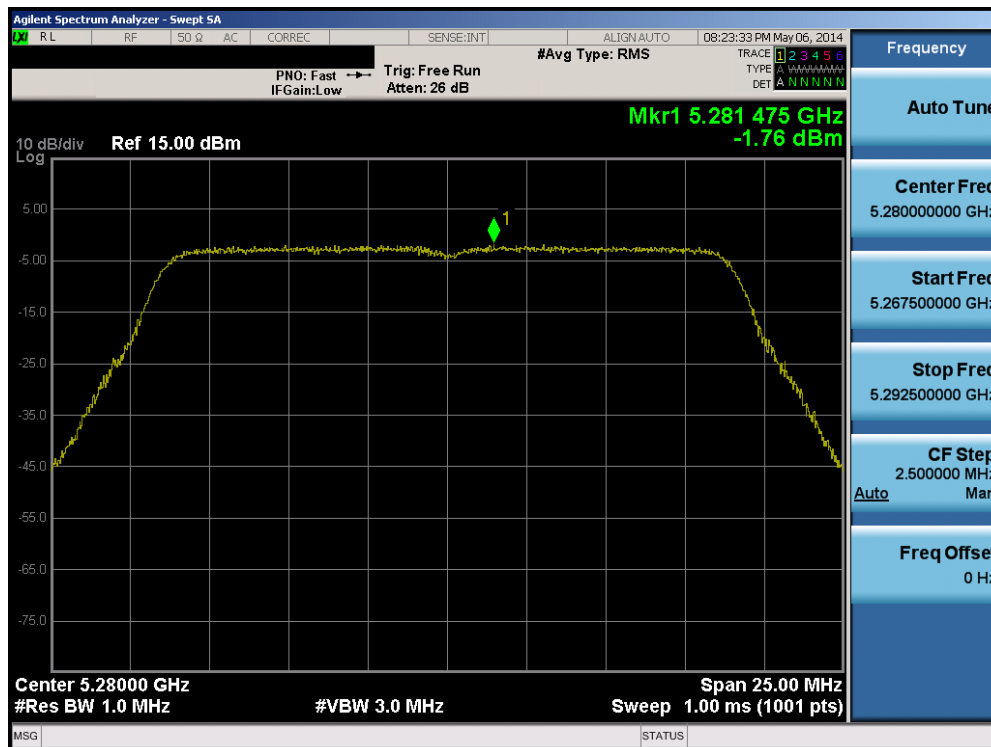
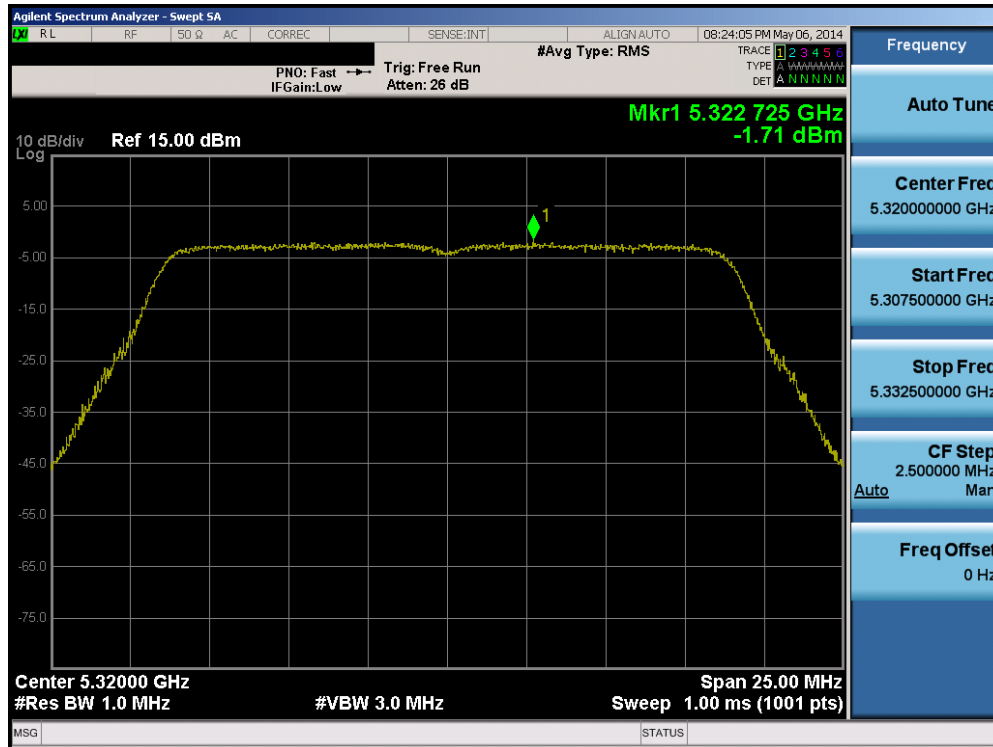


Plot 6-111. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

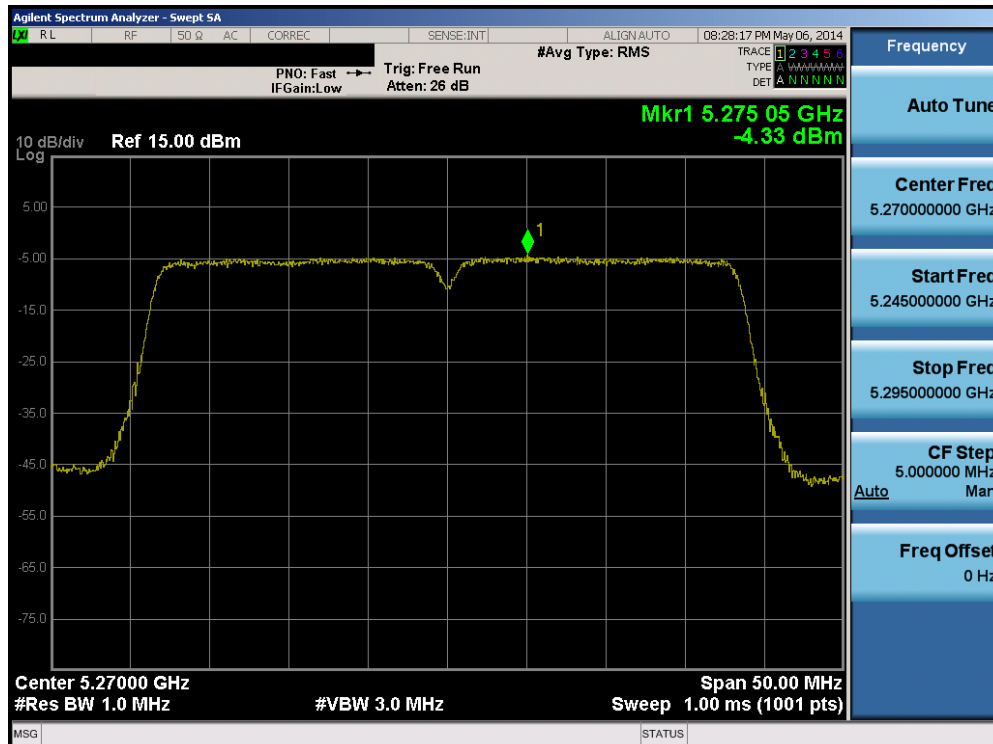


Plot 6-112. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 81 of 184

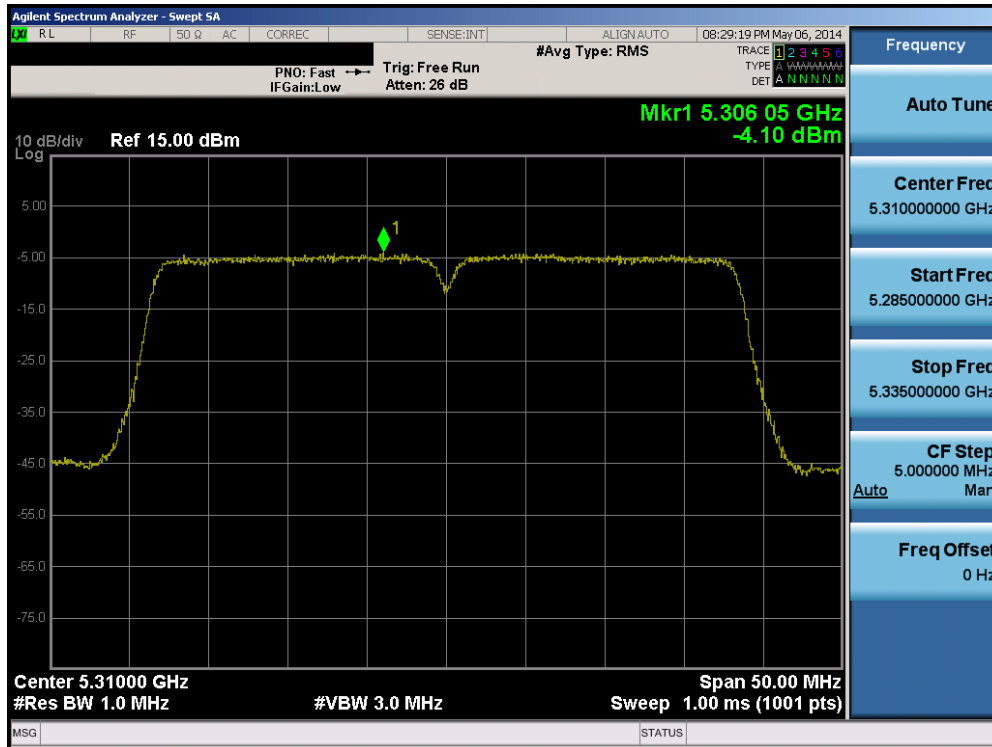


Plot 6-113. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

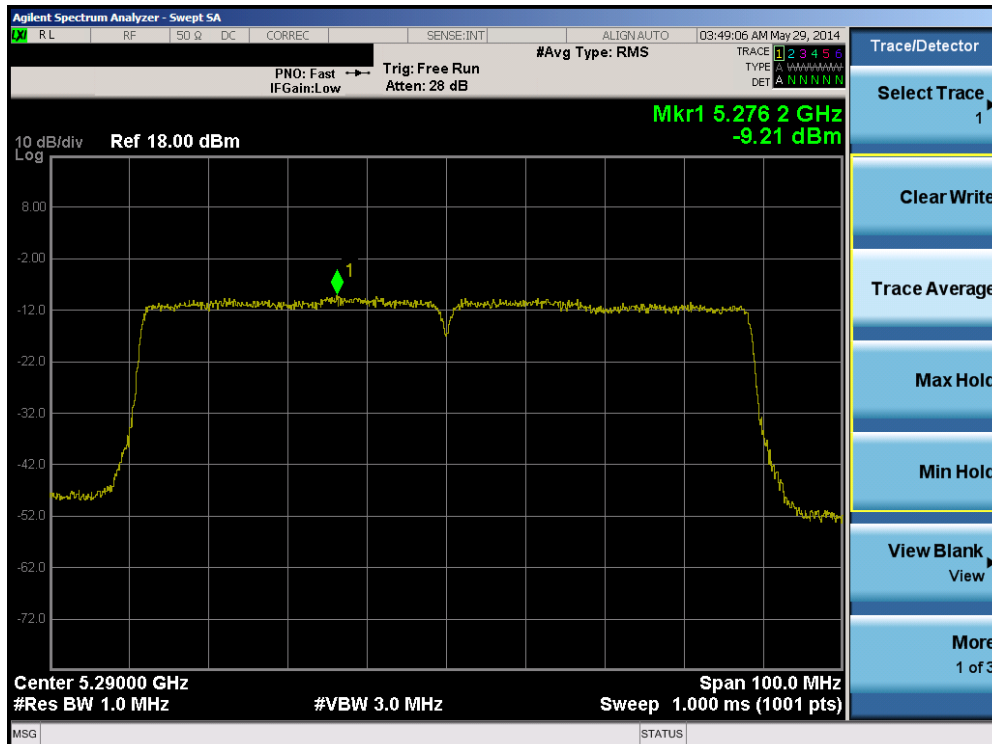


Plot 6-114. Peak Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 82 of 184

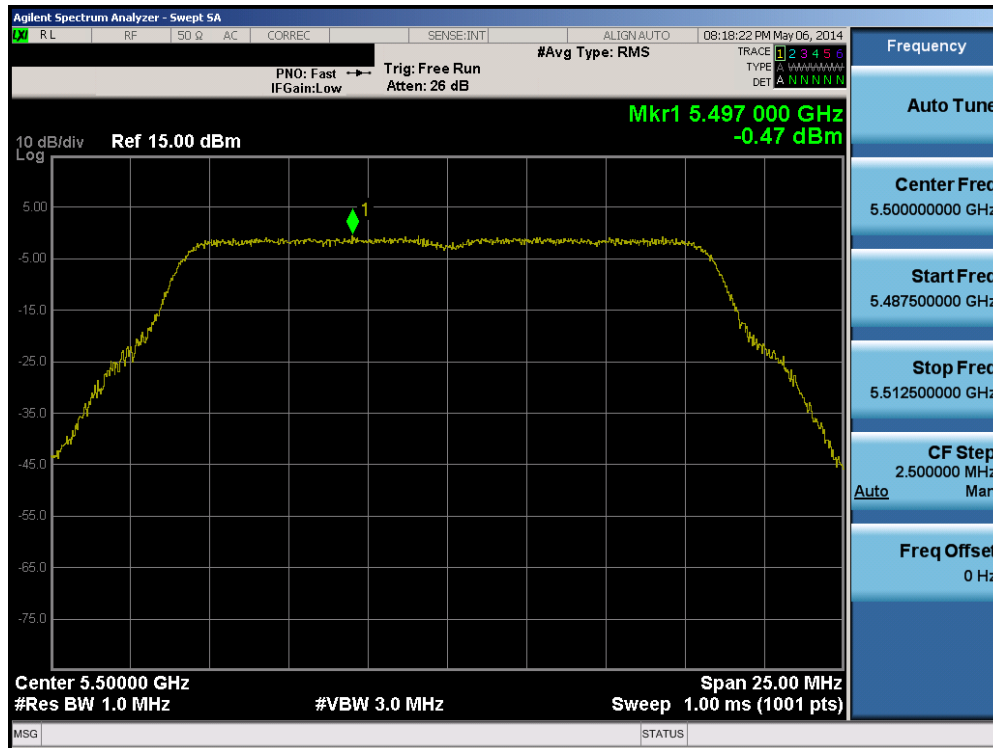


Plot 6-115. Peak Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

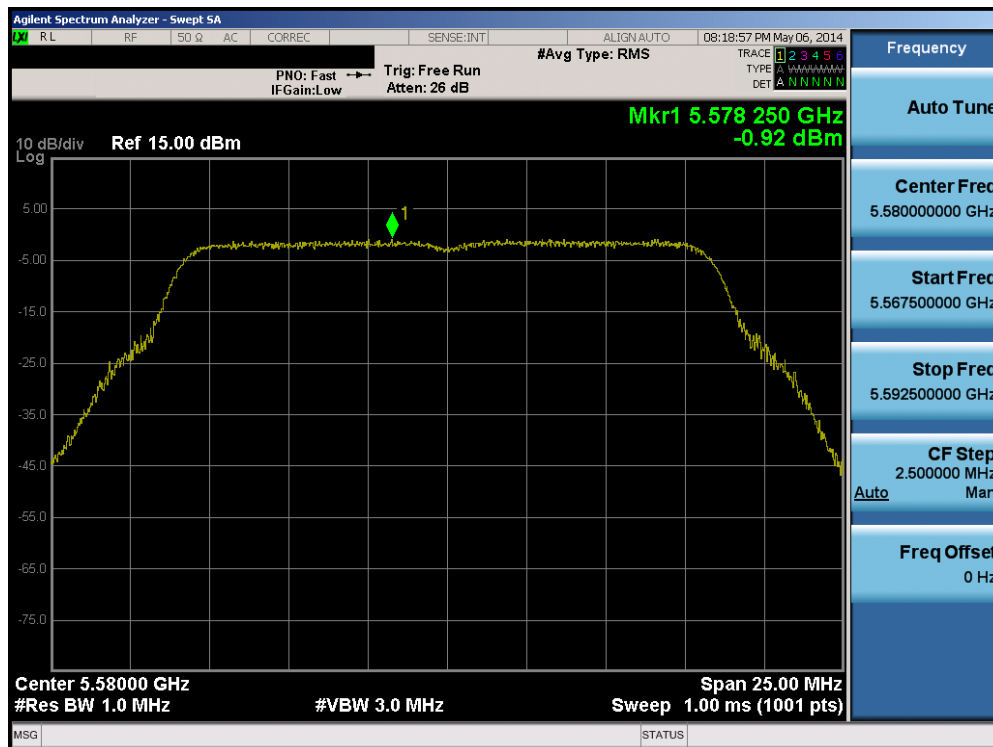


Plot 6-116. Peak Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 83 of 184

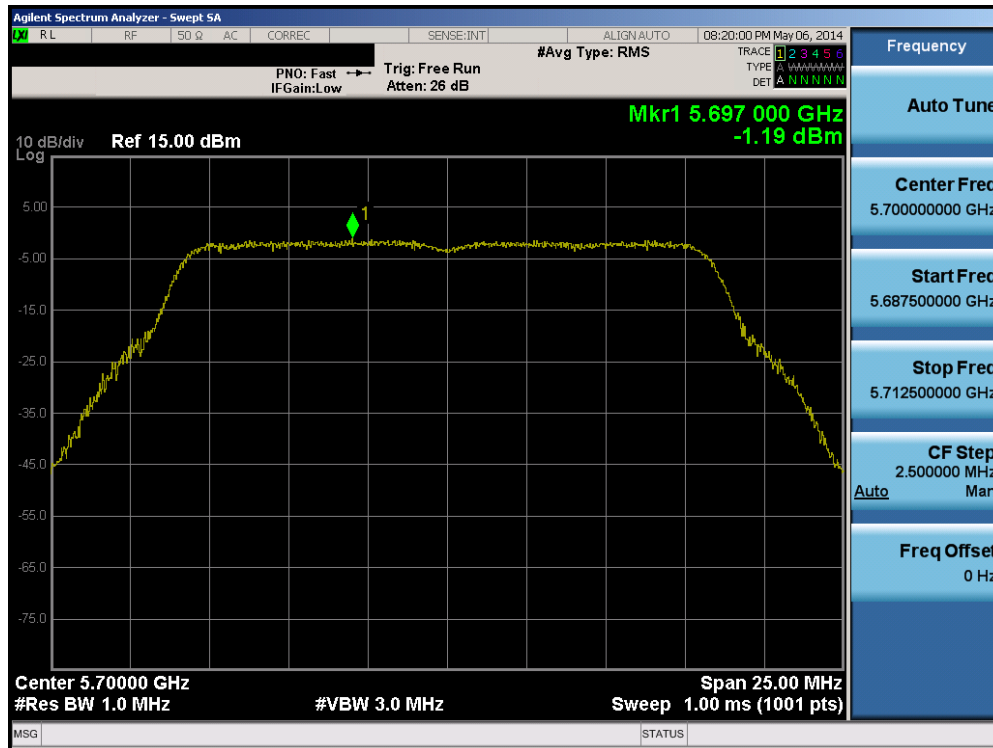


Plot 6-117. Peak Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 100)

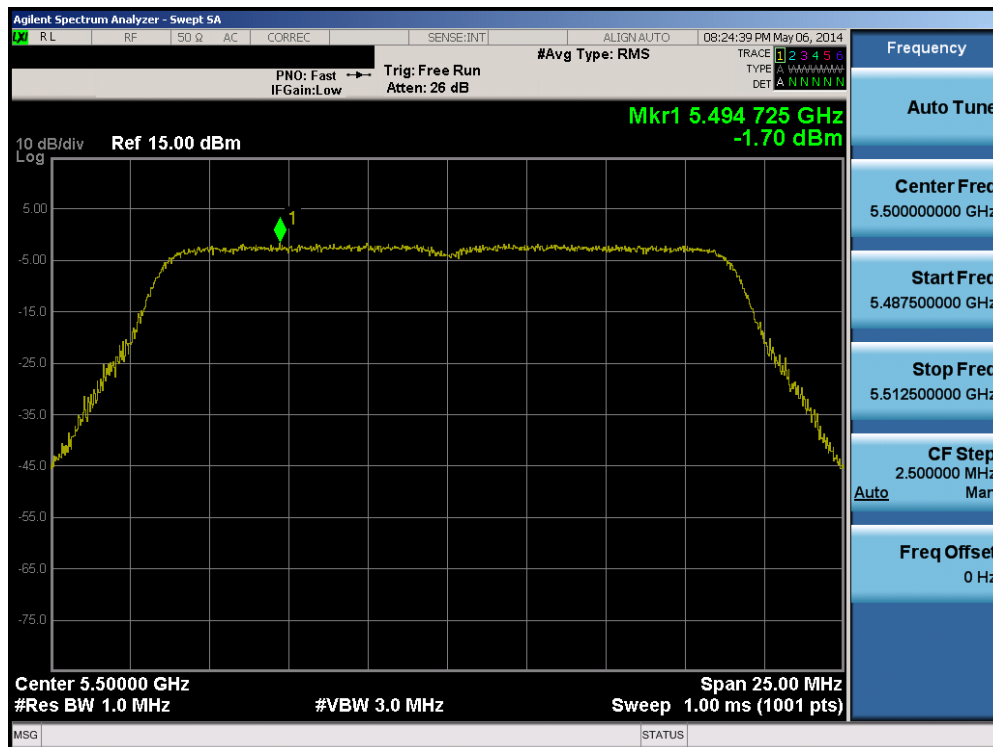


Plot 6-118. Peak Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 116)

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 84 of 184

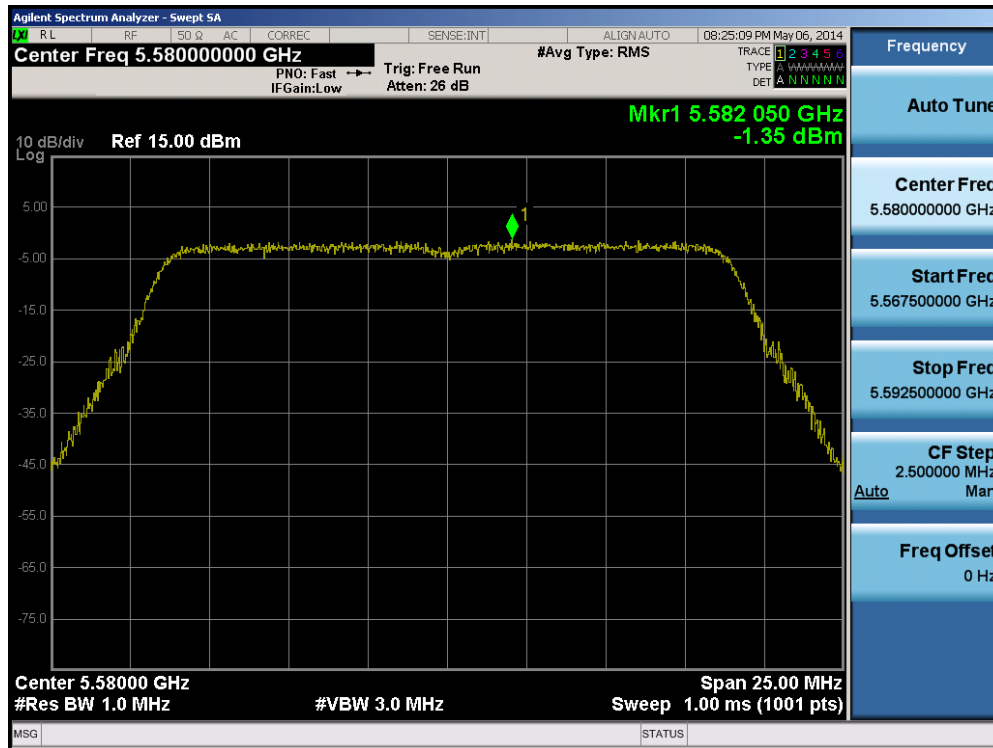


Plot 6-119. Peak Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 140)

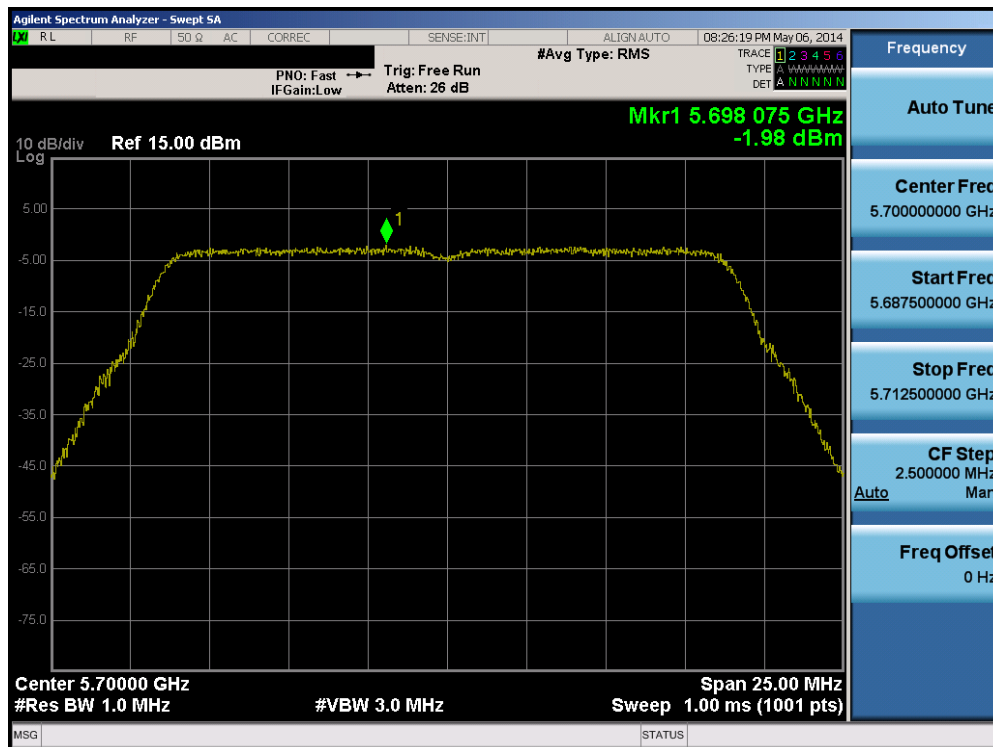


Plot 6-120. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 85 of 184

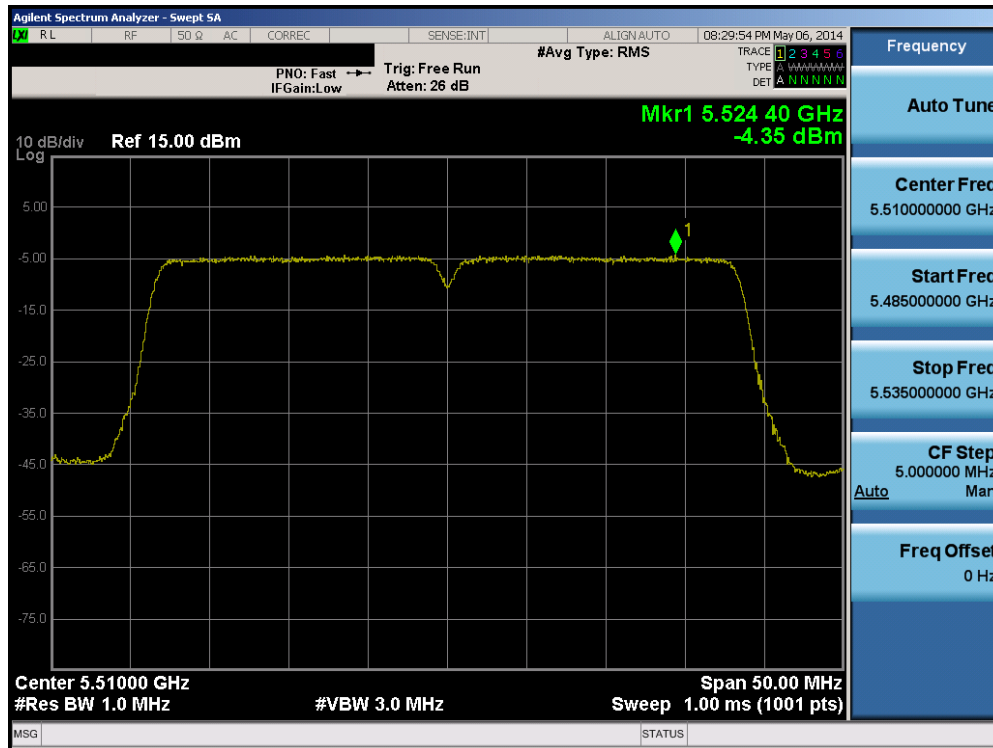


Plot 6-121. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 116)

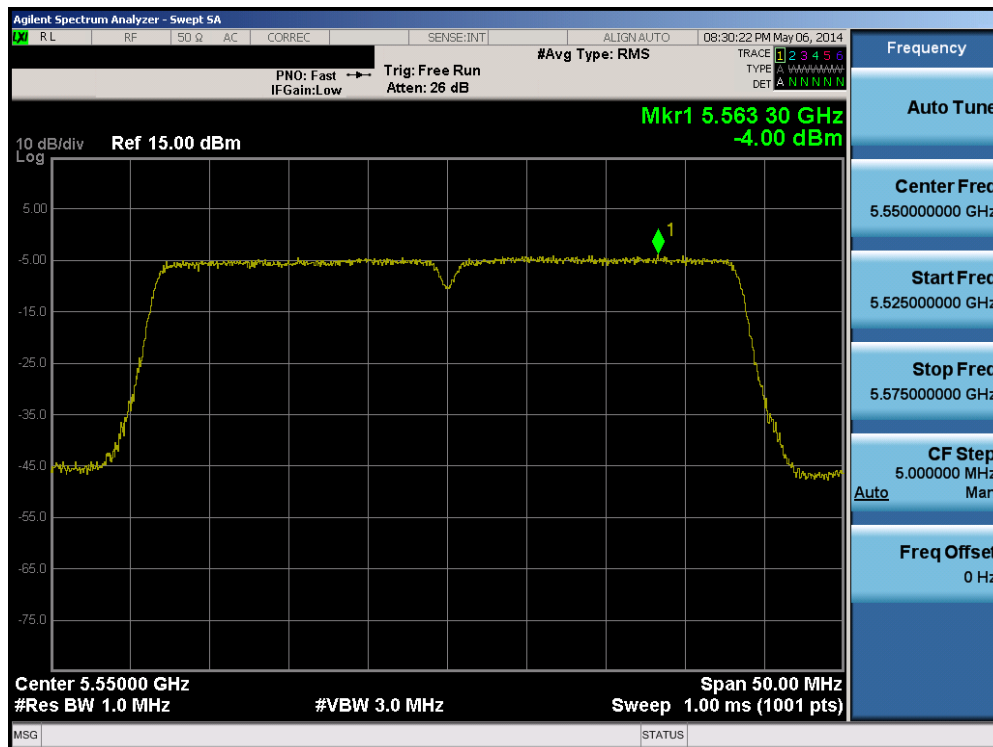


Plot 6-122. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 140)

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 86 of 184



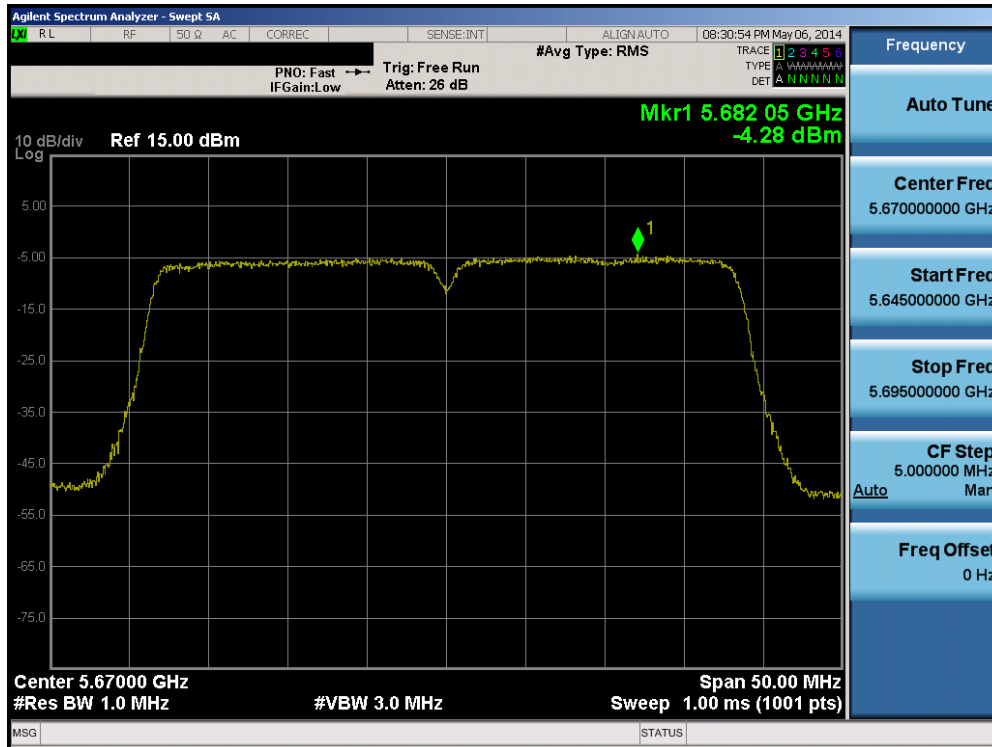
Plot 6-123. Peak Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)



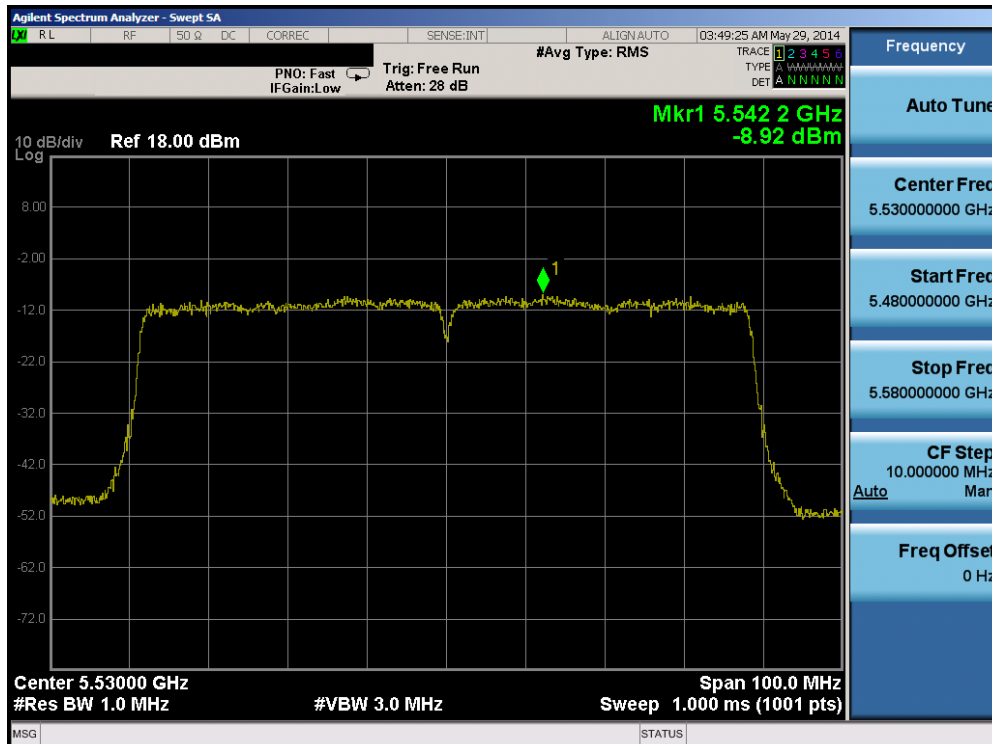
Plot 6-124. Peak Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 110)

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 87 of 184





Plot 6-125. Peak Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 134)



Plot 6-126. Peak Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 88 of 184



## Summed MIMO Power 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)	-0.79	-1.75	1.77	4.0	-2.23	Pass
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	-0.88	-1.69	1.75	4.0	-2.25	Pass
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	-0.76	-1.63	1.84	4.0	-2.16	Pass
	5190	38	n (40MHz)	13.5/15 (MCS0)	-4.40	-4.99	-1.67	4.0	-5.67	Pass
	5230	46	n (40MHz)	13.5/15 (MCS0)	-4.40	-4.78	-1.57	4.0	-5.57	Pass
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-11.13	-11.23	-8.17	4.0	-12.17	Pass
Band 2A	5260	52	n (20MHz)	6.5/7.2 (MCS0)	-0.75	-2.14	1.62	11.0	-9.38	Pass
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	-0.24	-1.76	2.08	11.0	-8.92	Pass
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	-0.55	-1.71	1.92	11.0	-9.08	Pass
	5270	54	n (40MHz)	13.5/15 (MCS0)	-4.10	-4.33	-1.20	11.0	-12.20	Pass
	5310	62	n (40MHz)	13.5/15 (MCS0)	-4.49	-4.10	-1.28	11.0	-12.28	Pass
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-10.35	-9.21	-6.73	11.0	-17.73	Pass
Band 2C	5500	100	n (20MHz)	6.5/7.2 (MCS0)	-0.81	-1.70	1.78	11.0	-9.22	Pass
	5580	116	n (20MHz)	6.5/7.2 (MCS0)	-1.09	-1.35	1.80	11.0	-9.20	Pass
	5700	140	n (20MHz)	6.5/7.2 (MCS0)	-1.02	-1.98	1.54	11.0	-9.46	Pass
	5510	102	n (40MHz)	13.5/15 (MCS0)	-4.82	-4.35	-1.57	11.0	-12.57	Pass
	5550	110	n (40MHz)	13.5/15 (MCS0)	-4.36	-4.00	-1.17	11.0	-12.17	Pass
	5670	134	n (40MHz)	13.5/15 (MCS0)	-4.84	-4.28	-1.54	11.0	-12.54	Pass
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-10.69	-8.92	-6.70	11.0	-17.70	Pass

**Table 6-20. MIMO Conducted Power Spectral Density Measurements**

**Note:**



As shown in the section above, the power spectral density at Antenna 1 and Antenna 2 were first measured separately. 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 found to be -0.79dBm for Antenna 1 and -1.75dBm for Antenna 2.

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

$$(-0.79\text{dBm} + -1.75\text{dBm}) = (0.834\text{mW} + 0.668\text{mW}) = 1.502\text{mW} = 1.77\text{dBm}$$

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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## 6.5 Peak Excursion Ratio – 802.11a/n/ac §15.407(a.6)

### Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle (>98%), at its maximum power control level, as defined in KDB 789033 v01r03, and at the appropriate frequencies. Method SA-1, as defined in KDB 789033 v01r03, was used to capture the average trace used to make the peak excursion measurement.

***The largest permissible difference between the modulation envelope (measured using a peak hold function) and the maximum power spectral density is 13 dBm/MHz.***

### Test Procedure Used

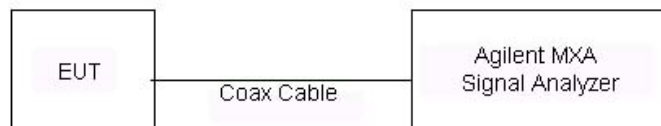
KDB 789033 v01r03 – Section G

### Test Settings

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire emission bandwidth of the signal
3. RBW = 1MHz
4. VBW = 3MHz
5. Detector = peak
6. Trace mode = max hold
7. Trace was allowed to stabilize
8. The peak search function of the spectrum analyzer was used to find the peak of the spectrum. This level was compared to the peak power density level found from the previous section to determine the peak excursion.

### Test Setup



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



**Figure 6-4. Test Instrument & Measurement Setup**

### Test Notes

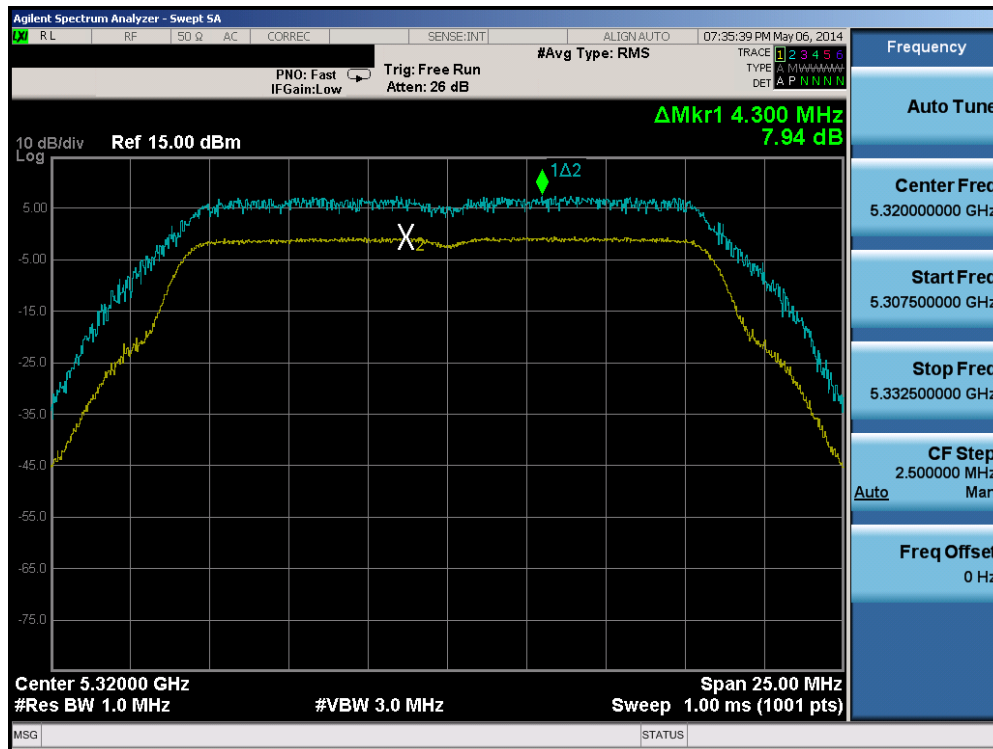
The peak excursion was investigated for all signal types, modulation types, channel bandwidths, and variations in signal parameters and the worst case data is shown below. Only the worst case modulation mode on a single channel among all bands is reported since that is sufficient to demonstrate compliance to the peak excursion requirement per KDB 789033 v01r03.

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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## Antenna-1 Peak Excursion Ratio – 802.11a/n/ac

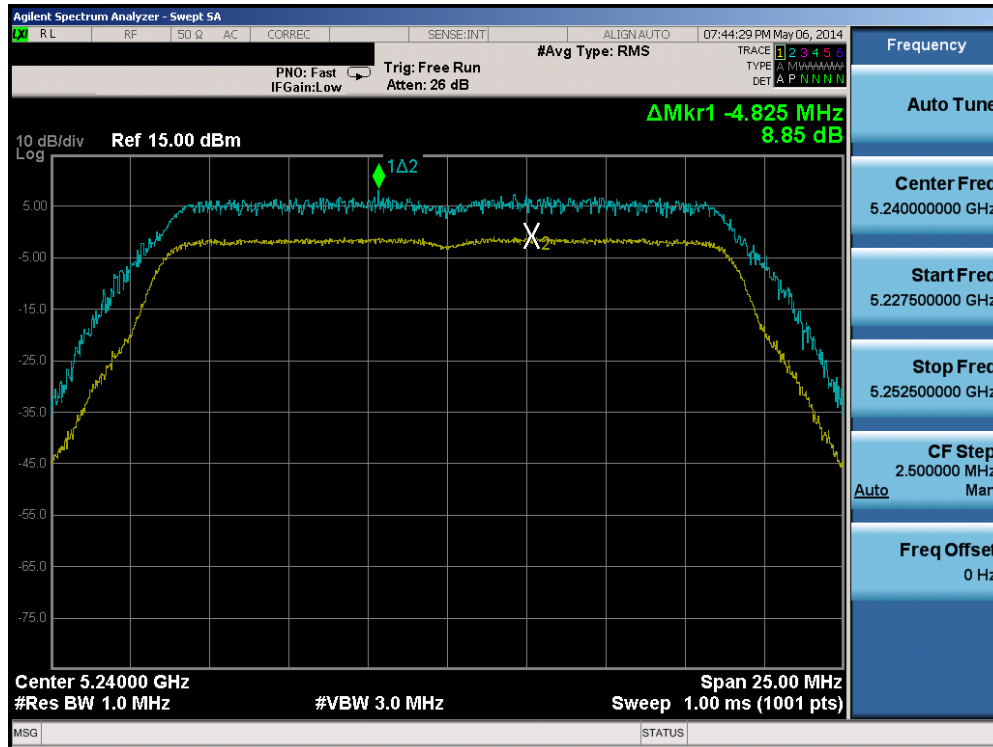
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Peak Excursion Ratio [dBm]	Max Permissible Peak Excursion Ratio [dBm/MHz]	Margin [dB]	Pass / Fail
5320	64	a	6	7.94	13.0	-5.06	Pass
5240	48	n (20MHz)	6.5/7.2 (MCS0)	8.85	13.0	-4.15	Pass
5310	62	n (40MHz)	13.5/15 (MCS0)	8.78	13.0	-4.22	Pass
5210	42	ac (80MHz)	58.5/65 (MCS0)	8.52	13.0	-4.48	Pass

Table 6-21. Conducted Peak Excursion Ratio Measurements

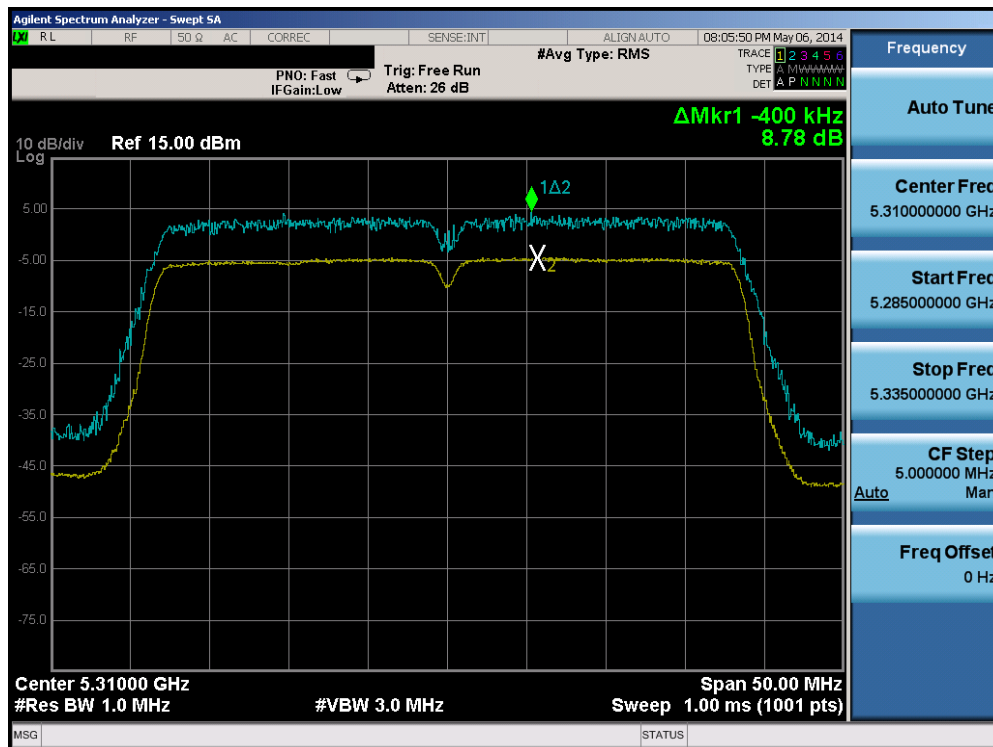


Plot 6-127. Peak Excursion Ratio Plot (802.11a (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 91 of 184

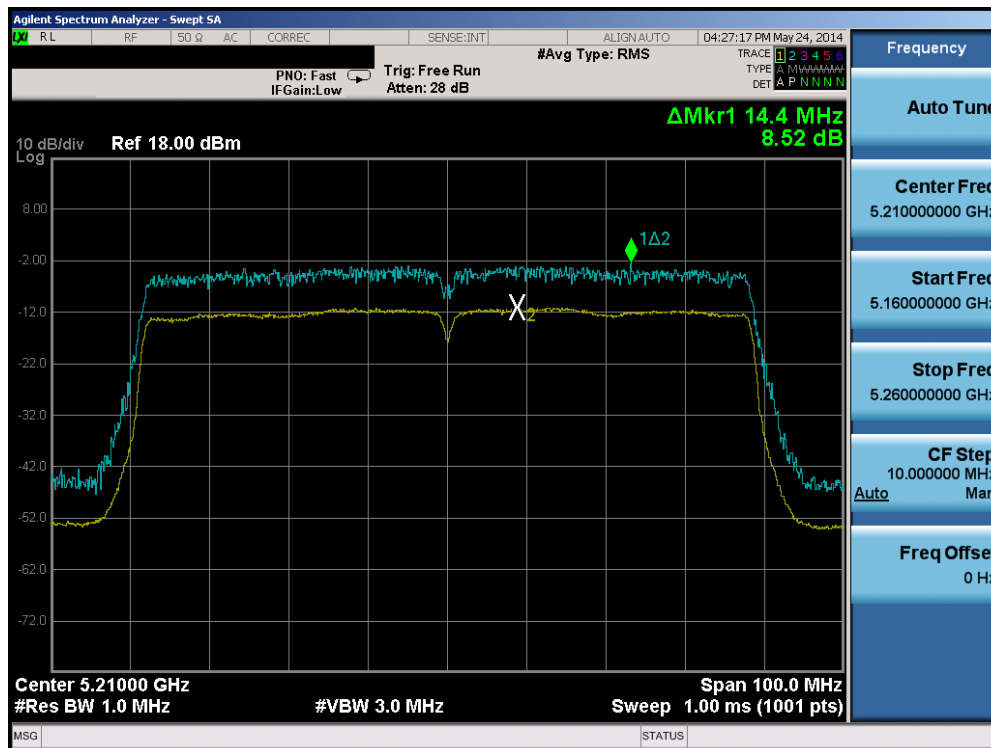


Plot 6-128. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 48)



Plot 6-129. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 92 of 184



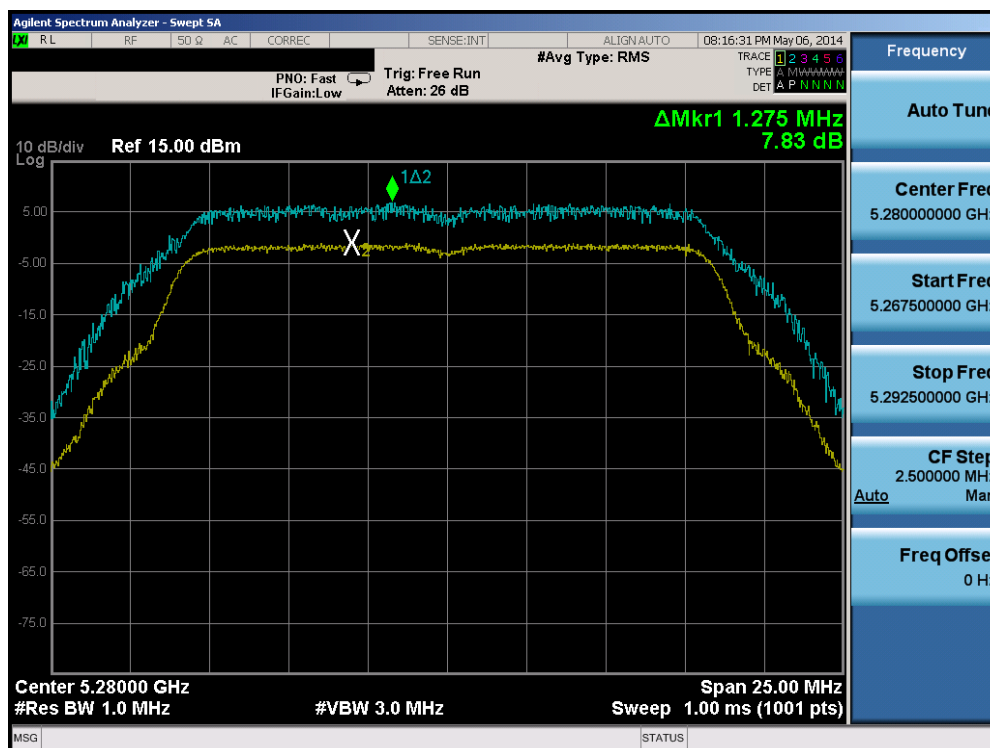
Plot 6-130. Peak Excursion Ratio Plot (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 93 of 184

## Antenna-2 Peak Excursion Ratio – 802.11a/n/ac

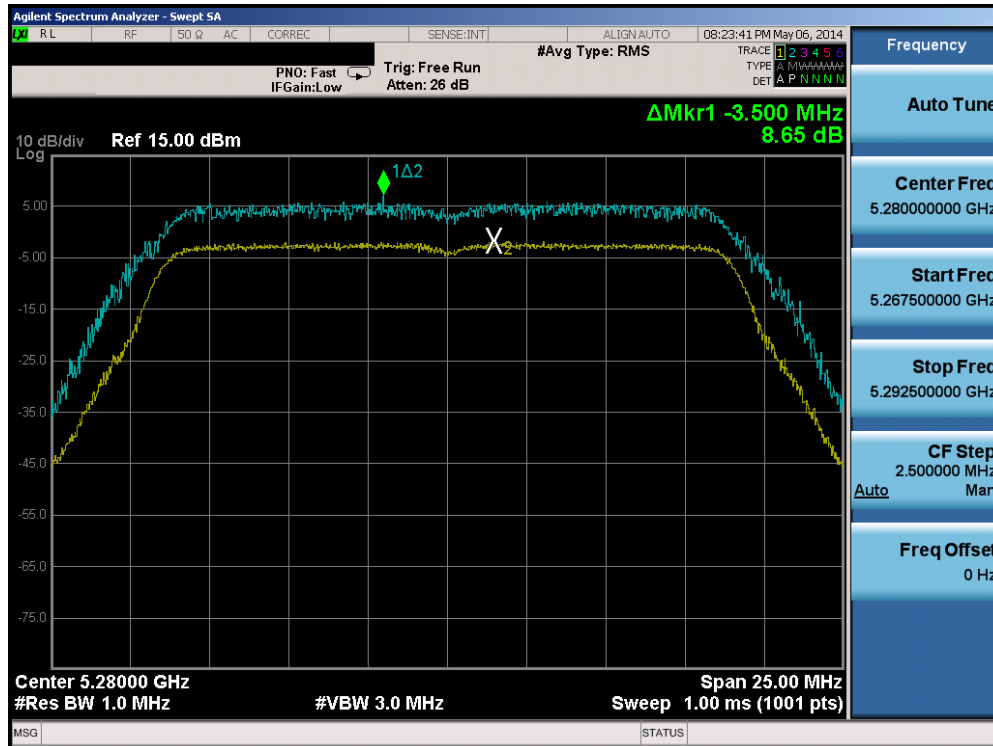
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Peak Excursion Ratio [dBm]	Max Permissible Peak Excursion Ratio [dBm/MHz]	Margin [dB]	Pass / Fail
5280	56	a	6	7.83	13.0	-5.17	Pass
5280	56	n (20MHz)	6.5/7.2 (MCS0)	8.65	13.0	-4.35	Pass
5270	54	n (40MHz)	13.5/15 (MCS0)	8.74	13.0	-4.26	Pass
5290	58	ac (80MHz)	29.3/32.5 (MCS0)	8.82	13.0	-4.18	Pass

Table 6-22. Conducted Peak Excursion Ratio Measurements

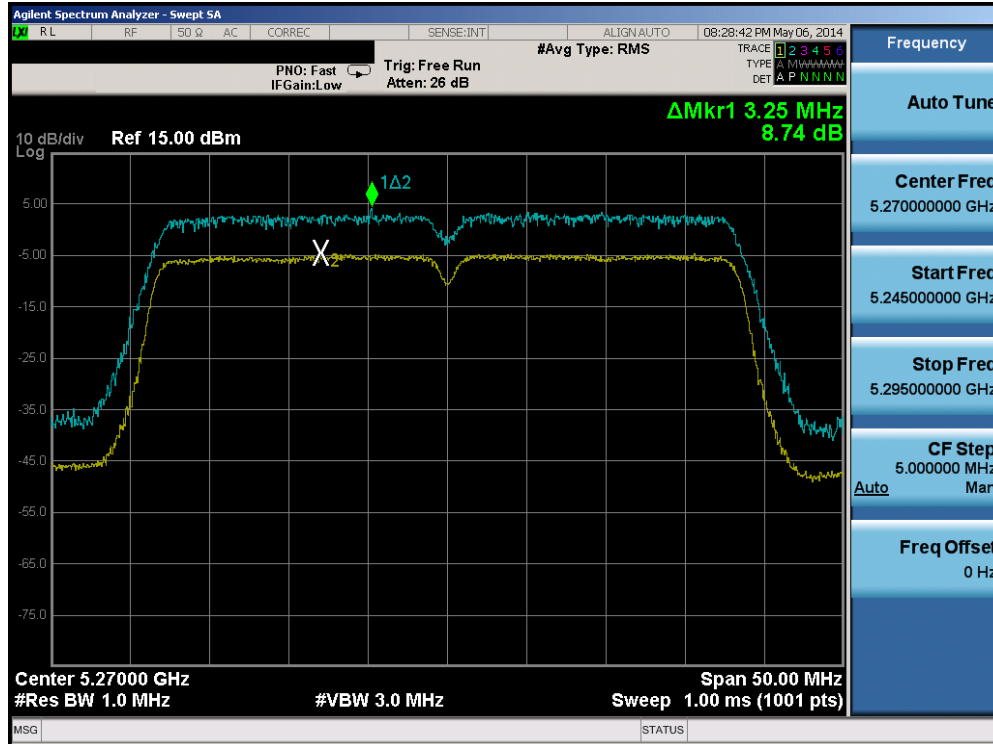


Plot 6-131. Peak Excursion Ratio Plot (802.11a (UNII Band 2A) – Ch. 56)

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
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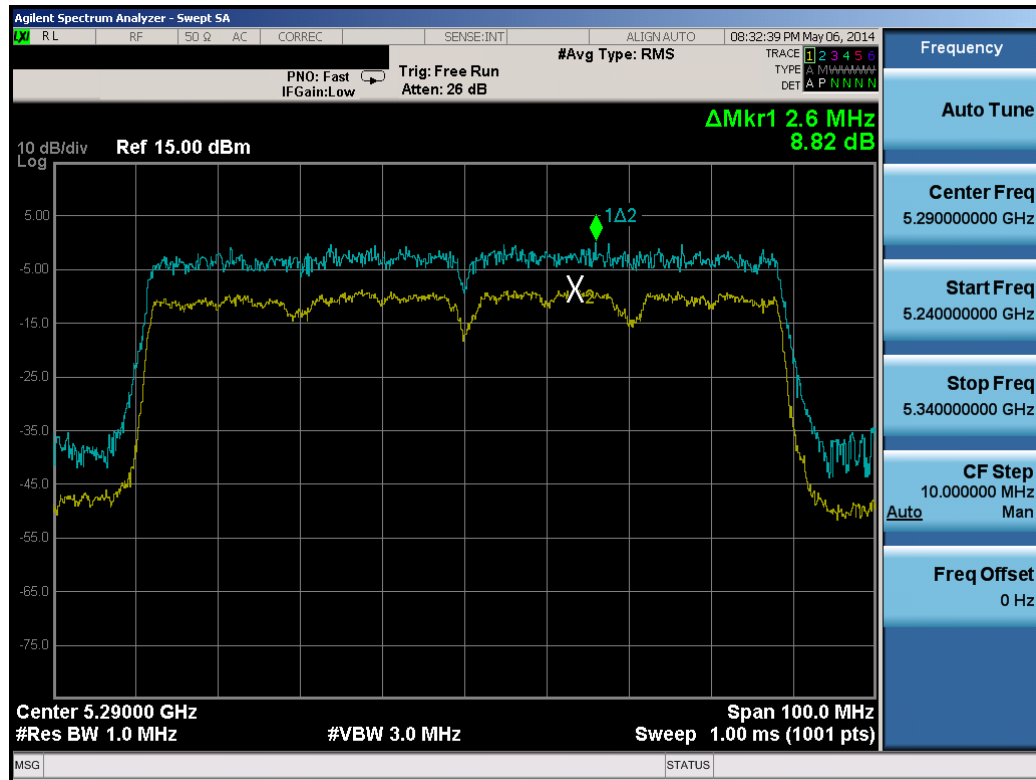
Plot 6-132. Peak Excursion Ratio Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)



Plot 6-133. Peak Excursion Ratio Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
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Plot 6-134. Peak Excursion Ratio Plot (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 96 of 184

## 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: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,179,999,991	-9	-0.00000017
100 %		- 30	5,180,000,012	12	0.00000023
100 %		- 20	5,180,000,004	4	0.00000008
100 %		- 10	5,179,999,991	-9	-0.00000017
100 %		0	5,179,999,982	-18	-0.00000035
100 %		+ 10	5,180,000,006	6	0.00000012
100 %		+ 20	5,180,000,017	17	0.00000033
100 %		+ 30	5,180,000,003	3	0.00000006
100 %		+ 40	5,180,000,019	19	0.00000037
100 %		+ 50	5,179,999,986	-14	-0.00000027
115 %	4.37	+ 20	5,180,000,001	1	0.00000002
BATT. ENDPOINT	3.50	+ 20	5,180,000,019	19	0.00000037

**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: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,260,000,002	2	0.00000004
100 %		- 30	5,259,999,987	-13	-0.00000025
100 %		- 20	5,259,999,990	-10	-0.00000019
100 %		- 10	5,259,999,985	-15	-0.00000029
100 %		0	5,260,000,016	16	0.00000030
100 %		+ 10	5,260,000,009	9	0.00000017
100 %		+ 20	5,260,000,001	1	0.00000002
100 %		+ 30	5,260,000,011	11	0.00000021
100 %		+ 40	5,260,000,018	18	0.00000034
100 %		+ 50	5,260,000,014	14	0.00000027
115 %	4.37	+ 20	5,260,000,005	5	0.00000010
BATT. ENDPOINT	3.50	+ 20	5,260,000,017	17	0.00000032

**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: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,500,000,000	0	0.00000000
100 %		- 30	5,500,000,007	7	0.00000013
100 %		- 20	5,499,999,990	-10	-0.00000018
100 %		- 10	5,500,000,019	19	0.00000035
100 %		0	5,499,999,998	-2	-0.00000004
100 %		+ 10	5,499,999,996	-4	-0.00000007
100 %		+ 20	5,499,999,992	-8	-0.00000015
100 %		+ 30	5,499,999,995	-5	-0.00000009
100 %		+ 40	5,500,000,006	6	0.00000011
100 %		+ 50	5,500,000,019	19	0.00000035
115 %		+ 20	5,500,000,001	1	0.00000002
BATT. ENDPOINT	4.37	+ 20	5,500,000,002	2	0.00000004

**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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## 6.7 Radiated Spurious Emission Measurements

**§15.407(b.1)(b.6) §15.205 §15.209**

### **Test Overview and Limit**

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle (>98%), at its maximum power control level, as defined in KDB 789033 v01r03, and at the appropriate frequencies. All channels, modes (e.g. 802.11a, 802.11n (20MHz BW), 802.11n (40MHz BW) and ac (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 6-26 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 6-26. Radiated Limits**



### **Test Procedures Used**

KDB 789033 v01r03 – Section H

### **Test Settings**

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

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

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### Peak Measurements above 1GHz

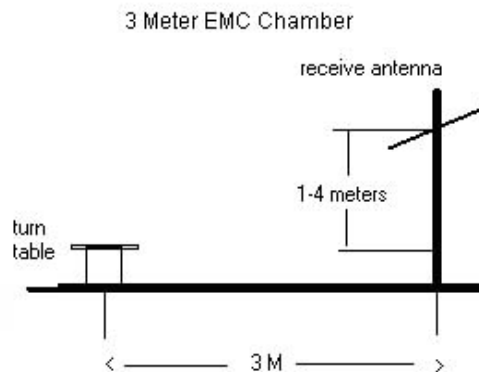
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

### Peak Measurements below 1GHz

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

### Test Setup

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



**Figure 6-5. Test Instrument & Measurement Setup**

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## Test Notes

1. All radiated spurious emissions levels were measured in a radiated test setup per the guidance of KDB 789033 v01r03 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 6-26.
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 dB $\mu$ V/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 68.2dB $\mu$ V/m.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. This unit was tested with its standard battery.
6. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak 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.



## Sample Calculations

### Determining Spurious Emissions Levels

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

### Radiated Band Edge Measurement Offset

- 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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## Antenna-1 Radiated Spurious Emission Measurements

**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	-93.26	Peak	H	H	46.86	60.60	68.20	-7.60
* 15540.00	-115.01	Average	H	H	50.97	42.96	53.98	-11.02
* 15540.00	-103.69	Peak	H	H	50.97	54.28	73.98	-19.70
* 20720.00	-107.49	Average	H	H	44.00	43.51	53.98	-10.47
* 20720.00	-95.74	Peak	H	H	44.00	55.26	73.98	-18.72
25900.00	-96.58	Peak	H	H	44.87	55.29	68.20	-12.91

**Table 6-27. 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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10400.00	-94.42	Peak	H	H	46.81	59.40	68.20	-8.80
* 15600.00	-115.01	Average	H	H	51.01	43.01	53.98	-10.97
* 15600.00	-104.23	Peak	H	H	51.01	53.79	73.98	-20.19
* 20800.00	-72.46	Average	H	H	43.99	43.24	53.98	-10.74
* 20800.00	-61.70	Peak	H	H	43.99	54.00	73.98	-19.98
26000.00	-60.55	Peak	H	H	44.97	55.96	68.20	-12.24

**Table 6-28. Radiated Measurements**

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	-92.54	Peak	H	H	46.73	61.19	68.20	-7.01
* 15720.00	-114.27	Average	H	H	49.90	42.63	53.98	-11.35
* 15720.00	-104.26	Peak	H	H	49.90	52.64	73.98	-21.34
* 20960.00	-72.25	Average	H	H	43.90	43.42	53.98	-10.56
* 20960.00	-62.23	Peak	H	H	43.90	53.44	73.98	-20.54
26200.00	-61.24	Peak	H	H	44.76	55.38	68.20	-12.82

**Table 6-29. 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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	-93.97	Peak	H	H	46.70	59.73	68.20	-8.47
* 15780.00	-115.42	Average	H	H	49.90	41.49	53.98	-12.49
* 15780.00	-104.95	Peak	H	H	49.90	51.96	73.98	-22.02
* 21040.00	-98.96	Average	H	H	43.84	51.88	53.98	-2.10
* 21040.00	-108.55	Peak	H	H	43.84	42.29	73.98	-31.69
26300.00	-95.13	Peak	H	H	44.78	56.65	68.20	-11.55

**Table 6-30. Radiated Measurements**

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	-93.90	Peak	H	H	46.84	59.94	68.20	-8.26
* 15840.00	-115.44	Average	H	H	50.07	41.62	53.98	-12.36
* 15840.00	-104.75	Peak	H	H	50.07	52.31	73.98	-21.67
* 21120.00	-109.11	Average	H	H	43.74	41.63	53.98	-12.35
* 21120.00	-98.46	Peak	H	H	43.74	52.28	73.98	-21.70
26400.00	-94.26	Peak	H	H	44.72	57.45	68.20	-10.75

**Table 6-31. 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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	-103.73	Average	H	H	47.16	50.43	53.98	-3.55
* 10640.00	-91.75	Peak	H	H	47.16	62.41	73.98	-11.57
* 15960.00	-115.80	Average	H	H	49.71	40.91	53.98	-13.07
* 15960.00	-104.09	Peak	H	H	49.71	52.62	73.98	-21.36
* 21280.00	-110.00	Average	H	H	43.64	40.64	53.98	-13.34
* 21280.00	-98.67	Peak	H	H	43.64	51.97	73.98	-22.01
26600.00	-104.06	Peak	H	H	47.28	50.22	68.20	-17.98

**Table 6-32. Radiated Measurements**

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	-111.62	Average	H	H	47.11	42.49	53.98	-11.49
* 11000.00	-101.25	Peak	H	H	47.11	52.86	73.98	-21.12
16500.00	-100.30	Peak	H	H	51.60	58.30	68.20	-9.90
22000.00	-97.71	Peak	H	H	43.92	53.21	68.20	-14.99
27500.00	-105.16	Peak	H	H	48.51	50.35	68.20	-17.85

**Table 6-33. 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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11160.00	-111.27	Average	H	H	47.43	43.17	53.98	-10.81
* 11160.00	-99.73	Peak	H	H	47.43	54.71	73.98	-19.27
16740.00	-100.10	Peak	H	H	52.71	59.61	68.20	-8.59
* 22320.00	-107.88	Average	H	H	44.40	43.52	53.98	-10.46
* 22320.00	-99.14	Peak	H	H	44.40	52.26	73.98	-21.72
27900.00	-104.47	Peak	H	H	48.13	50.66	68.20	-17.54



**Table 6-34. Radiated Measurements**

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5700MHz  
 Channel: 140

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11400.00	-112.08	Average	H	H	47.68	42.61	53.98	-11.37
*	11400.00	-99.51	Peak	H	H	47.68	55.18	73.98	-18.80
	17100.00	-99.31	Peak	H	H	54.03	61.72	68.20	-6.48
*	22800.00	-110.16	Average	H	H	44.39	41.23	53.98	-12.75
*	22800.00	-99.74	Peak	H	H	44.39	51.65	73.98	-22.33
	28500.00	-105.25	Peak	H	H	48.03	49.78	68.20	-18.42

**Table 6-35. Radiated Measurements**

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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## Antenna-2 Radiated Spurious Emission Measurements

**§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]**

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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	-89.68	Peak	H	H2	46.86	64.18	68.20	-4.02
* 15540.00	-114.82	Average	H	H2	50.97	43.15	53.98	-10.83
* 15540.00	-103.50	Peak	H	H2	50.97	54.47	73.98	-19.51
* 20720.00	-107.76	Average	H	H2	44.00	43.24	53.98	-10.74
* 20720.00	-96.90	Peak	H	H2	44.00	54.10	73.98	-19.88
25900.00	-95.99	Peak	H	H2	44.87	55.88	68.20	-12.32

**Table 6-36. 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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10400.00	-90.14	Peak	H	H2	46.81	63.68	68.20	-4.52
* 15600.00	-115.02	Average	H	H2	51.01	43.00	53.98	-10.98
* 15600.00	-103.88	Peak	H	H2	51.01	54.14	73.98	-19.84
* 20800.00	-107.58	Average	H	H2	43.99	43.41	53.98	-10.57
* 20800.00	-96.45	Peak	H	H2	43.99	54.54	73.98	-19.44
26000.00	-97.30	Peak	H	H2	44.97	54.67	68.20	-13.53

**Table 6-37. Radiated Measurements**

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	-90.59	Peak	H	H2	46.73	63.14	68.20	-5.06
* 15720.00	-114.21	Average	H	H2	49.90	42.69	53.98	-11.29
* 15720.00	-104.05	Peak	H	H2	49.90	52.85	73.98	-21.13
* 20960.00	-108.79	Average	H	H2	43.90	42.11	53.98	-11.87
* 20960.00	-96.75	Peak	H	H2	43.90	54.15	73.98	-19.83
26200.00	-95.72	Peak	H	H2	44.76	56.04	68.20	-12.16

**Table 6-38. 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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	-93.85	Peak	H	H2	46.70	59.85	68.20	-8.35
* 15780.00	-111.83	Average	H	H2	49.90	45.08	53.98	-8.90
* 15780.00	-99.82	Peak	H	H2	49.90	57.09	73.98	-16.89
* 21040.00	-109.33	Average	H	H2	43.84	41.51	53.98	-12.47
* 21040.00	-98.83	Peak	H	H2	43.84	52.01	73.98	-21.97
26300.00	-94.92	Peak	H	H2	44.78	56.86	68.20	-11.34

**Table 6-39. Radiated Measurements**

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	-88.68	Peak	H	H2	46.84	65.16	68.20	-3.04
* 15840.00	-112.47	Average	H	H2	50.07	44.59	53.98	-9.39
* 15840.00	-100.73	Peak	H	H2	50.07	56.33	73.98	-17.65
* 21120.00	-109.53	Average	H	H2	43.74	41.21	53.98	-12.77
* 21120.00	-99.43	Peak	H	H2	43.74	51.31	73.98	-22.67
26400.00	-92.24	Peak	H	H2	44.72	59.47	68.20	-8.73

**Table 6-40. 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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	-100.35	Average	H	H2	47.16	53.81	53.98	-0.17
* 10640.00	-88.69	Peak	H	H2	47.16	65.47	73.98	-8.51
* 15960.00	-111.81	Average	H	H2	49.71	44.90	53.98	-9.08
* 15960.00	-99.14	Peak	H	H2	49.71	57.57	73.98	-16.41
* 21280.00	-109.69	Average	H	H2	43.64	40.95	53.98	-13.03
* 21280.00	-99.47	Peak	H	H2	43.64	51.17	73.98	-22.81
26600.00	-103.99	Peak	H	H2	47.28	50.29	68.20	-17.91

**Table 6-41. Radiated Measurements**

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 110 of 184

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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	-107.35	Average	H	H2	47.11	46.76	53.98	-7.22
* 11000.00	-95.27	Peak	H	H2	47.11	58.84	73.98	-15.14
16500.00	-100.14	Peak	H	H2	51.60	58.46	68.20	-9.74
22000.00	-99.01	Peak	H	H2	43.92	51.91	68.20	-16.29
27500.00	-106.39	Peak	H	H2	48.51	49.12	68.20	-19.08

**Table 6-42. 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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11160.00	-108.77	Average	H	H2	47.43	45.67	53.98	-8.31
* 11160.00	-96.27	Peak	H	H2	47.43	58.17	73.98	-15.81
16740.00	-100.89	Peak	H	H2	52.71	58.82	68.20	-9.38
* 22320.00	-109.06	Average	H	H2	44.40	42.34	53.98	-11.64
* 22320.00	-100.00	Peak	H	H2	44.40	51.40	73.98	-22.58
27900.00	-104.57	Peak	H	H2	48.13	50.56	68.20	-17.64

**Table 6-43. Radiated Measurements**

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 111 of 184

Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5700MHz  
 Channel: 140

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11400.00	-108.47	Average	H	H2	47.68	46.22	53.98	-7.76
*	11400.00	-95.65	Peak	H	H2	47.68	59.04	73.98	-14.94
	17100.00	-99.50	Peak	H	H2	54.03	61.53	68.20	-6.67
*	22800.00	-108.67	Average	H	H2	44.39	42.72	53.98	-11.26
*	22800.00	-99.37	Peak	H	H2	44.39	52.02	73.98	-21.96
	28500.00	-106.29	Peak	H	H2	48.03	48.74	68.20	-19.46

**Table 6-44. Radiated Measurements**

## MIMO Radiated Spurious Emission Measurements

§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	-93.45	Peak	H	H	46.86	60.41	68.20	-7.79
* 15540.00	-114.87	Average	H	H	50.97	43.10	53.98	-10.88
* 15540.00	-103.54	Peak	H	H	50.97	54.43	73.98	-19.55
* 20720.00	-106.99	Average	H	H	44.00	44.01	53.98	-9.97
* 20720.00	-96.37	Peak	H	H	44.00	54.63	73.98	-19.35
25900.00	-98.78	Peak	H	H	44.87	53.09	68.20	-15.11

**Table 6-45. 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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10400.00	-94.41	Peak	H	H	46.81	59.41	68.20	-8.79
* 15600.00	-115.00	Average	H	H	51.01	43.02	53.98	-10.96
* 15600.00	-104.41	Peak	H	H	51.01	53.61	73.98	-20.37
* 20800.00	-108.15	Average	H	H	43.99	42.84	53.98	-11.14
* 20800.00	-98.07	Peak	H	H	43.99	52.92	73.98	-21.06
26000.00	-97.85	Peak	H	H	44.97	54.12	68.20	-14.08

**Table 6-46. Radiated Measurements**

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 113 of 184

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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	-93.09	Peak	H	H	46.73	60.64	68.20	-7.56
* 15720.00	-115.24	Average	H	H	49.90	41.66	53.98	-12.32
* 15720.00	-104.59	Peak	H	H	49.90	52.31	73.98	-21.67
* 20960.00	-108.55	Average	H	H	43.90	42.35	53.98	-11.63
* 20960.00	-98.28	Peak	H	H	43.90	52.62	73.98	-21.36
26200.00	-96.67	Peak	H	H	44.76	55.09	68.20	-13.11

**Table 6-47. 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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	-96.21	Peak	H	H	46.70	57.49	68.20	-10.71
* 15780.00	-111.83	Average	H	H	49.90	45.08	53.98	-8.90
* 15780.00	-99.32	Peak	H	H	49.90	57.59	73.98	-16.39
* 21040.00	-109.36	Average	H	H	43.84	41.48	53.98	-12.50
* 21040.00	-97.23	Peak	H	H	43.84	53.61	73.98	-20.37
26300.00	-95.21	Peak	H	H	44.78	56.57	68.20	-11.63

**Table 6-48. Radiated Measurements**

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 114 of 184

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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	-94.13	Peak	H	H	46.84	59.71	68.20	-8.49
* 15840.00	-111.56	Average	H	H	50.07	45.50	53.98	-8.48
* 15840.00	-98.59	Peak	H	H	50.07	58.47	73.98	-15.51
* 21120.00	-109.32	Average	H	H	43.74	41.42	53.98	-12.56
* 21120.00	-99.31	Peak	H	H	43.74	51.43	73.98	-22.55
26400.00	-94.53	Peak	H	H	44.72	57.18	68.20	-11.02

**Table 6-49. Radiated Measurements**

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	-106.49	Average	H	H	47.16	47.67	53.98	-6.31
* 10640.00	-95.17	Peak	H	H	47.16	58.99	73.98	-14.99
* 15960.00	-109.91	Average	H	H	49.71	46.80	53.98	-7.18
* 15960.00	-97.76	Peak	H	H	49.71	58.95	73.98	-15.03
* 21280.00	-109.83	Average	H	H	43.64	40.81	53.98	-13.17
* 21280.00	-98.29	Peak	H	H	43.64	52.35	73.98	-21.63
26600.00	-104.64	Peak	H	H	47.28	49.64	68.20	-18.56

**Table 6-50. Radiated Measurements**

FCC ID: A3LSMT805M		FCC PL 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 115 of 184

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]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	-105.39	Average	H	H	47.11	48.72	53.98	-5.26
* 11000.00	-92.92	Peak	H	H	47.11	61.19	73.98	-12.79
16500.00	-100.50	Peak	H	H	51.60	58.10	68.20	-10.10
22000.00	-98.40	Peak	H	H	43.92	52.52	68.20	-15.68
27500.00	-105.32	Peak	H	H	48.51	50.19	68.20	-18.01

Table 6-51. Radiated Measurements

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11160.00	-105.80	Average	H	H	47.43	48.64	53.98	-5.34
* 11160.00	-93.31	Peak	H	H	47.43	61.13	73.98	-12.85
16740.00	-100.42	Peak	H	H	52.71	59.29	68.20	-8.91
* 22320.00	-73.83	Average	H	H	44.40	42.05	53.98	-11.93
* 22320.00	-64.32	Peak	H	H	44.40	51.56	73.98	-22.42
27900.00	-46.56	Peak	H	H	48.13	50.67	68.20	-17.53

Table 6-52. Radiated Measurements


FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)					Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet				Page 116 of 184	



Worst Case Mode: 802.11a  
 Worst Case Transfer Rate: 6 Mbps  
 Distance of Measurements: 1 & 3 Meters  
 Operating Frequency: 5700MHz  
 Channel: 140

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11400.00	-111.51	Average	H	H	47.68	43.18	53.98	-10.80
*	11400.00	-93.47	Peak	H	H	47.68	61.22	73.98	-12.76
	17100.00	-104.77	Peak	H	H	54.03	56.26	68.20	-11.94
*	22800.00	-109.26	Average	H	H	44.39	42.13	53.98	-11.85
*	22800.00	-99.91	Peak	H	H	44.39	51.48	73.98	-22.50
	28500.00	-105.97	Peak	H	H	48.03	49.06	68.20	-19.14

**Table 6-53. Radiated Measurements**

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 117 of 184

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

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

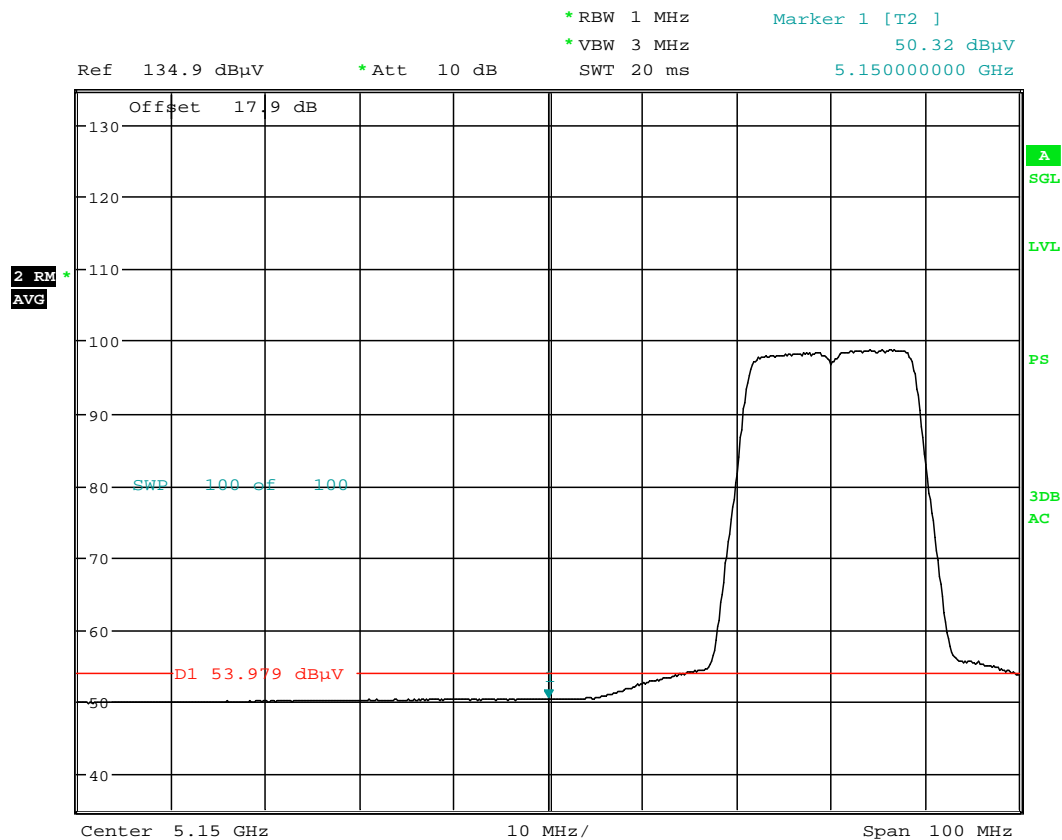
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36

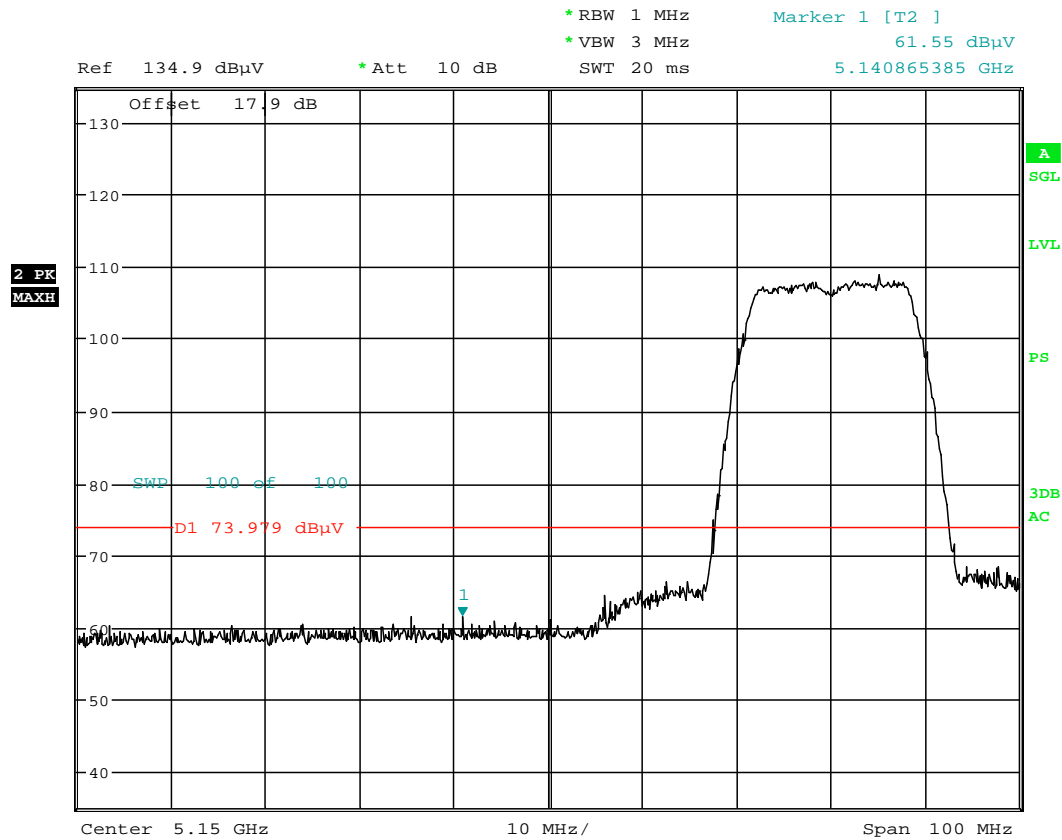


Date: 8.MAY.2014 23:44:59

**Plot 6-135. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 118 of 184

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



Date: 8.MAY.2014 23:45:32

**Plot 6-136. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 119 of 184

## Radiated Band Edge Measurements (20MHz BW)

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

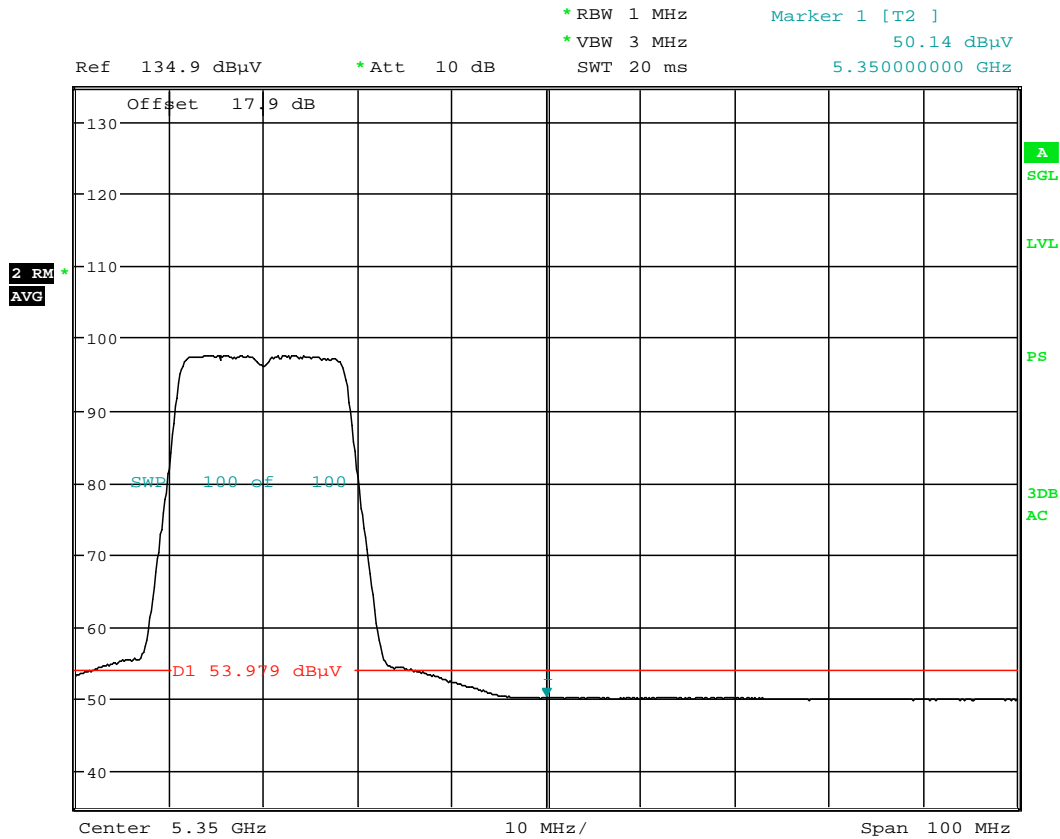
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64

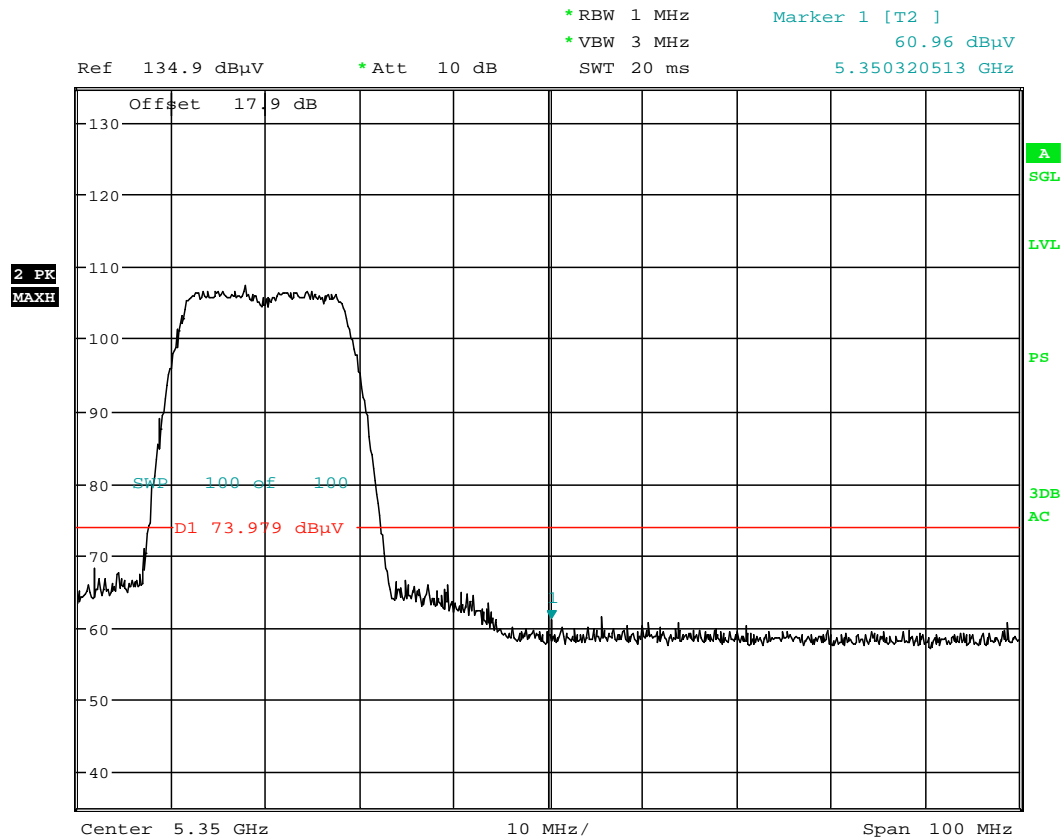


Date: 9.MAY.2014 00:13:03

**Plot 6-137. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**



FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 120 of 184

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



Date: 9.MAY.2014 00:13:36

**Plot 6-138. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMT805M	 <b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT</b> <b>(CERTIFICATION)</b> 		Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet	Page 121 of 184

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

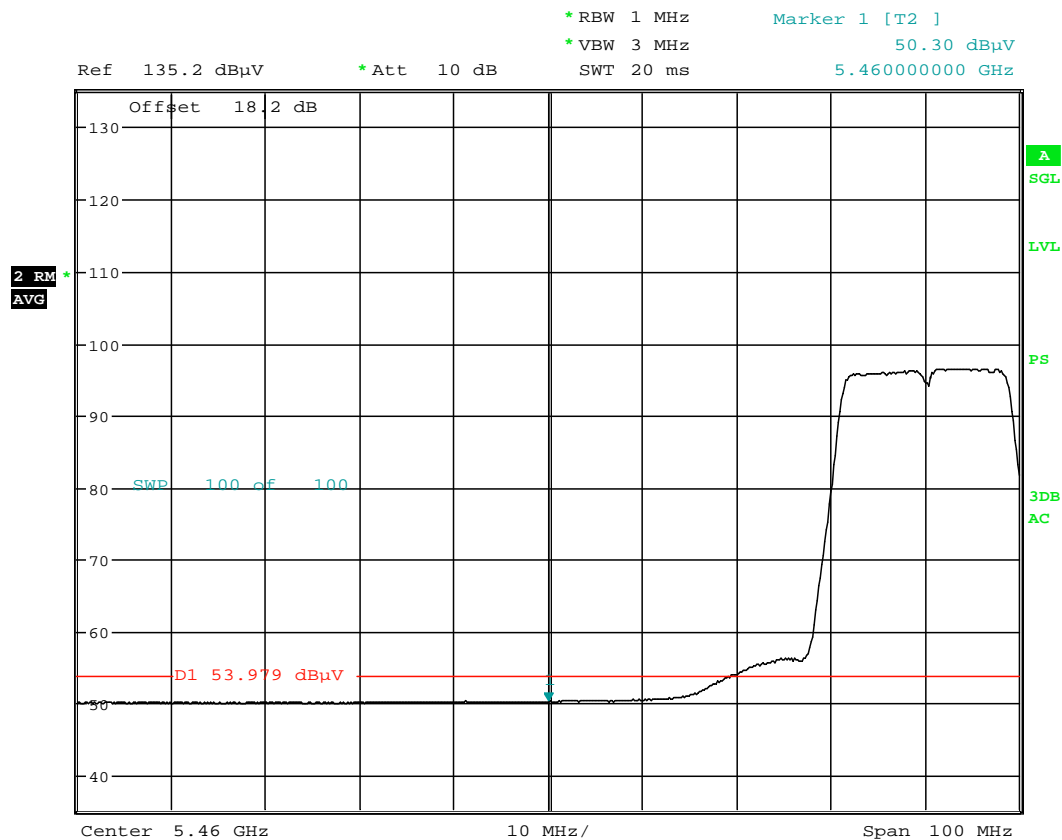
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

Channel: 100

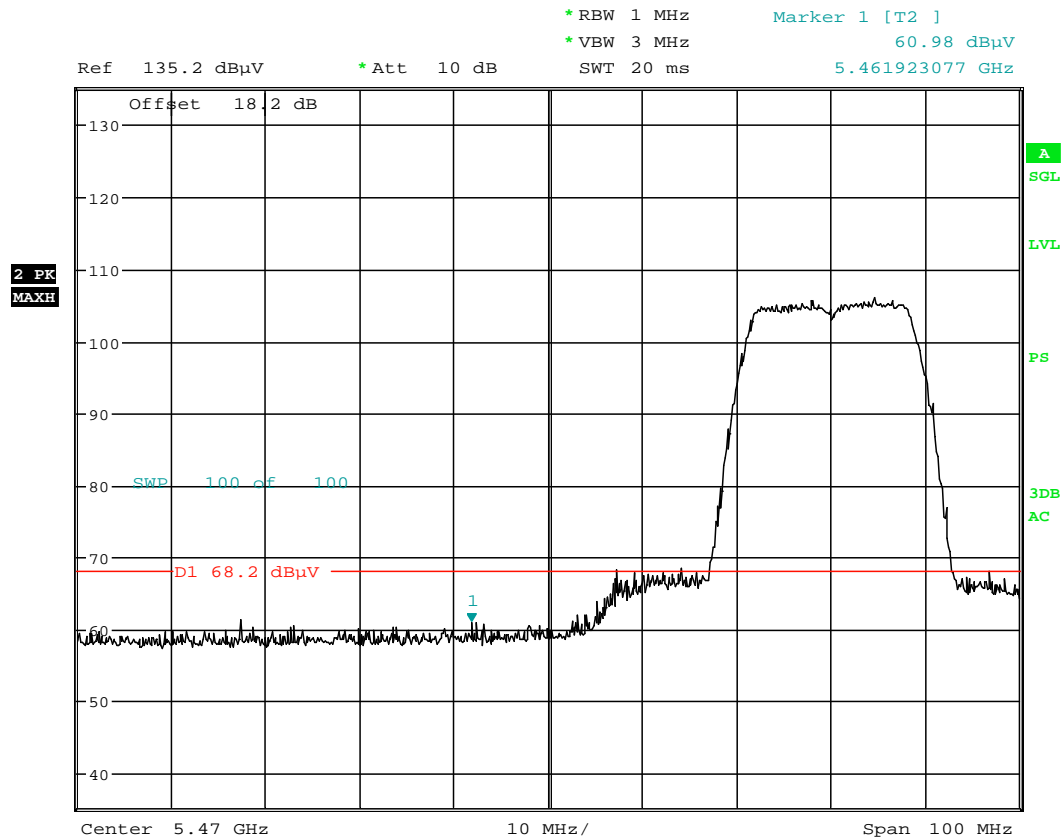


Date: 9.MAY.2014 00:27:36

**Plot 6-139. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 122 of 184

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



Date: 9.MAY.2014 00:33:32

**Plot 6-140. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 123 of 184

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

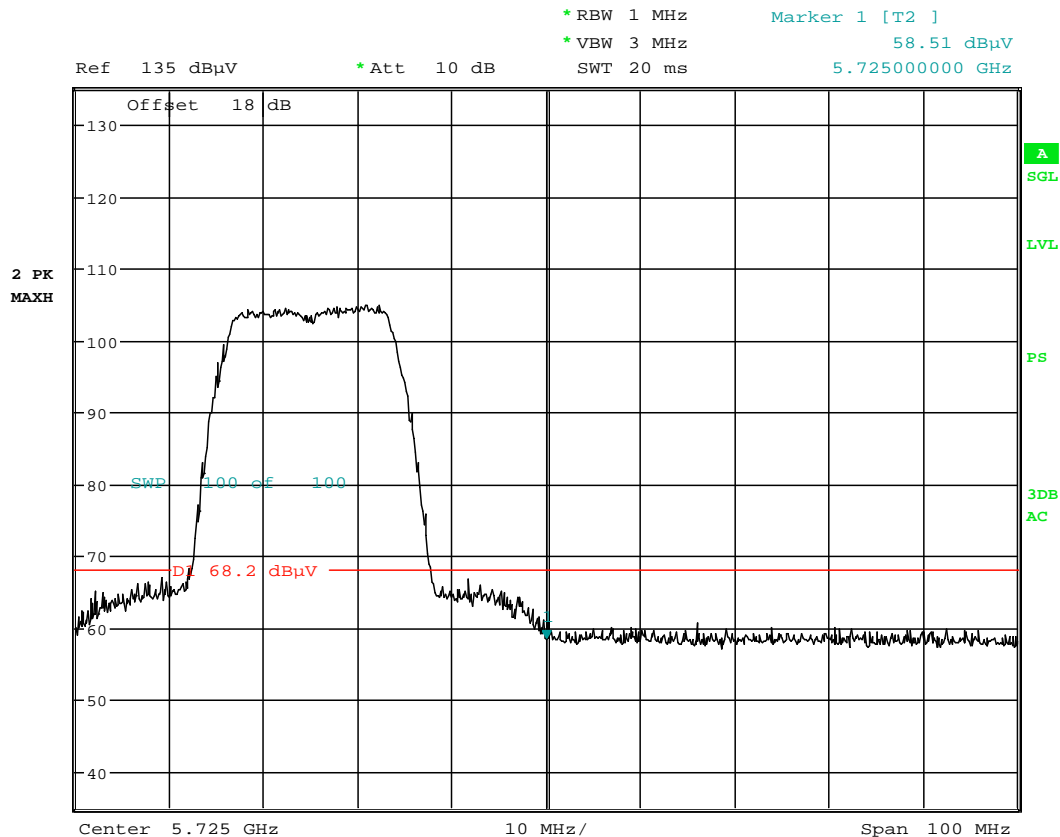
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5700MHz

Channel: 140



Date: 12.MAY.2014 23:01:13

**Plot 6-141. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 124 of 184



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

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

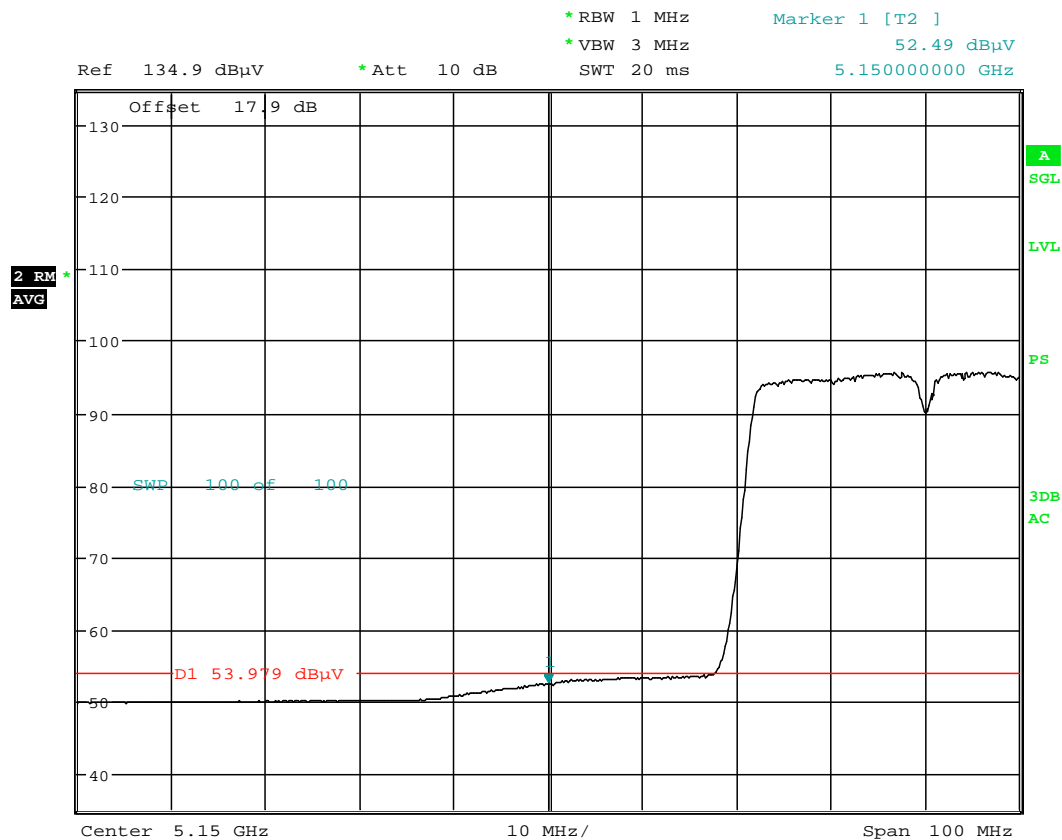
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38

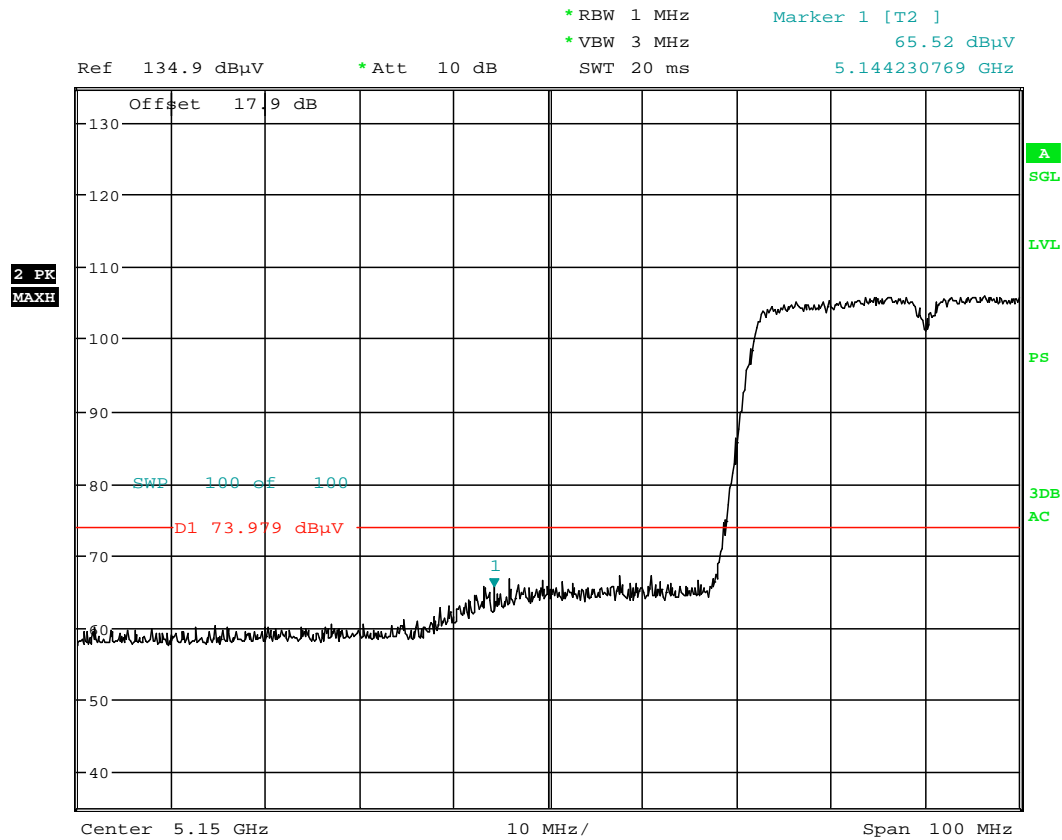


Date: 8.MAY.2014 23:55:57

**Plot 6-142. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 125 of 184

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



Date: 8.MAY.2014 23:50:34

**Plot 6-143. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 126 of 184

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

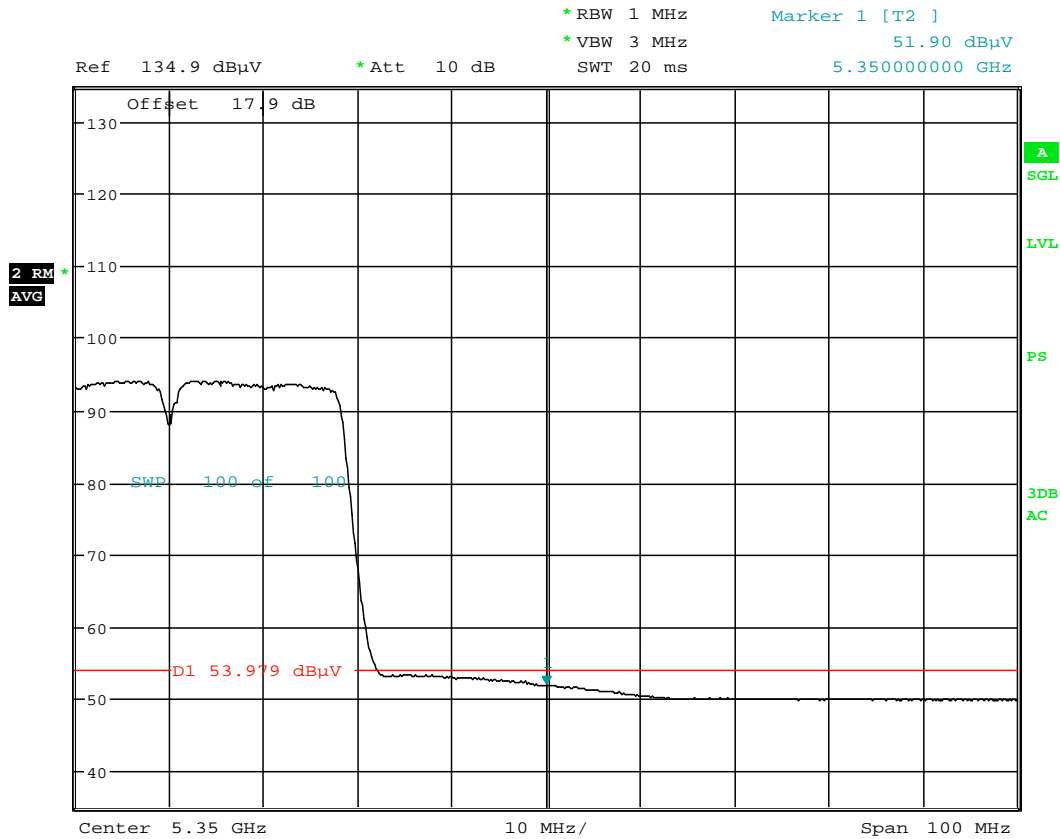
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62

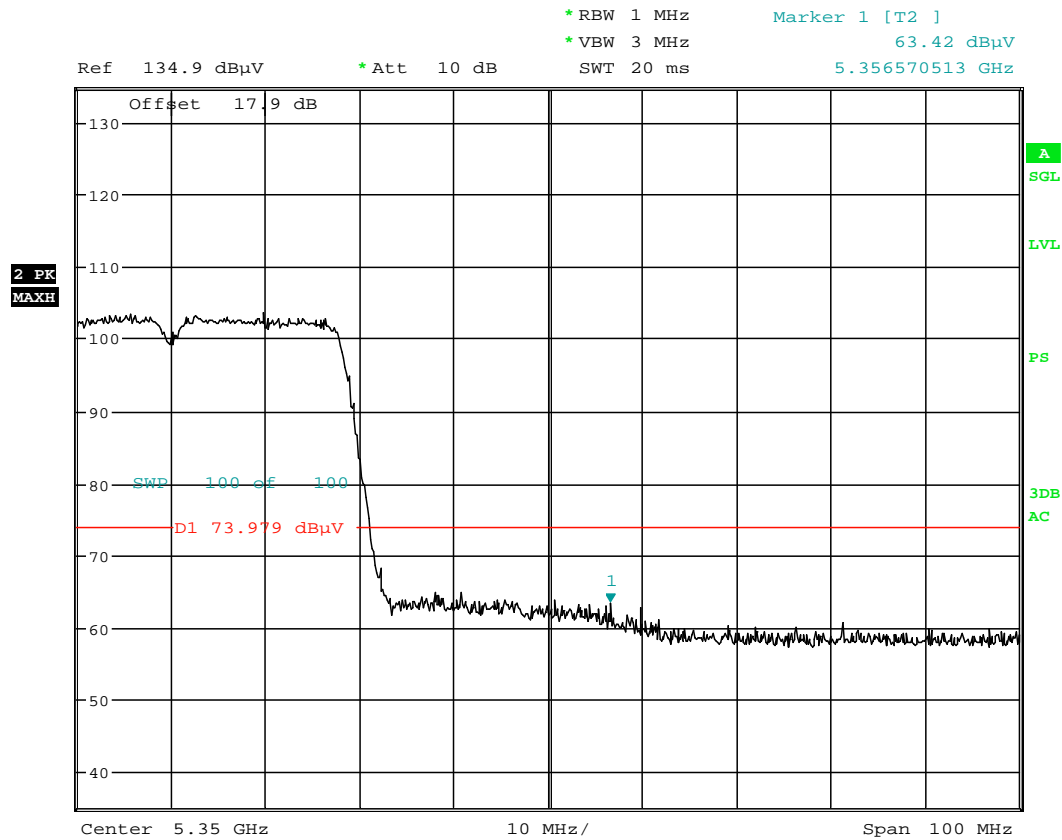


Date: 9.MAY.2014 00:16:07

**Plot 6-144. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**



FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 127 of 184

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



Date: 9.MAY.2014 00:15:32

**Plot 6-145. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMT805M	 <b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT</b> <b>(CERTIFICATION)</b> 		Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet	Page 128 of 184

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

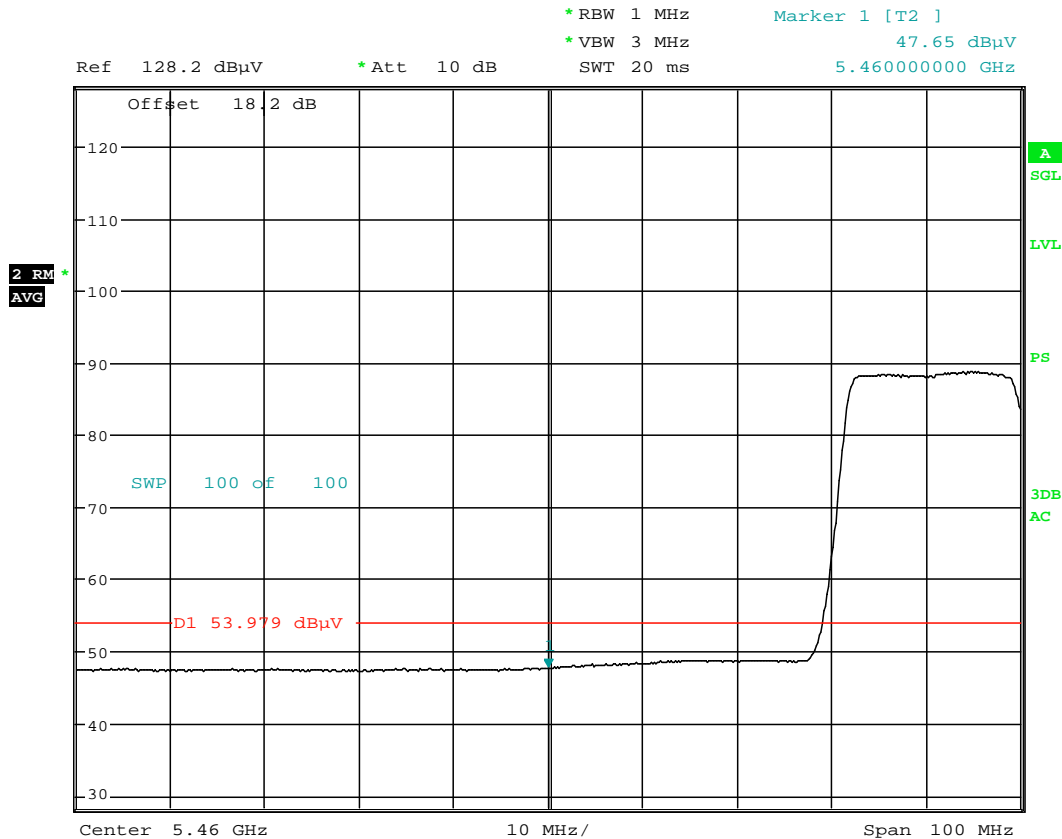
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102

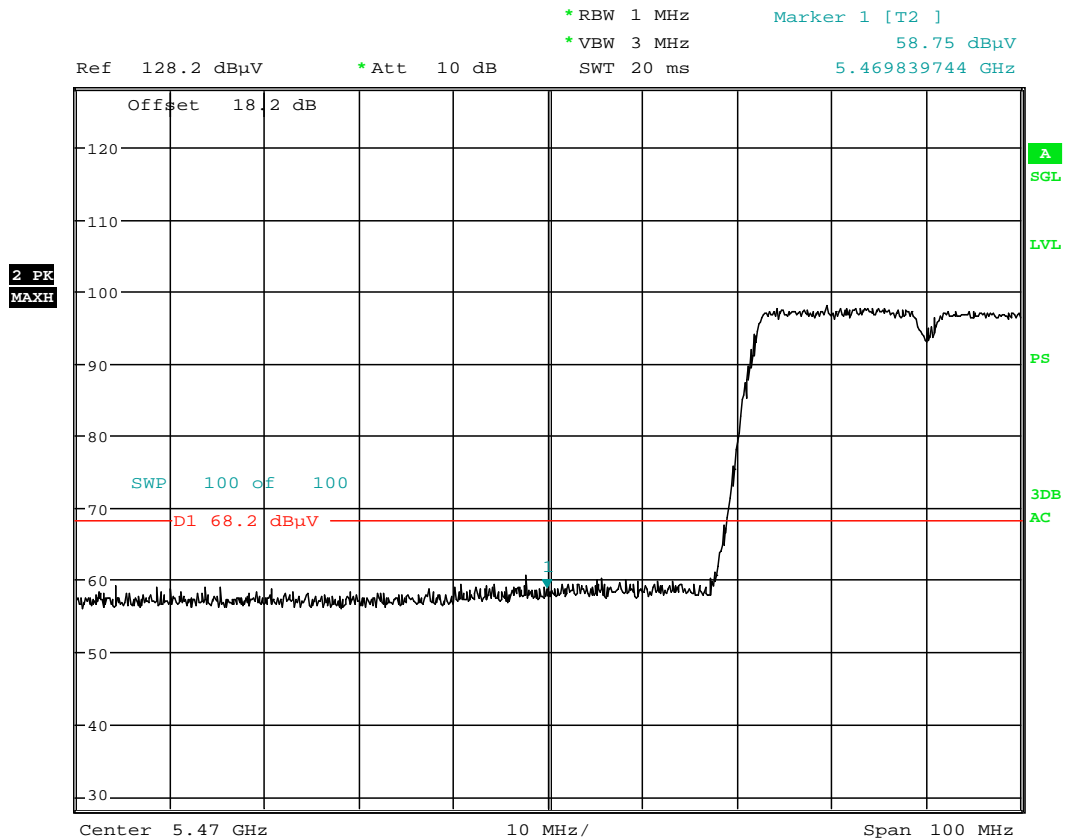


Date: 30.MAY.2014 02:21:33

**Plot 6-146. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**



FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 129 of 184

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



Date: 30.MAY.2014 02:22:43

**Plot 6-147. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT805M	 <b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT</b> <b>(CERTIFICATION)</b> 		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1405010894.A3L	<b>Test Dates:</b> 5/2-5/30/2014	<b>EUT Type:</b> Portable Tablet	Page 130 of 184

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

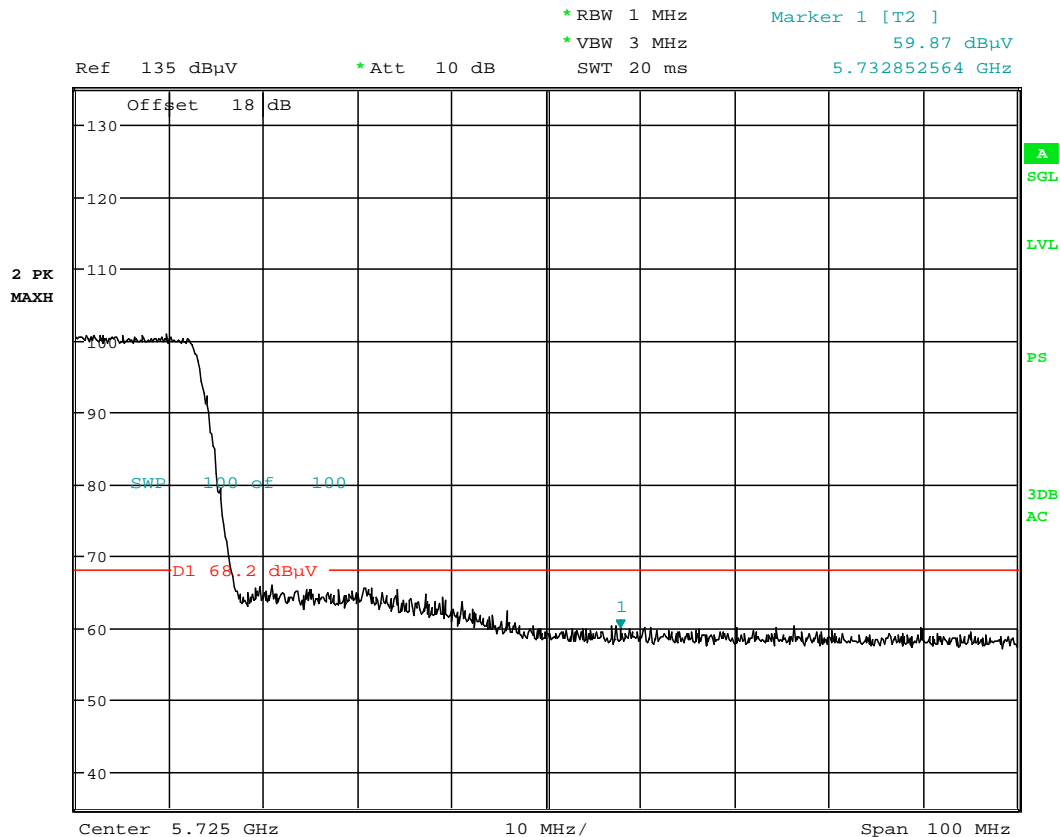
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5670MHz

Channel: 134



Date: 12.MAY.2014 23:03:27

**Plot 6-148. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 131 of 184

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

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

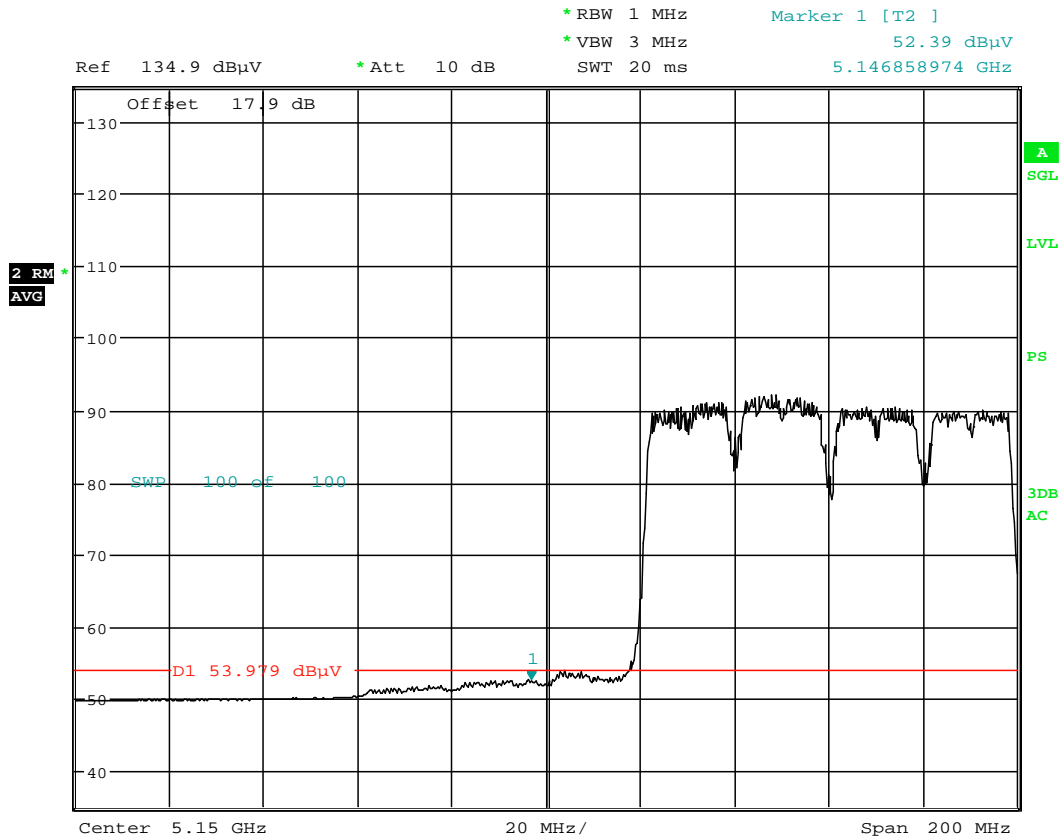
Worst Case Mode: 802.11n (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42



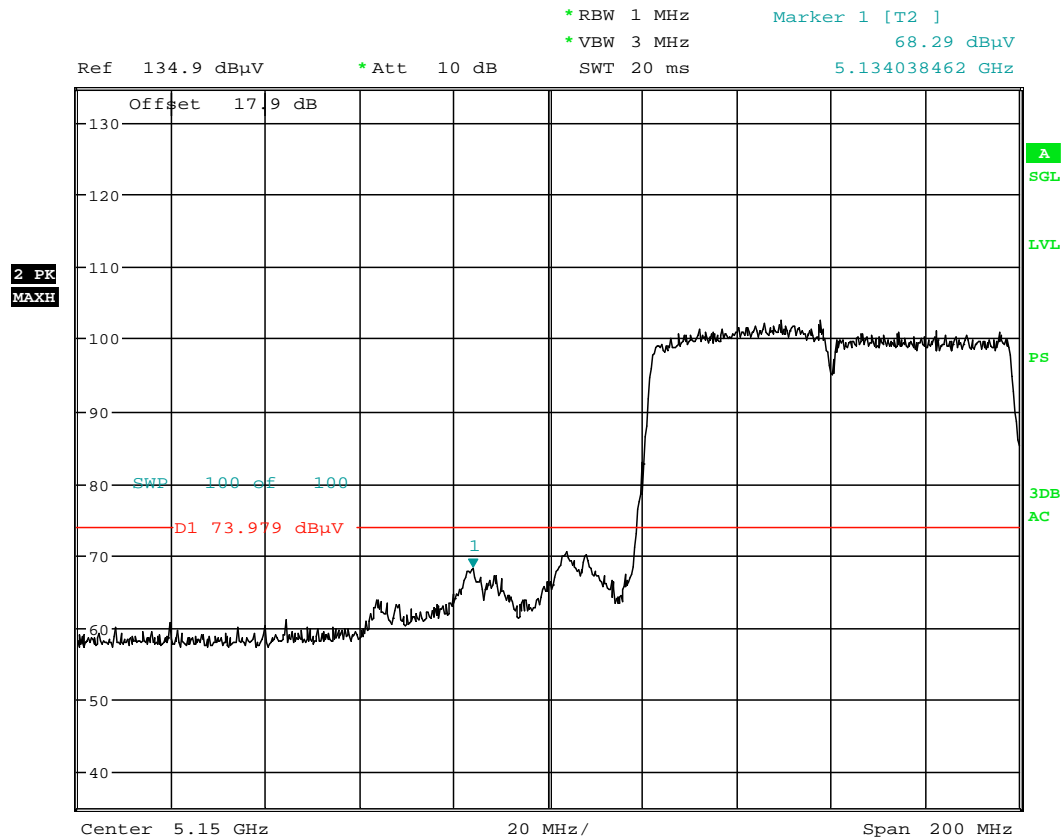
Date: 9.MAY.2014 00:02:14

**Plot 6-149. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 132 of 184



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



Date: 9.MAY.2014 00:03:01

**Plot 6-150. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 133 of 184

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

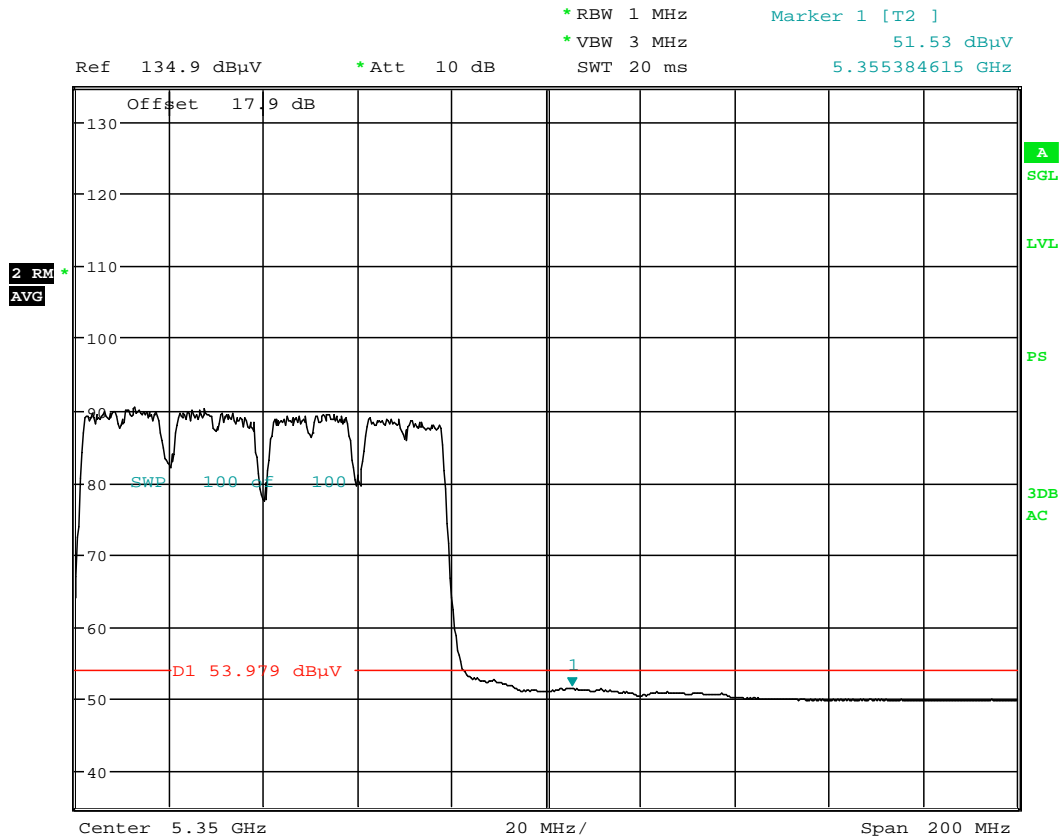
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58

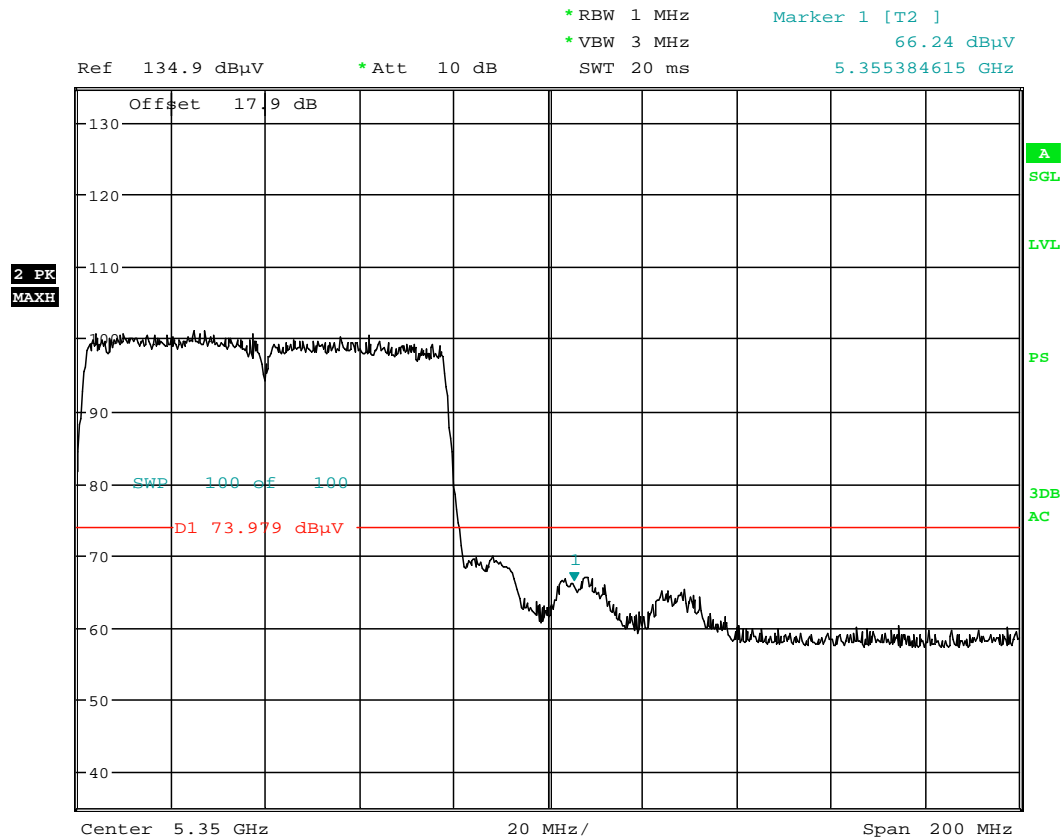


Date: 9.MAY.2014 00:18:12

**Plot 6-151. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 134 of 184

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



Date: 9.MAY.2014 00:19:50

**Plot 6-152. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 135 of 184

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

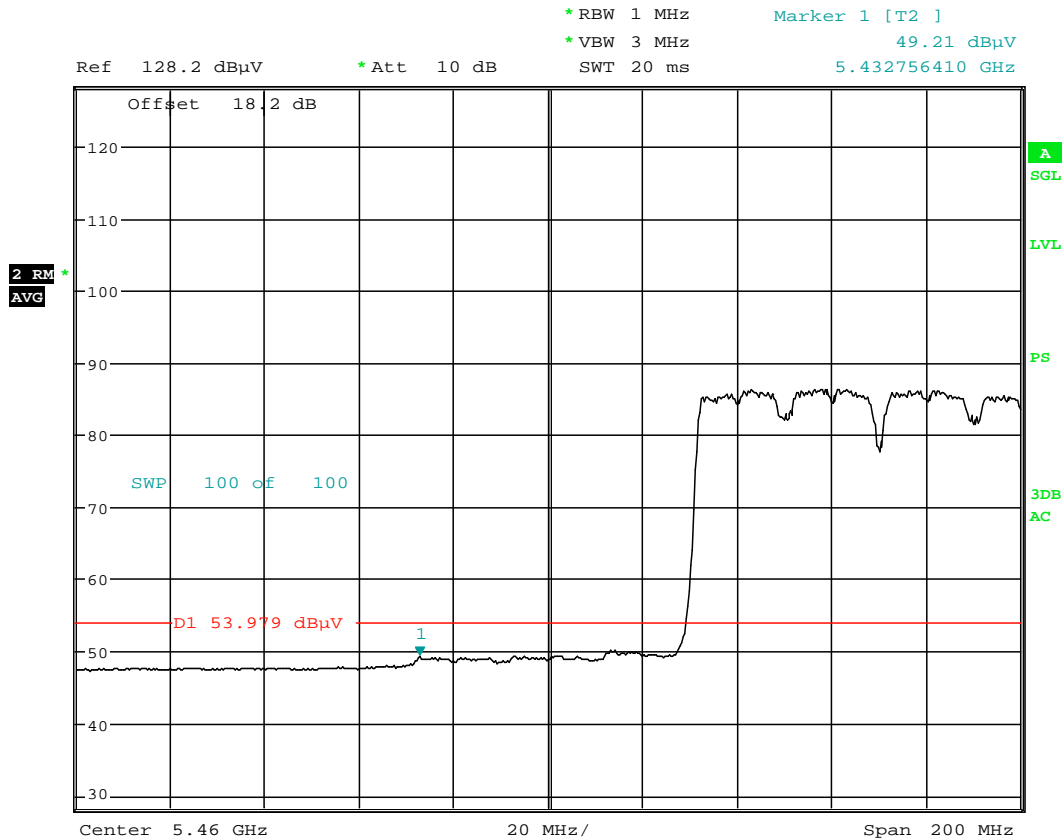
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5530MHz

Channel: 106



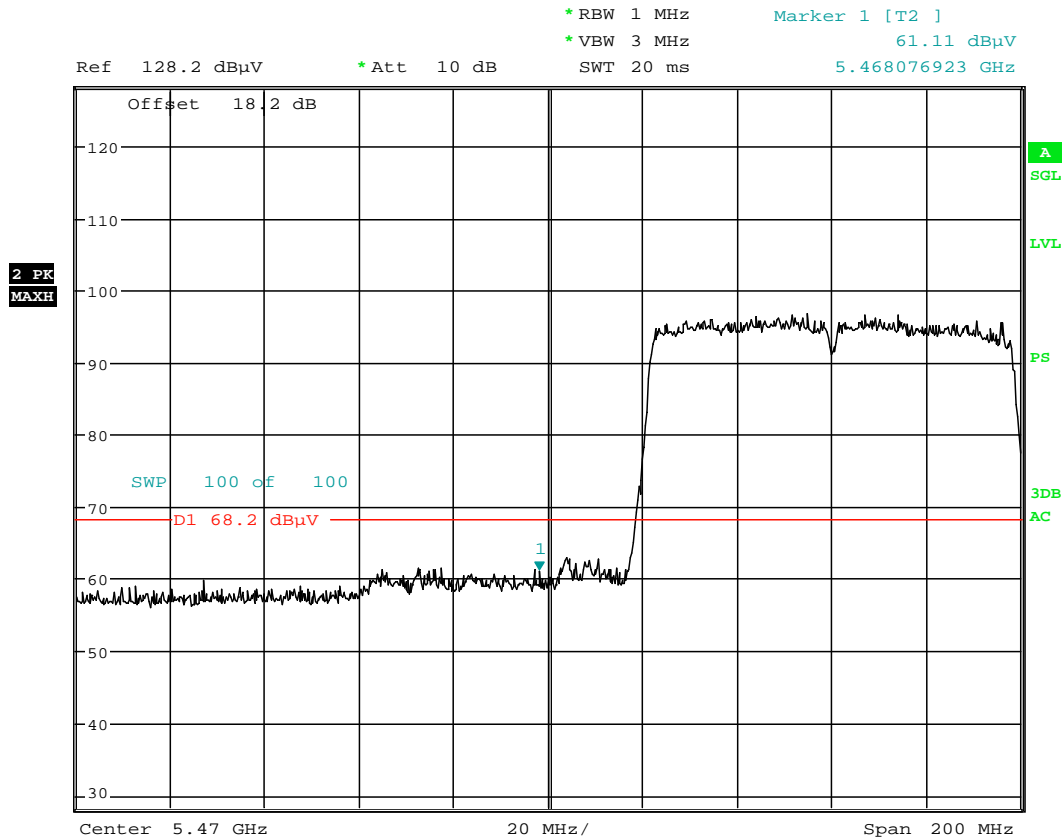
Date: 30.MAY.2014 02:30:29

**Plot 6-153. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 136 of 184

## Radiated Band Edge Measurements (80MHz BW)

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



Date: 30.MAY.2014 02:31:42

**Plot 6-154. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 137 of 184

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

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

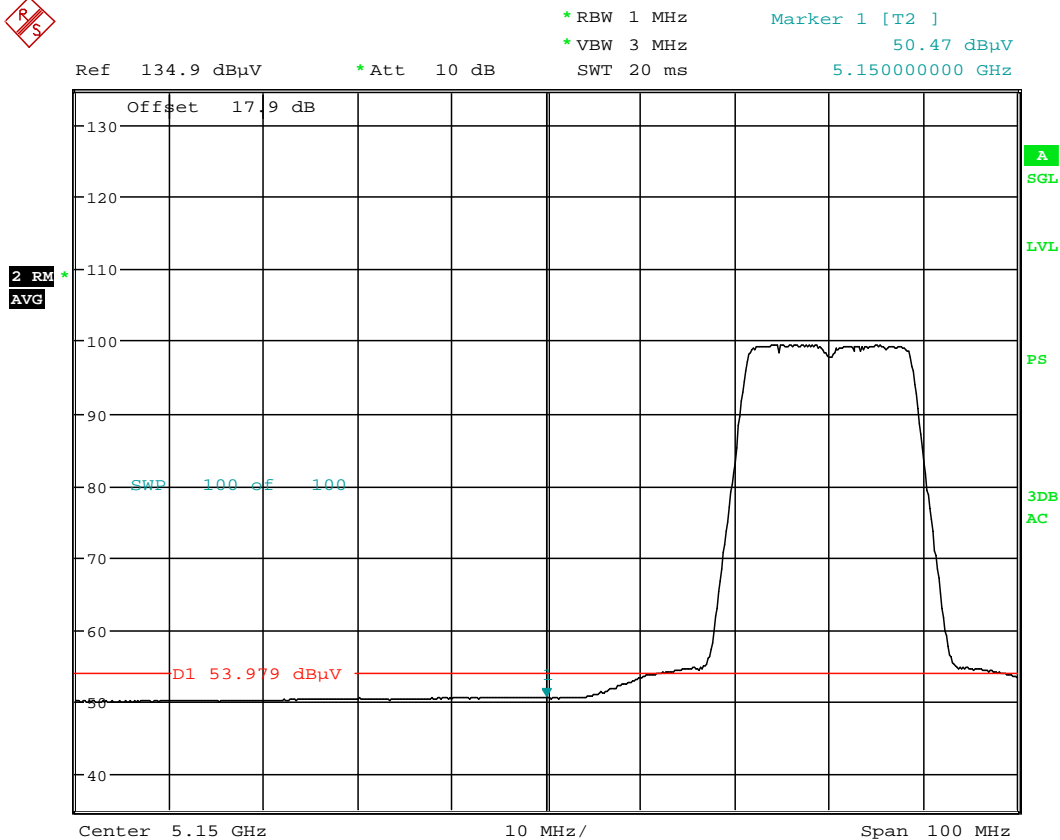
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36

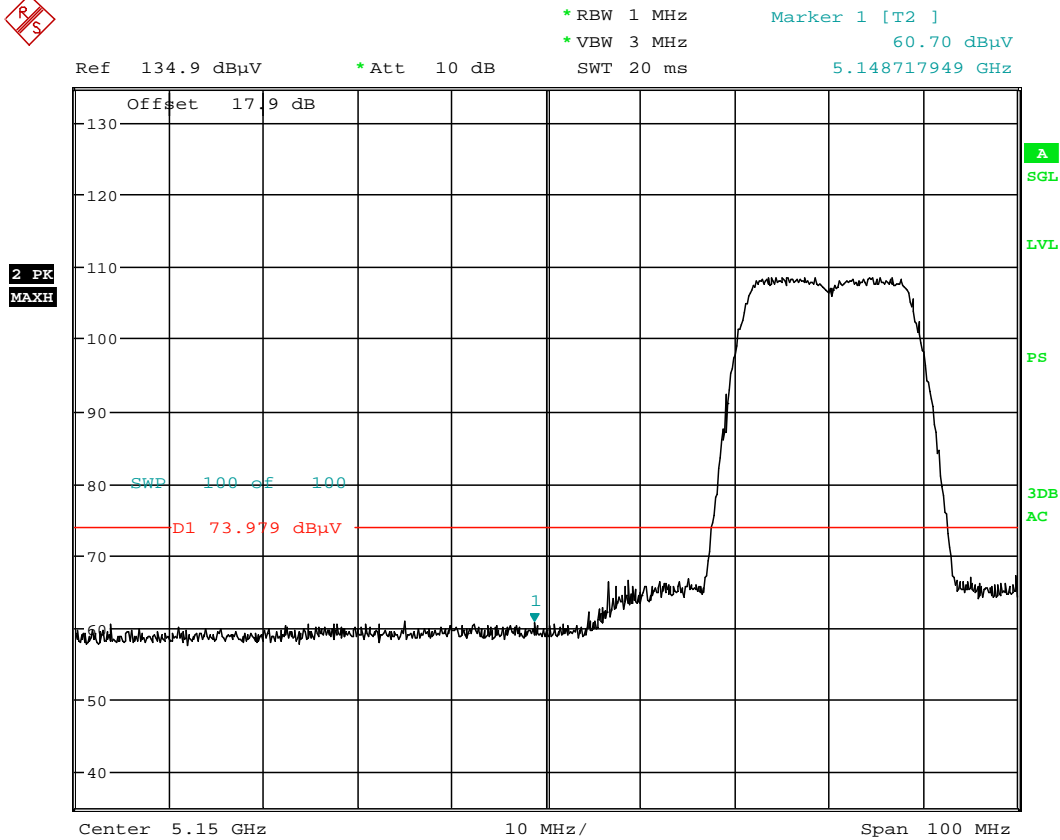


Date: 10.MAY.2014 16:42:08

**Plot 6-155. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT805M		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 138 of 184

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



Date: 10.MAY.2014 16:42:36

**Plot 6-156. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 139 of 184

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

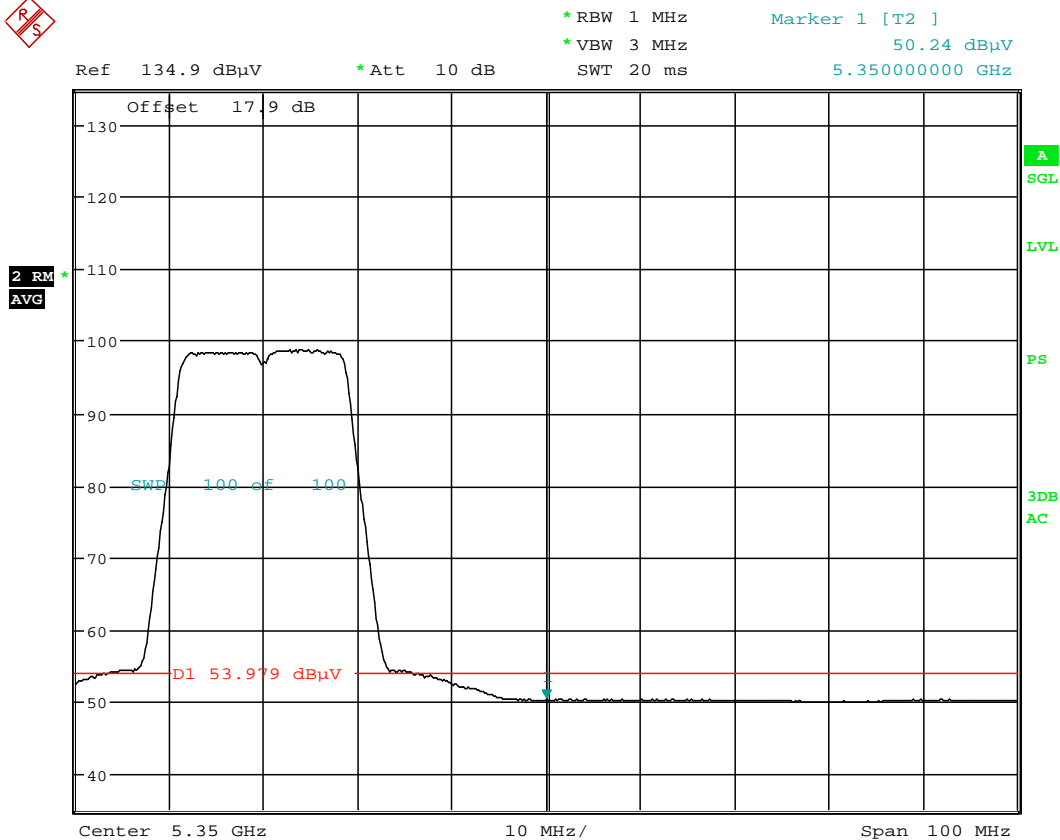
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64



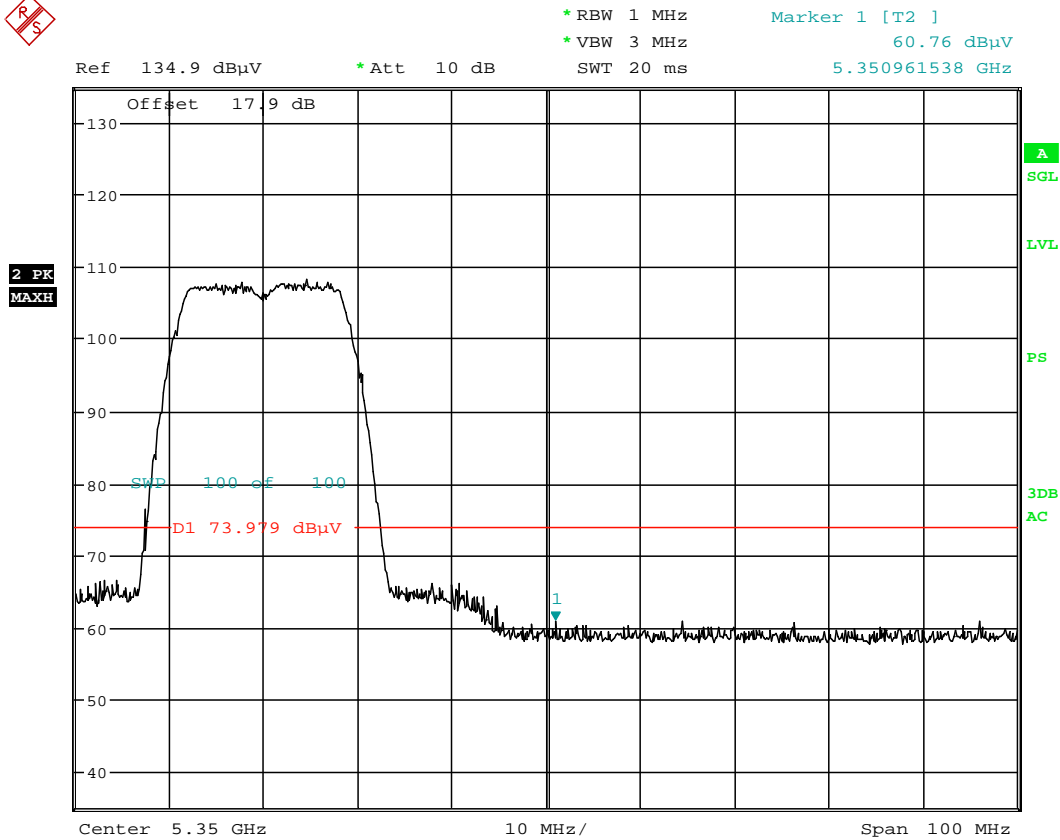
Date: 10.MAY.2014 17:29:00

**Plot 6-157. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 140 of 184



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



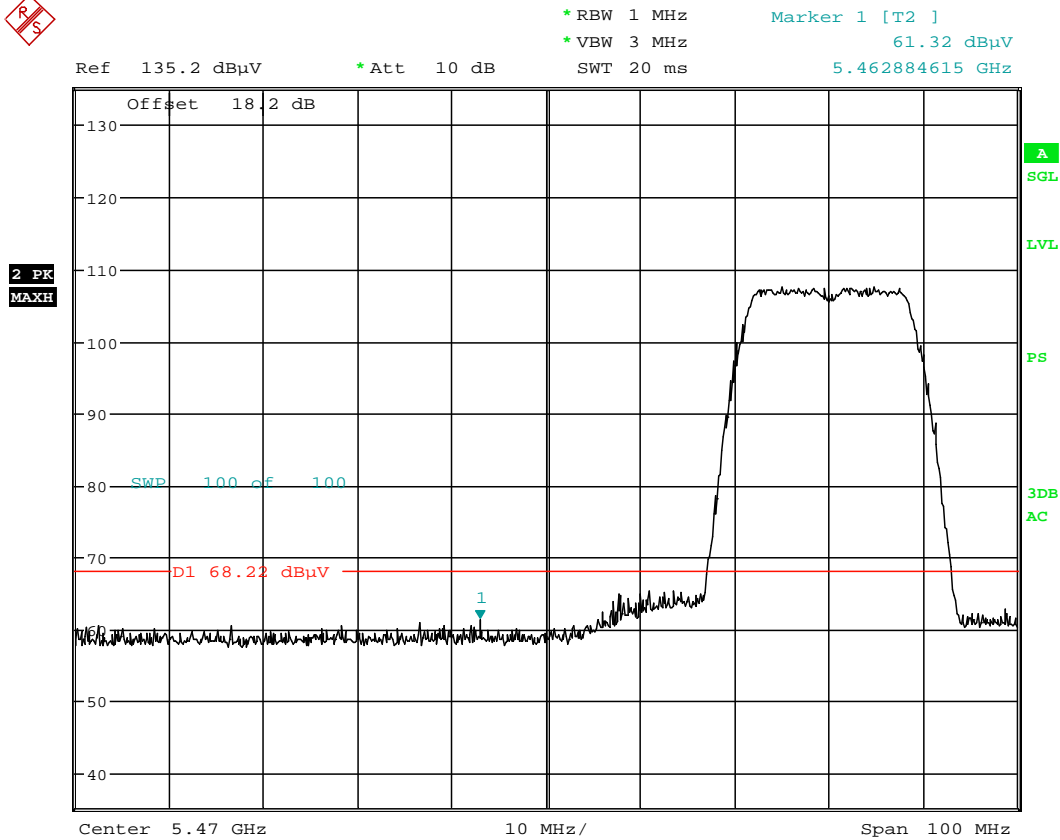
Date: 10.MAY.2014 17:29:39

**Plot 6-158. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 141 of 184



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



Date: 10.MAY.2014 18:05:05

**Plot 6-160. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 143 of 184

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

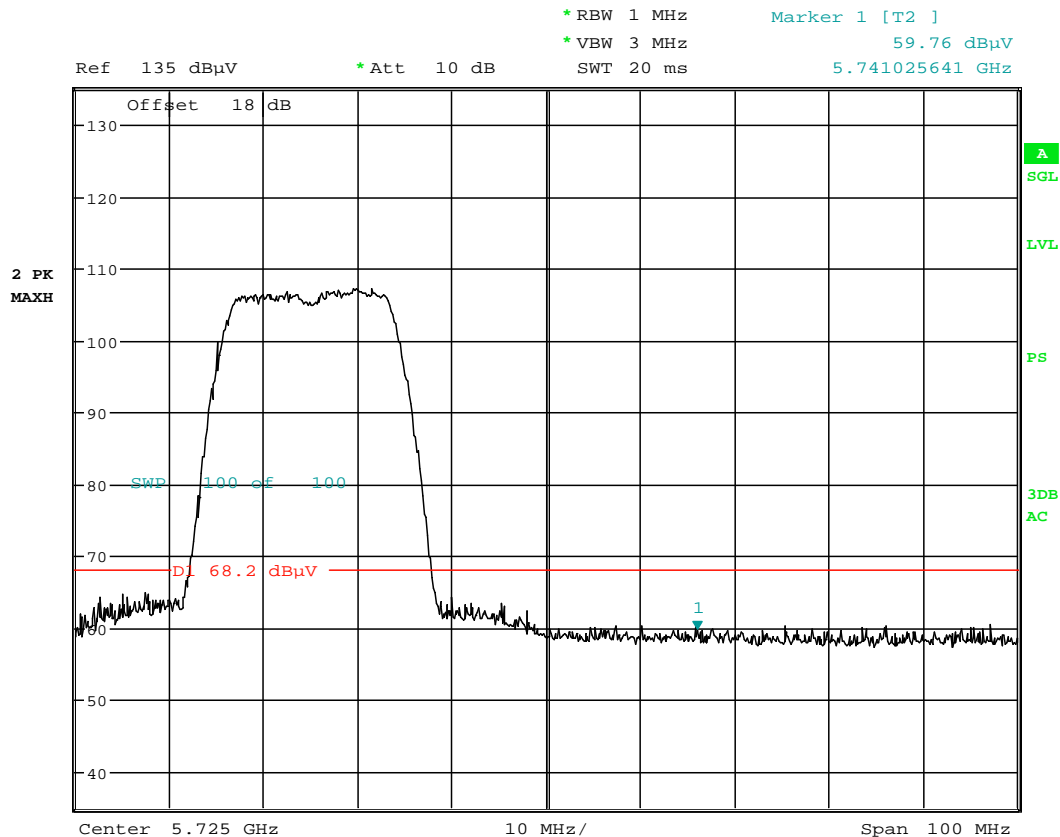
Worst Case Mode: 802.11a

Worst Case Transfer Rate: 6 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5700MHz

Channel: 140



Date: 12.MAY.2014 20:41:51

**Plot 6-161. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 144 of 184

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

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

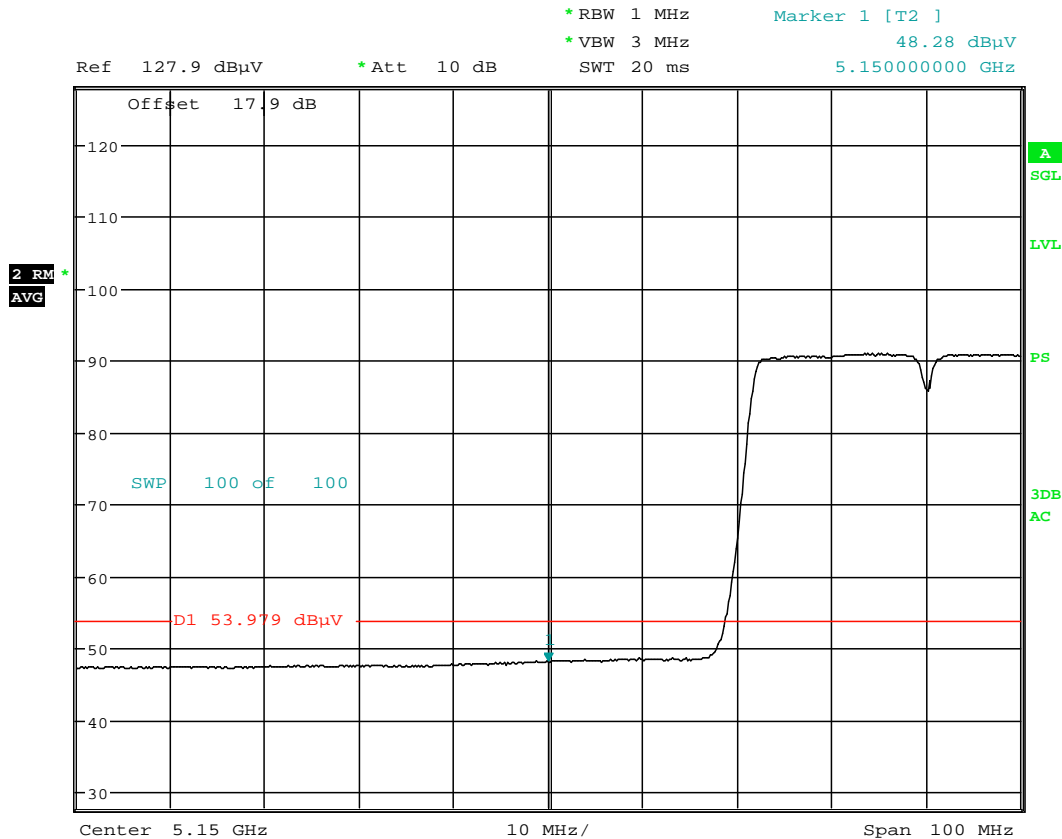
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38

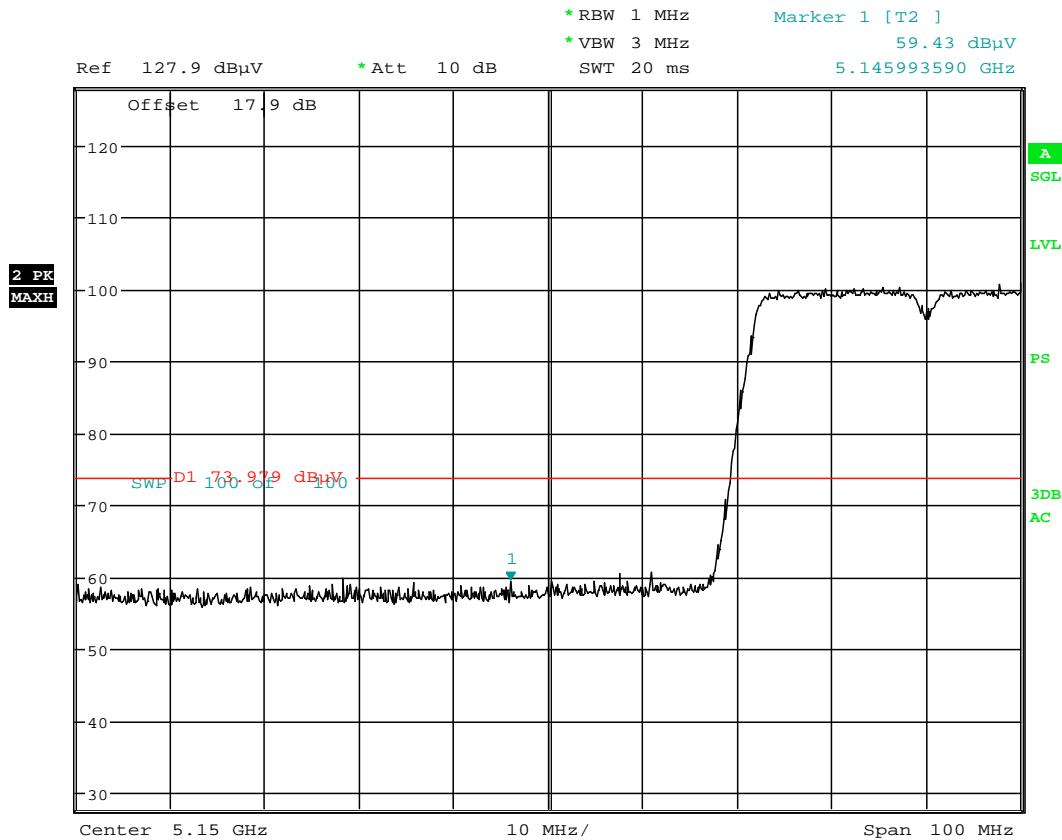


Date: 30.MAY.2014 02:41:42

**Plot 6-162. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 145 of 184

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



Date: 30.MAY.2014 02:42:32

**Plot 6-163. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 146 of 184

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

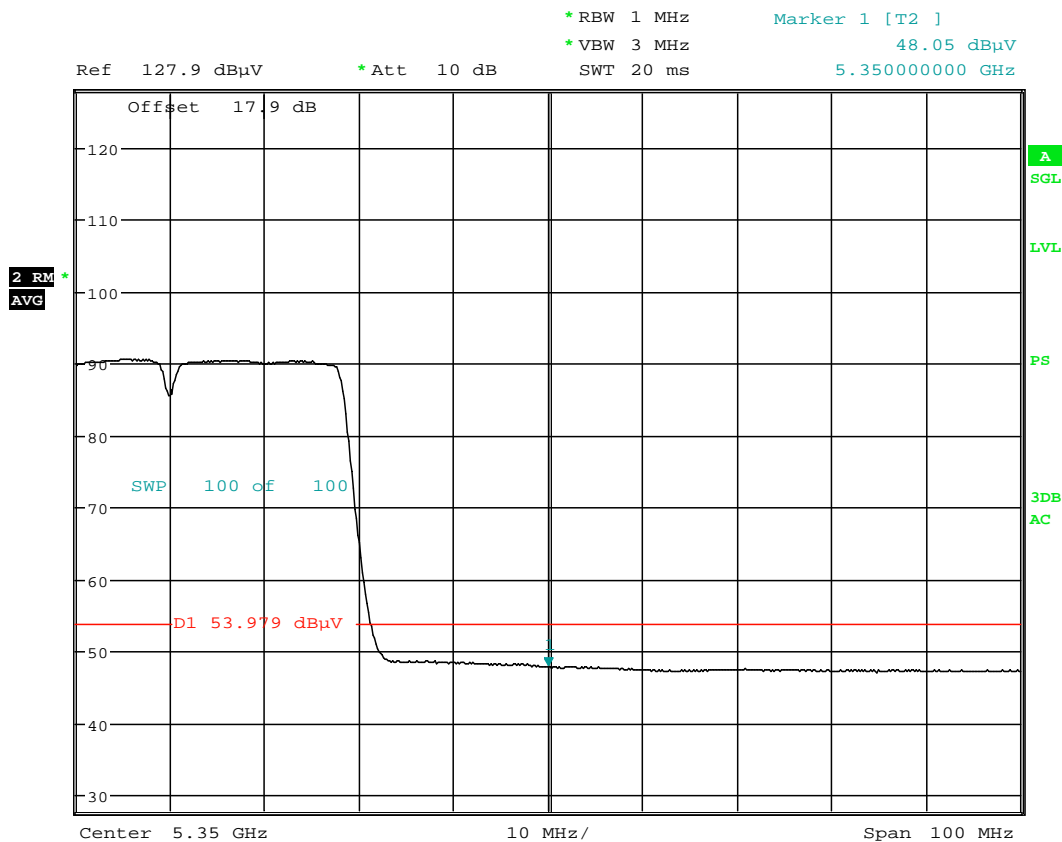
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62

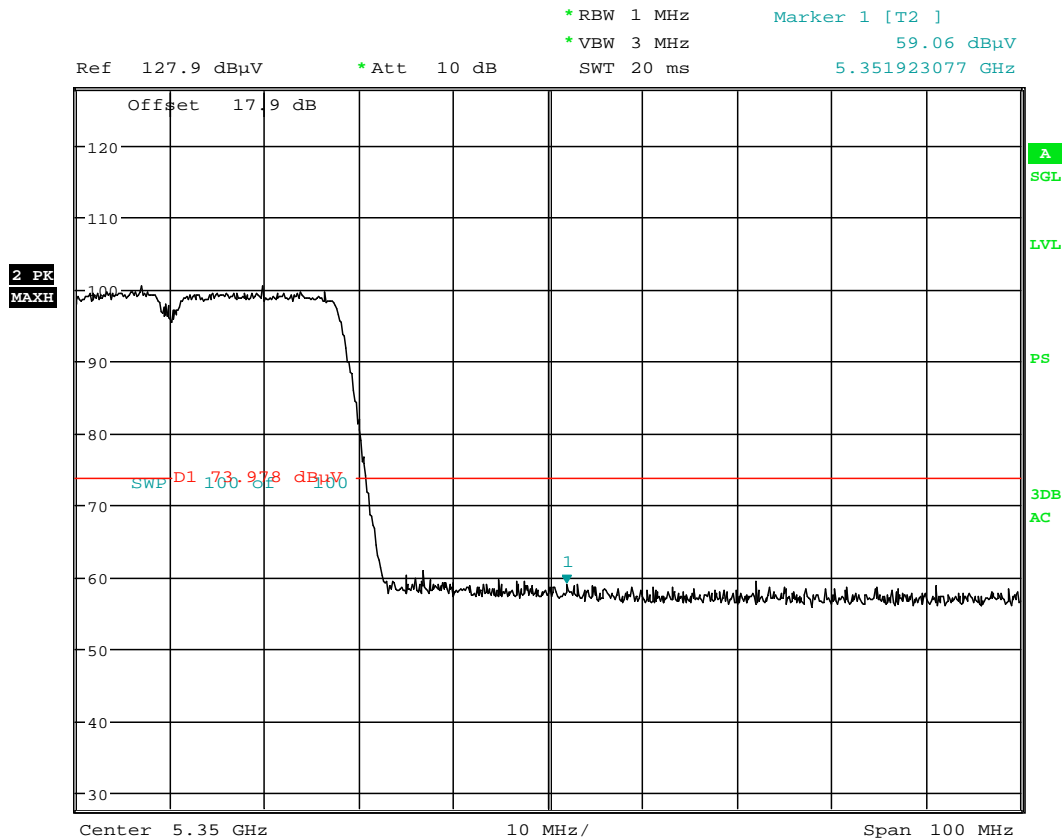


Date: 30.MAY.2014 02:46:47

**Plot 6-164. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 147 of 184

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



Date: 30.MAY.2014 02:47:16

**Plot 6-165. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 148 of 184



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

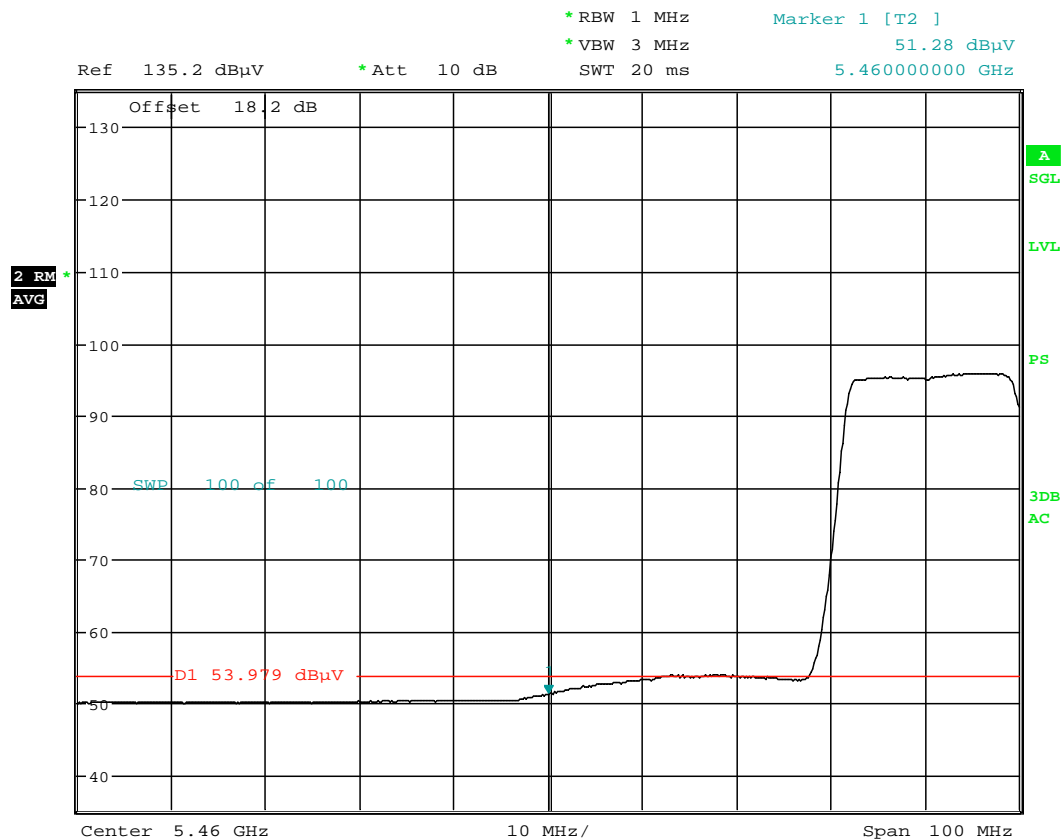
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102

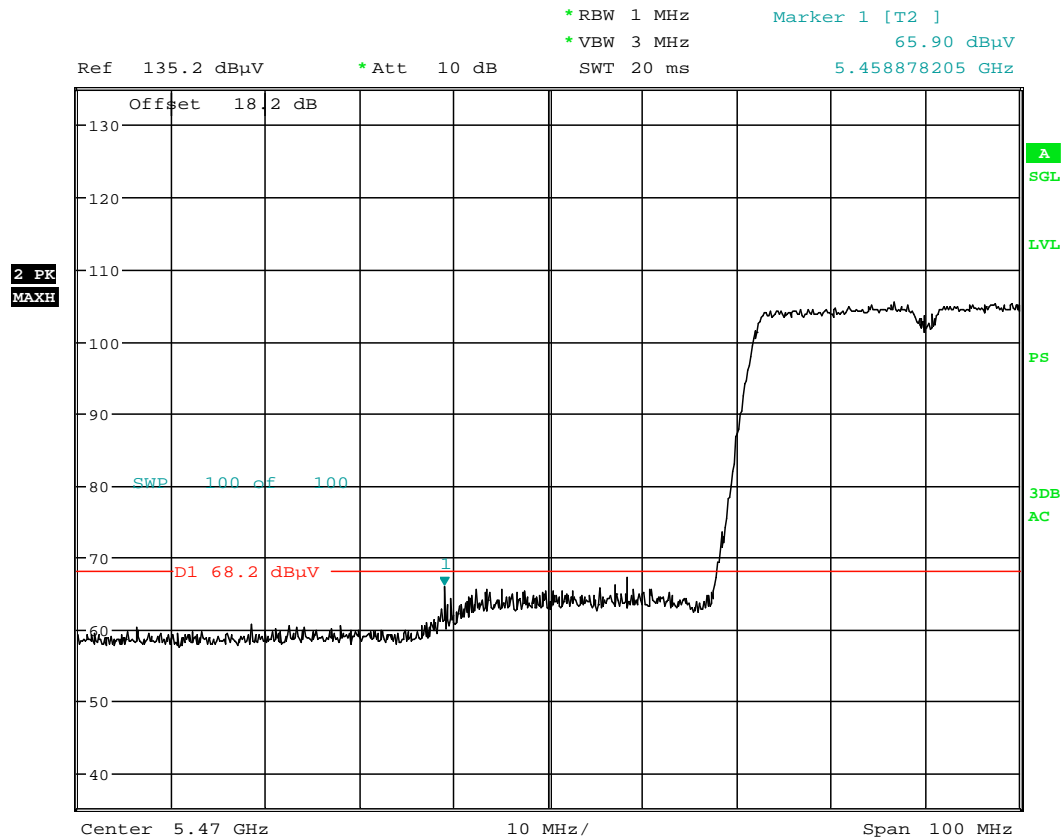


Date: 12.MAY.2014 20:07:09

**Plot 6-166. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 149 of 184

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



Date: 12.MAY.2014 20:07:58

**Plot 6-167. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 150 of 184

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

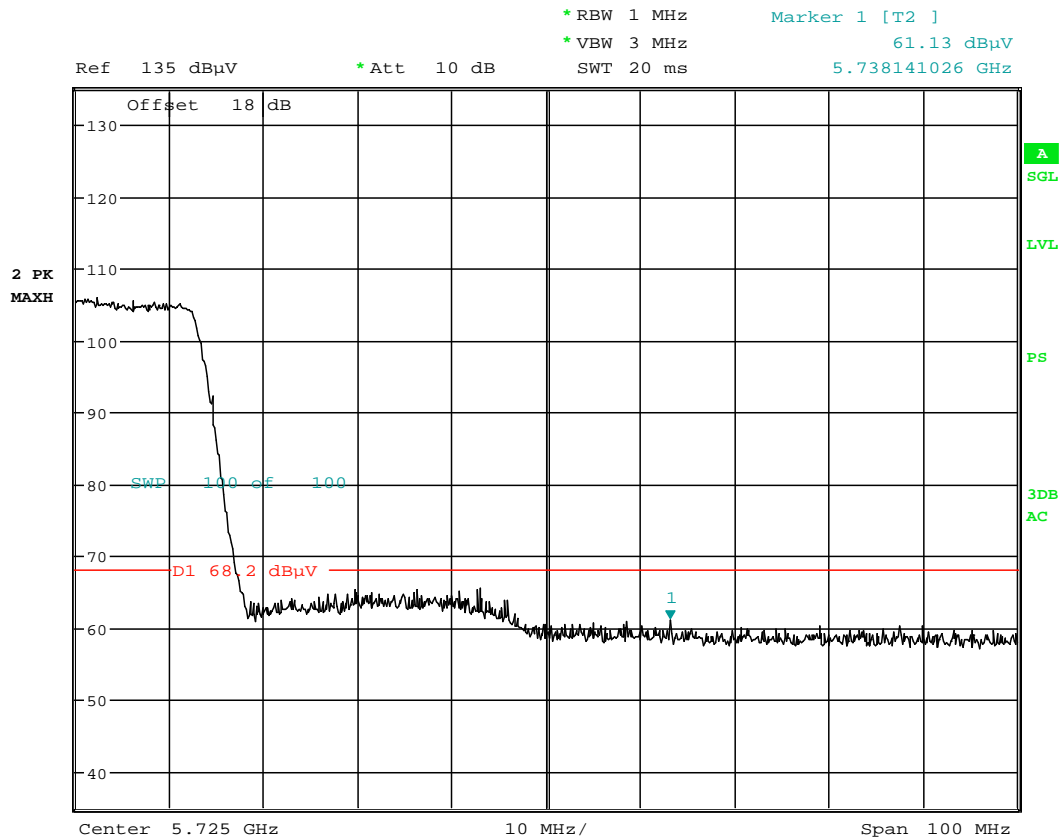
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5670MHz

Channel: 134



Date: 12.MAY.2014 20:13:05

**Plot 6-168. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 151 of 184

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

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

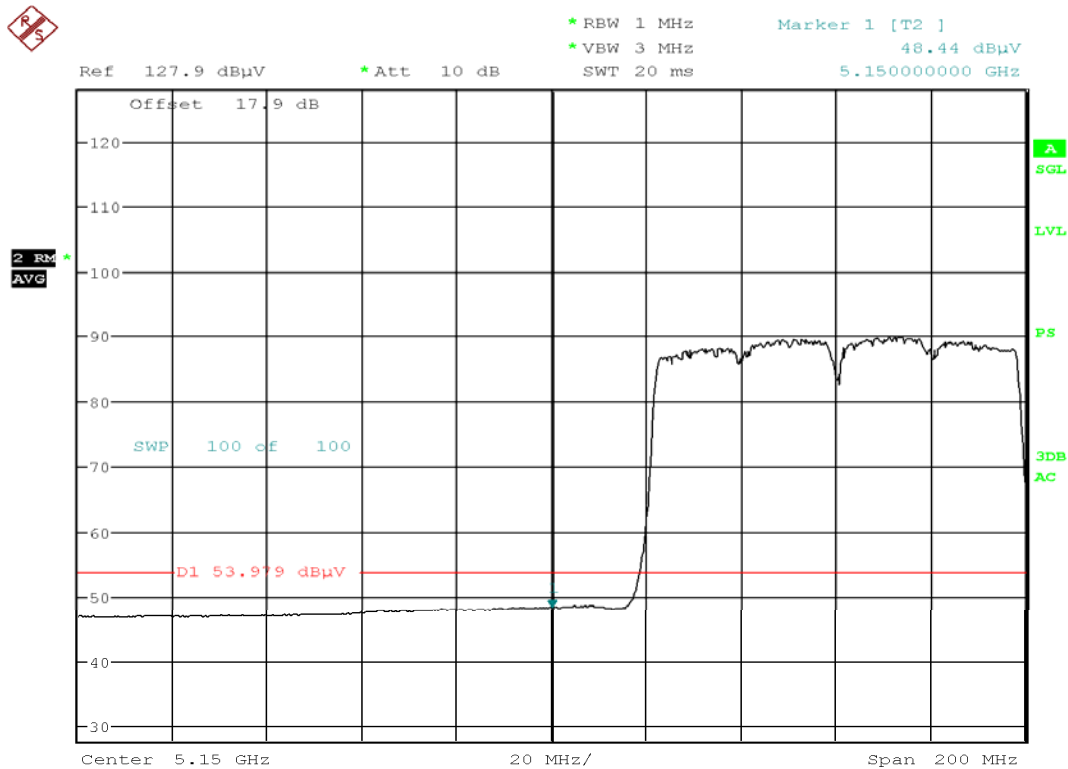
Worst Case Mode: 802.11n (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42

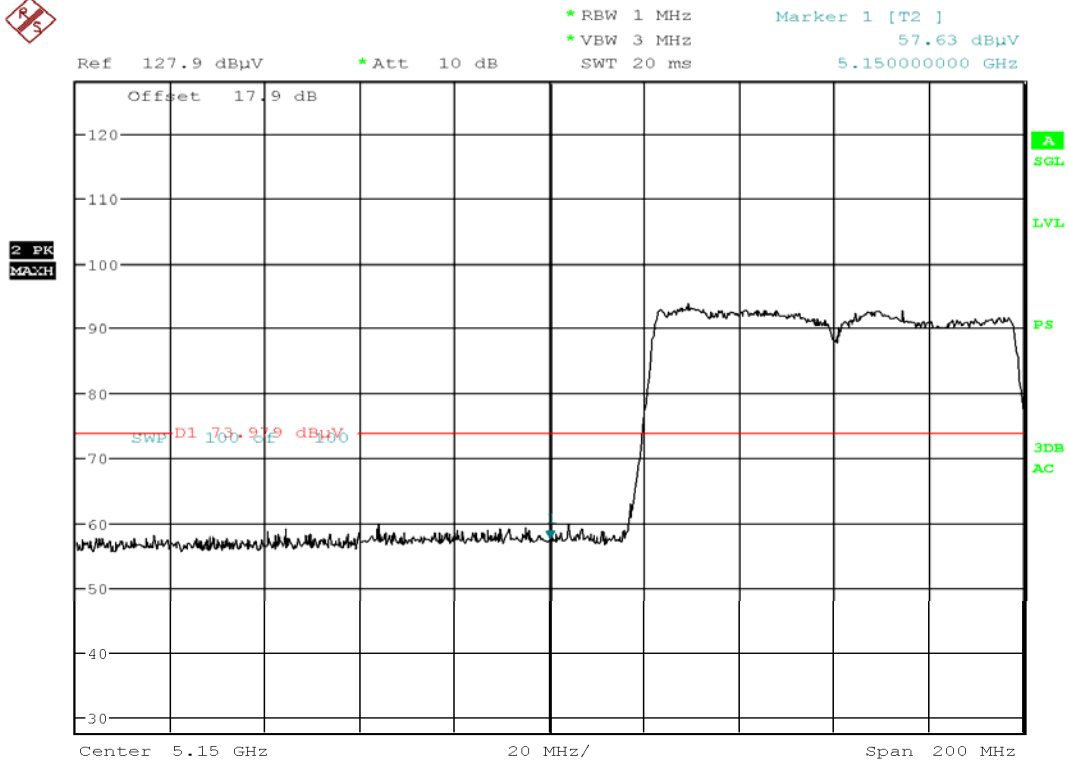


Date: 19.MAY.2014 23:38:21

**Plot 6-169. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 152 of 184

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



Date: 19.MAY.2014 23:39:51

**Plot 6-170. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 153 of 184

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

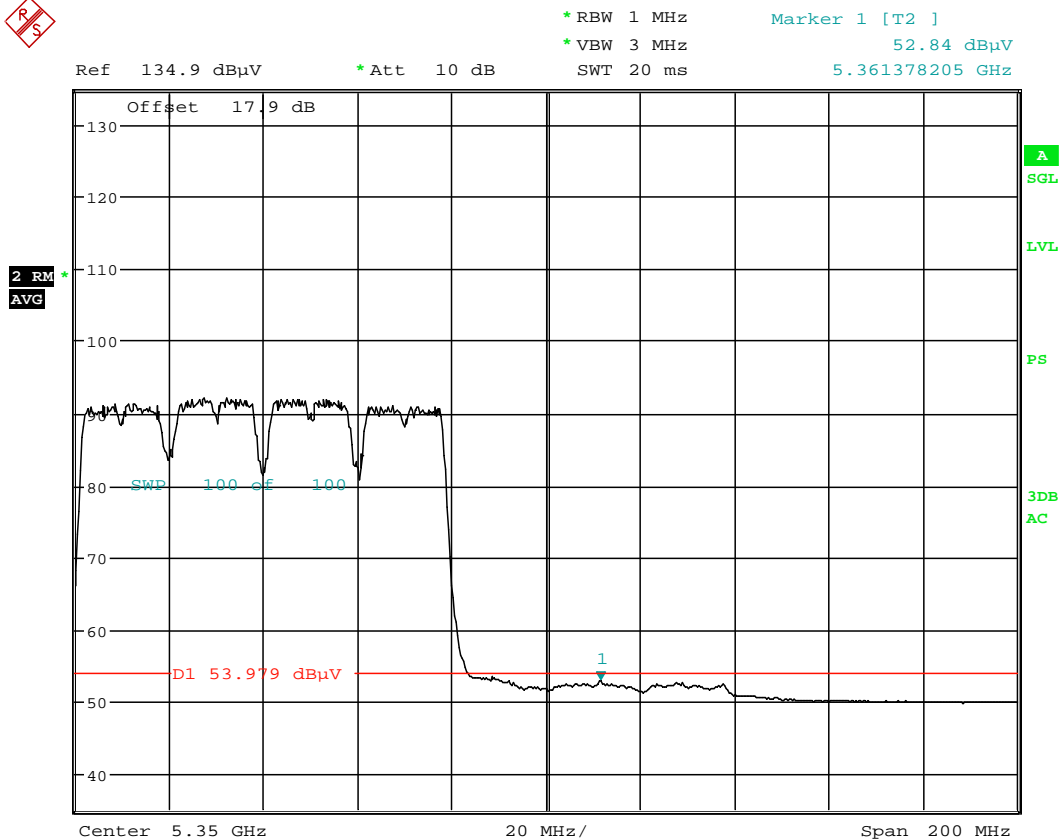
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58

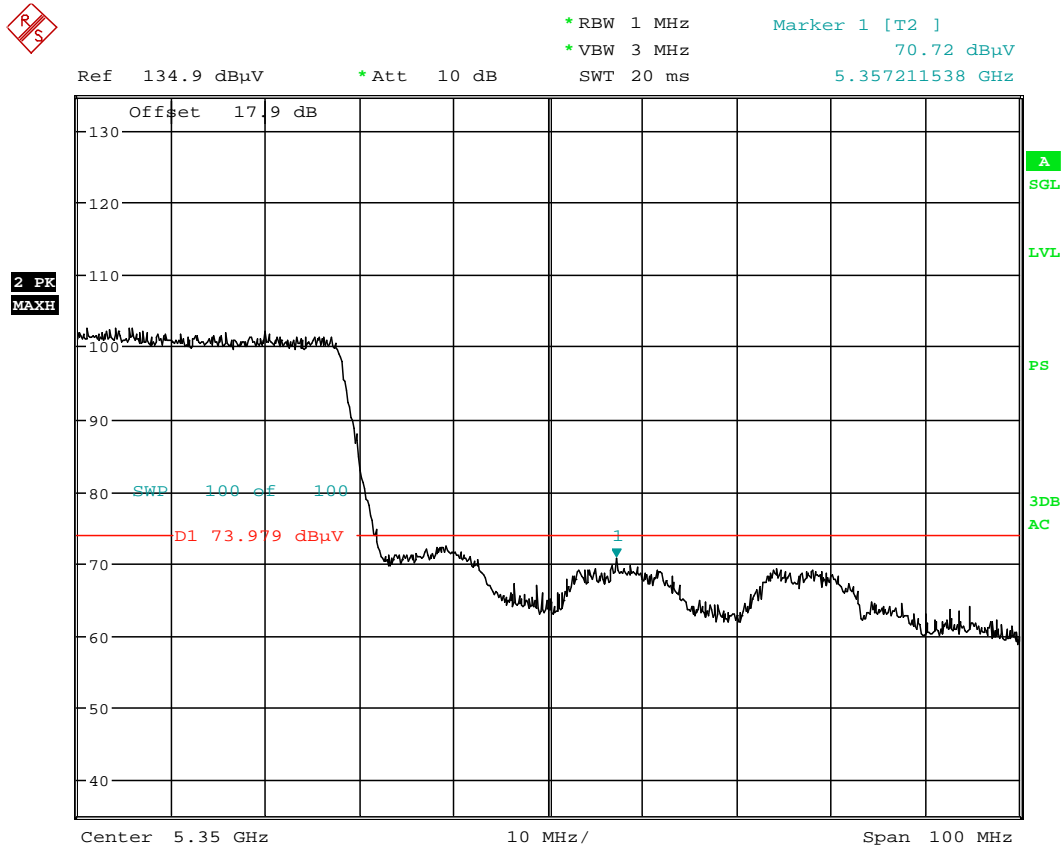


Date: 10.MAY.2014 17:57:45

**Plot 6-171. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**



FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 154 of 184

**Radiated Band Edge Measurements (80MHz BW)**  
§15.407(b.1)(b.2) §15.205 §15.209



Date: 10.MAY.2014 17:56:40

**Plot 6-172. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMT805M	 <b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)</b> 		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1405010894.A3L	<b>Test Dates:</b> 5/2-5/30/2014	<b>EUT Type:</b> Portable Tablet	Page 155 of 184

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

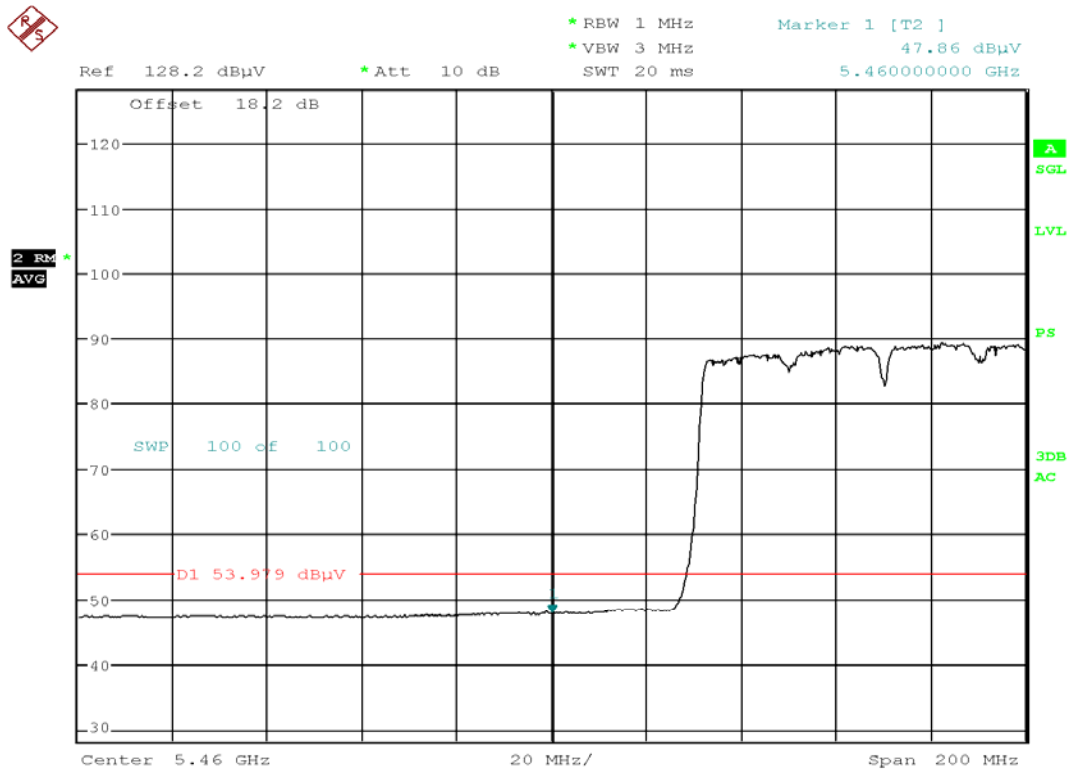
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5530MHz

Channel: 106



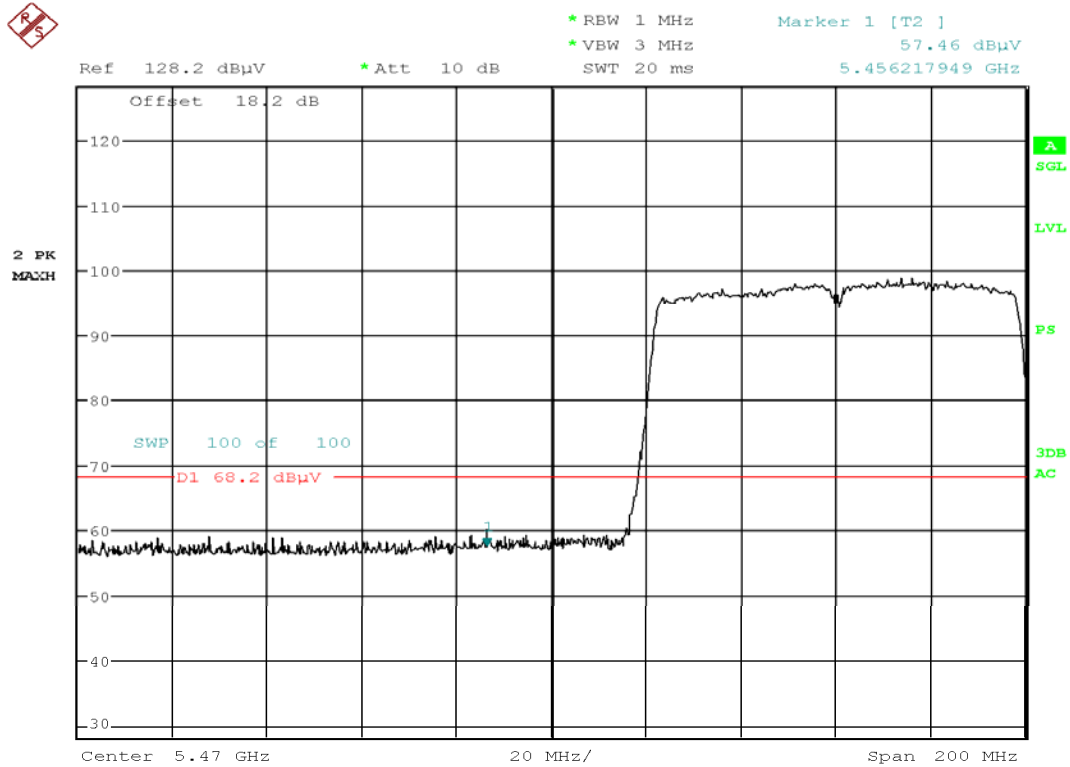
Date: 19.MAY.2014 23:46:52

**Plot 6-173. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 156 of 184



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



Date: 19.MAY.2014 23:46:21

**Plot 6-174. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 157 of 184

## 6.14 MIMO Radiated Band Edge Measurements (20MHz BW)

§15.407(b.1)(b.2) §15.205 §15.209

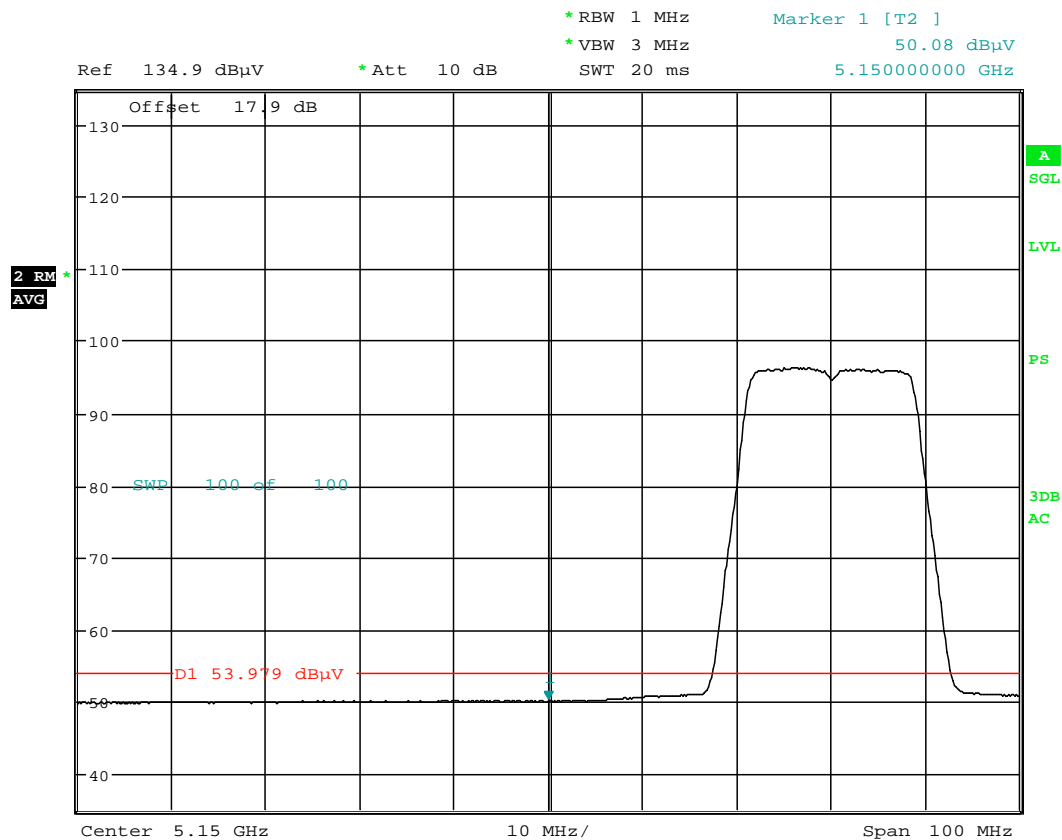
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36

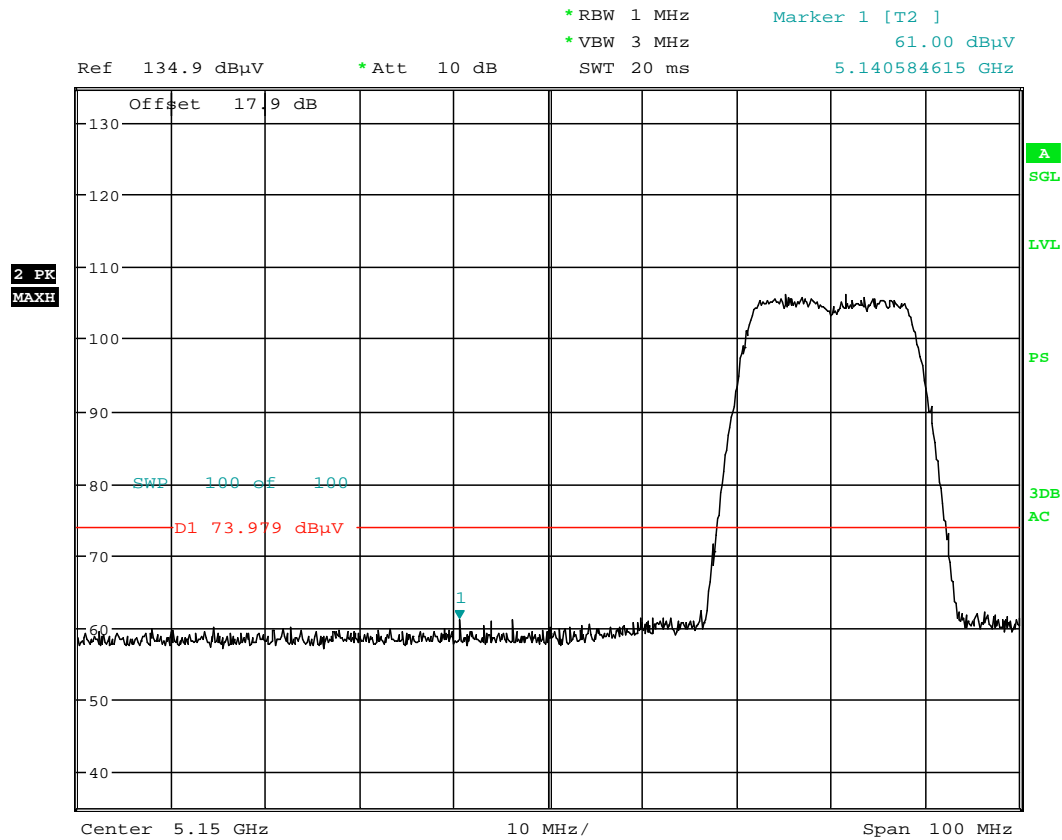


Date: 12.MAY.2014 22:05:50

**Plot 6-175. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 158 of 184

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



Date: 12.MAY.2014 22:06:41

**Plot 6-176. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

<b>FCC ID:</b> A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT</b> (CERTIFICATION)	<b>SAMSUNG</b>	<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1405010894.A3L	<b>Test Dates:</b> 5/2-5/30/2014	<b>EUT Type:</b> Portable Tablet		Page 159 of 184

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

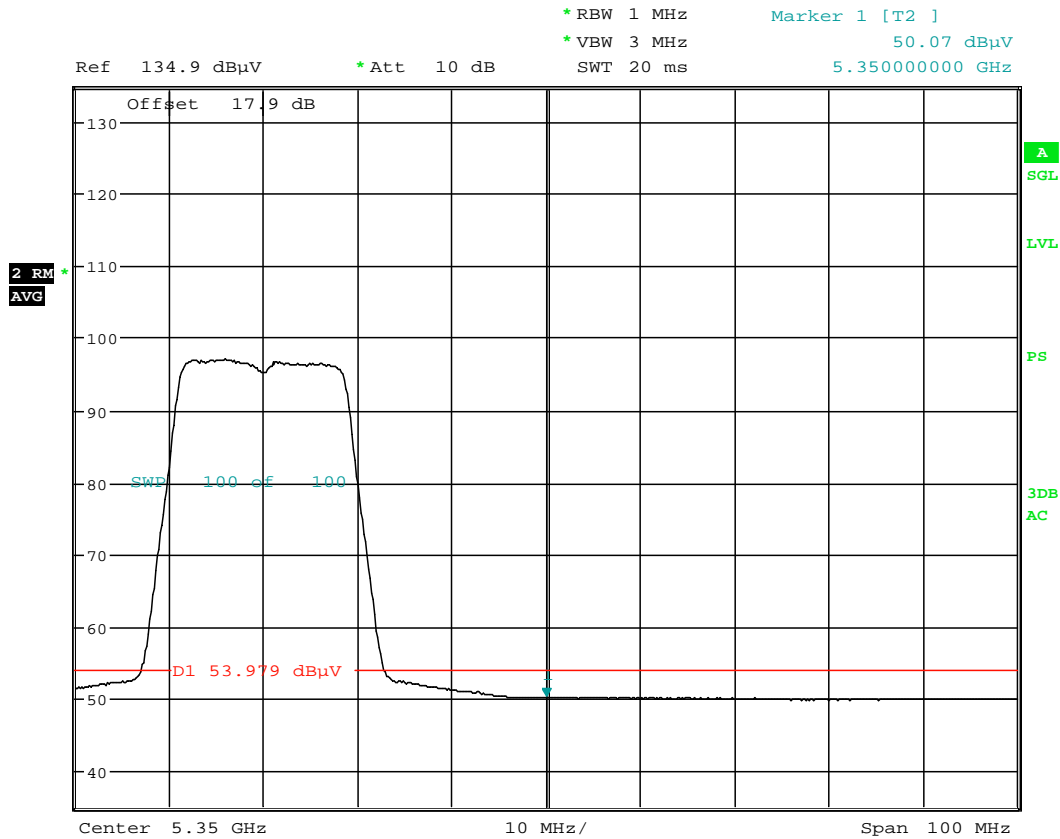
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64

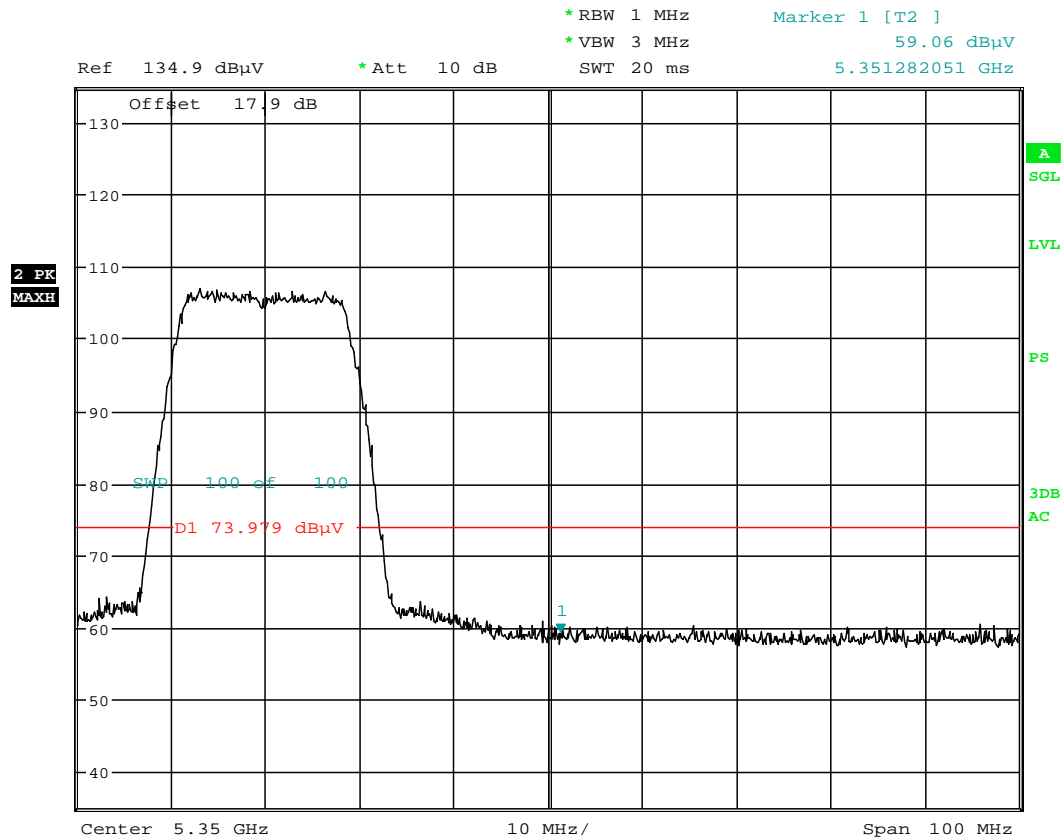


Date: 12.MAY.2014 22:34:51

**Plot 6-177. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 160 of 184

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



Date: 12.MAY.2014 22:35:22

**Plot 6-178. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 161 of 184

## Radiated Band Edge Measurements (20MHz BW)

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

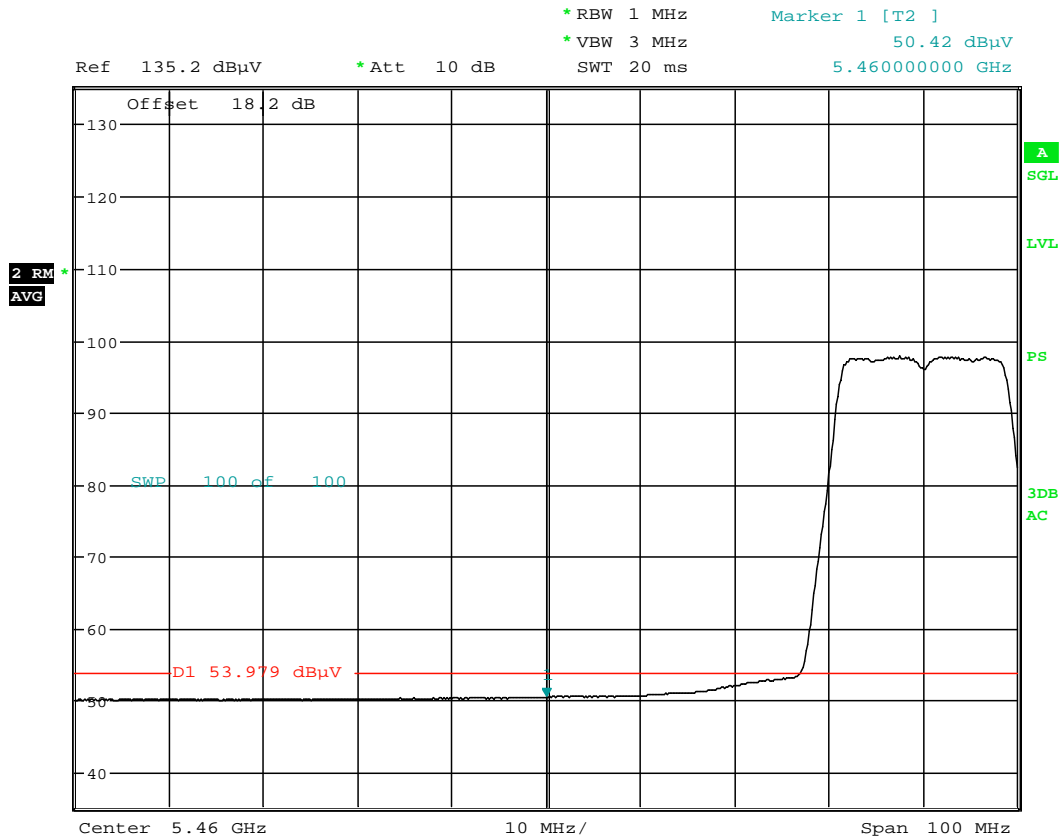
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5500MHz

Channel: 100

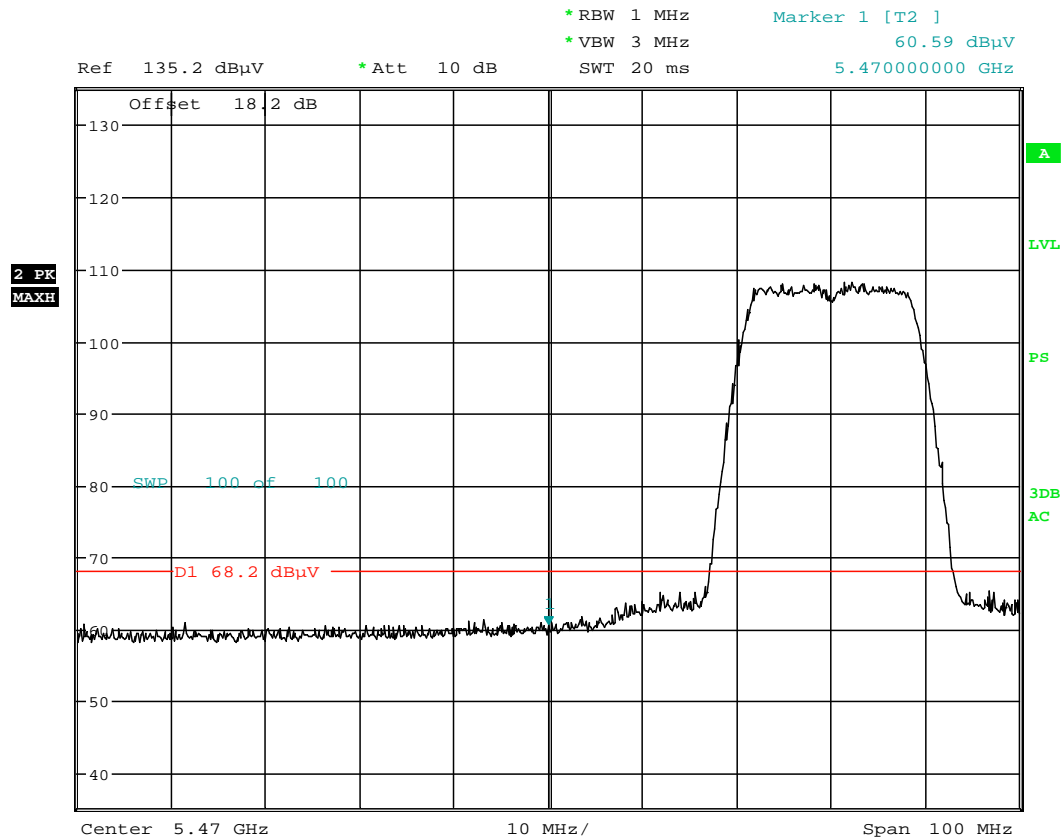


Date: 12.MAY.2014 22:42:56

**Plot 6-179. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 162 of 184

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



Date: 12.MAY.2014 22:43:34

**Plot 6-180. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 163 of 184

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

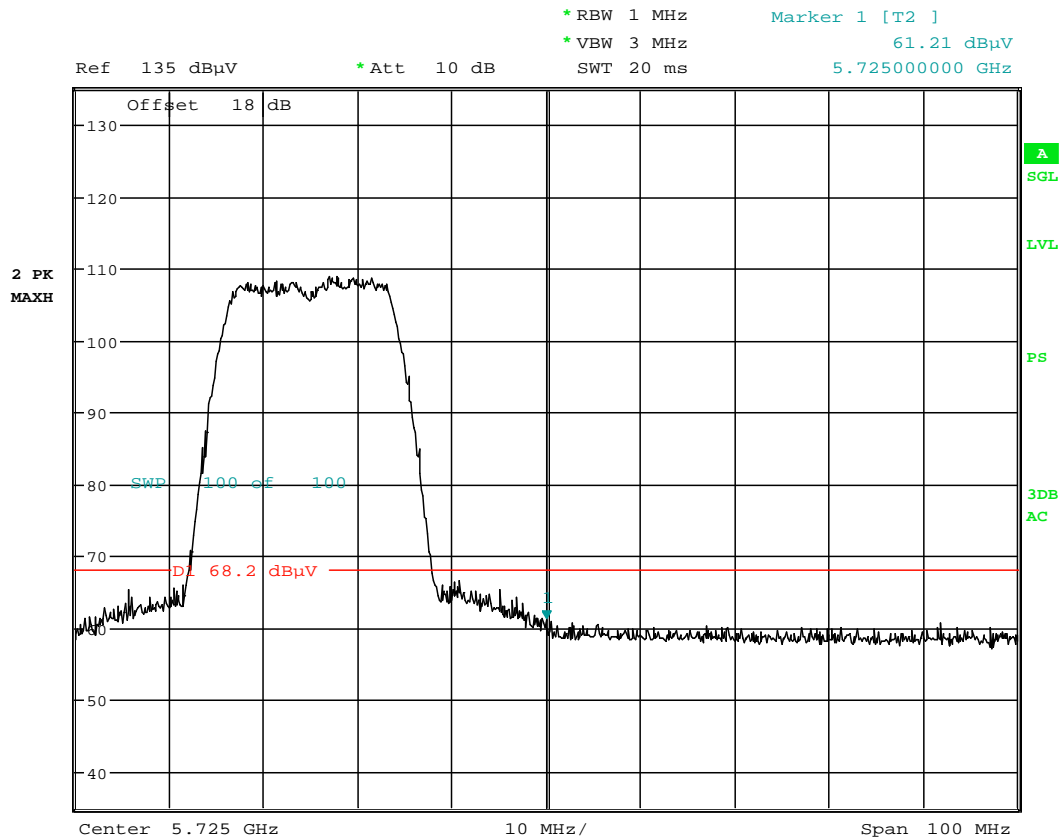
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5700MHz

Channel: 140



Date: 12.MAY.2014 22:52:04

**Plot 6-181. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 164 of 184



## 6.15 MIMO Radiated Band Edge Measurements (40MHz BW)

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

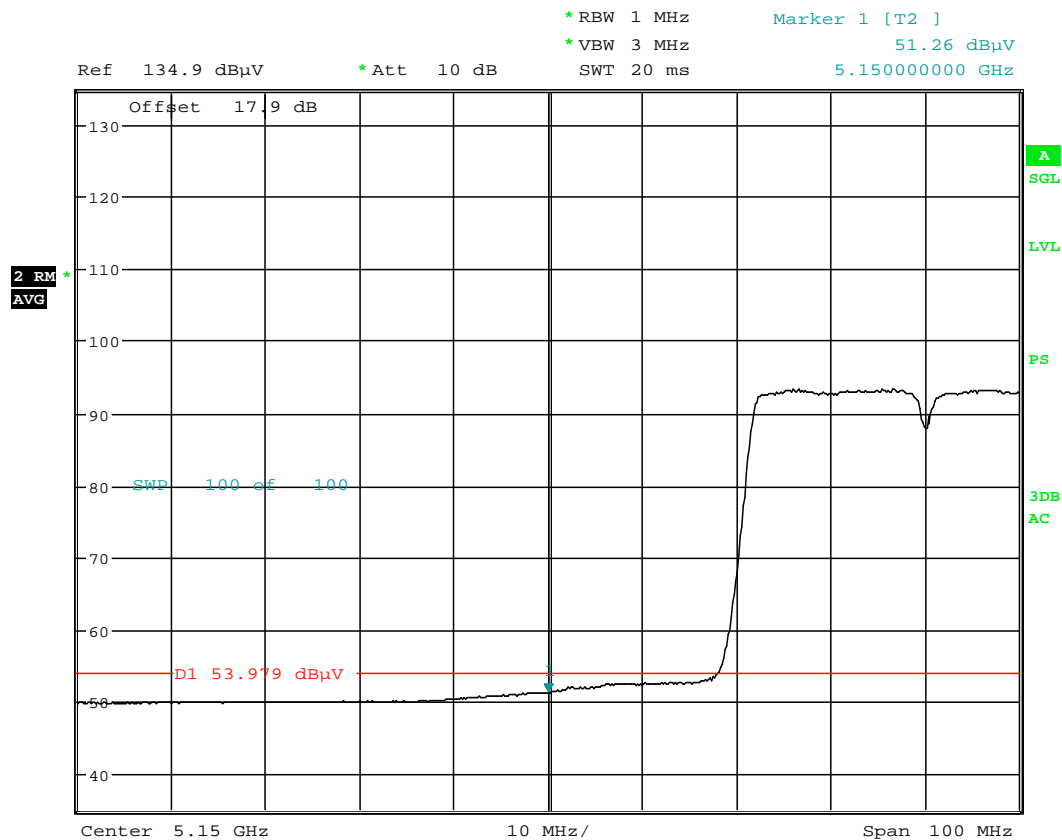
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38

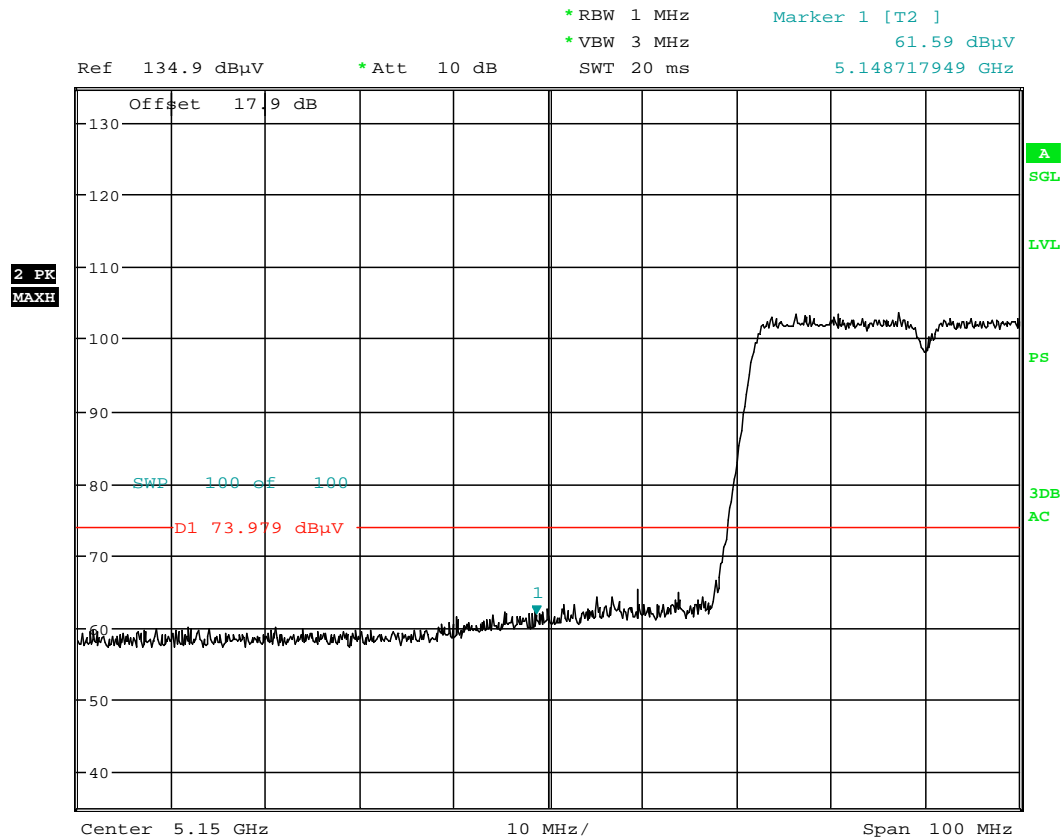


Date: 12.MAY.2014 22:08:16

**Plot 6-182. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**



FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 165 of 184

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



Date: 12.MAY.2014 22:08:57

**Plot 6-183. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3LSMT805M	 <b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT</b> <b>(CERTIFICATION)</b> 		<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1405010894.A3L	<b>Test Dates:</b> 5/2-5/30/2014	<b>EUT Type:</b> Portable Tablet	Page 166 of 184

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

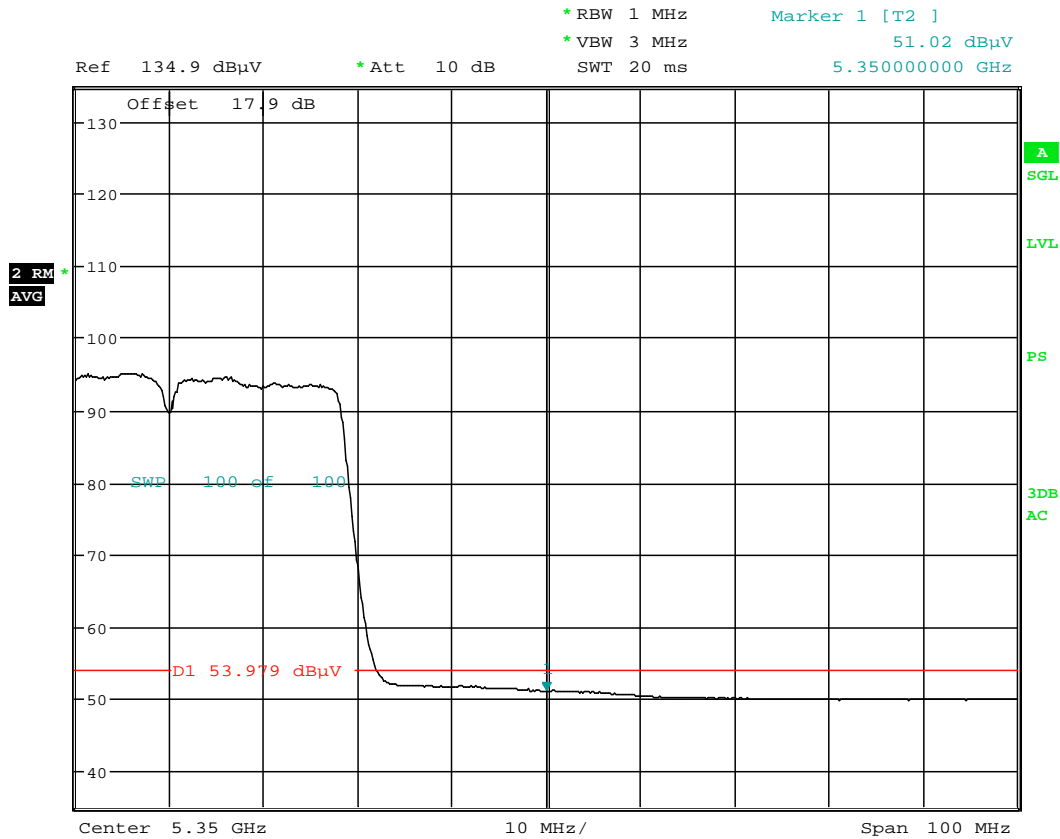
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62

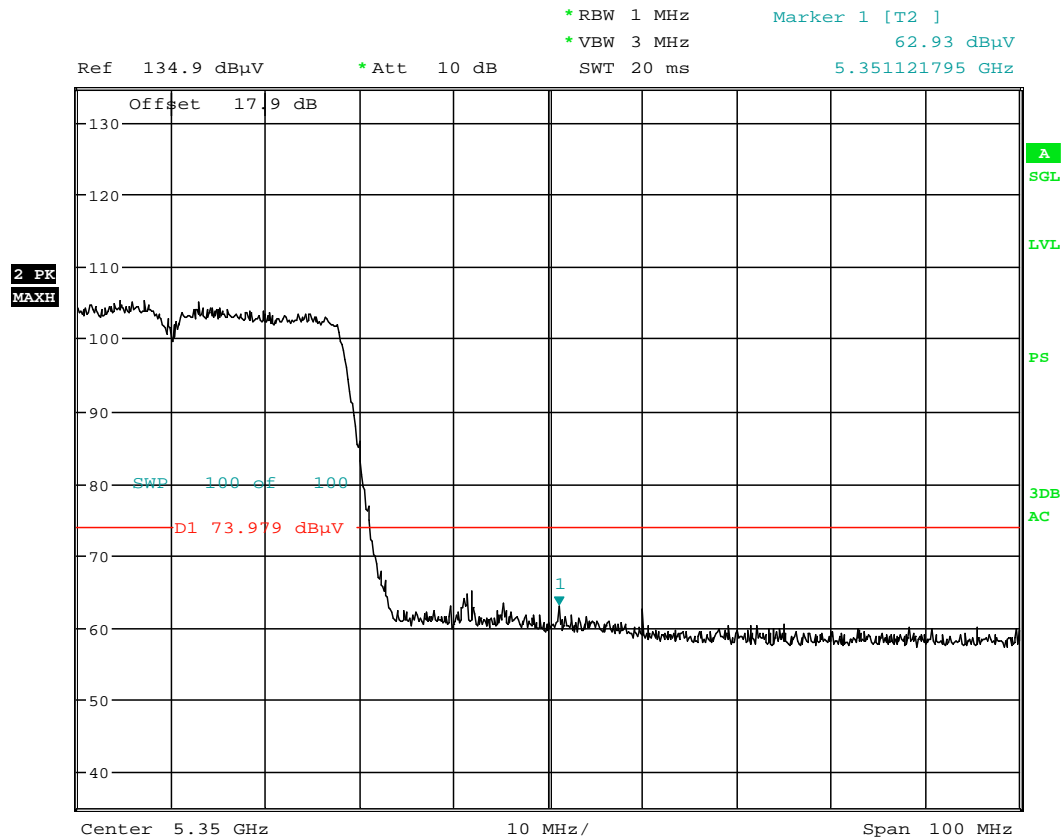


Date: 12.MAY.2014 22:37:29

**Plot 6-184. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**



FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 167 of 184

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



Date: 12.MAY.2014 22:37:56

**Plot 6-185. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMT805M	 <b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT</b> <b>(CERTIFICATION)</b> 		Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet	Page 168 of 184

## Radiated Band Edge Measurements (40MHz BW)

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

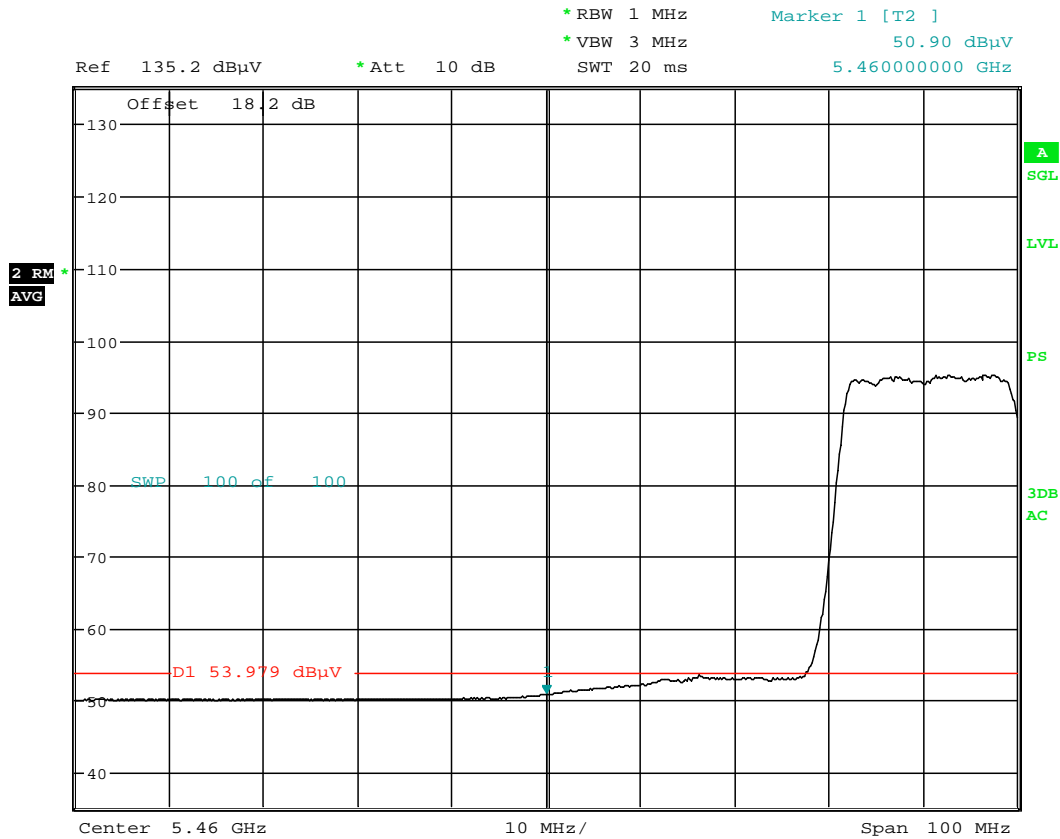
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102

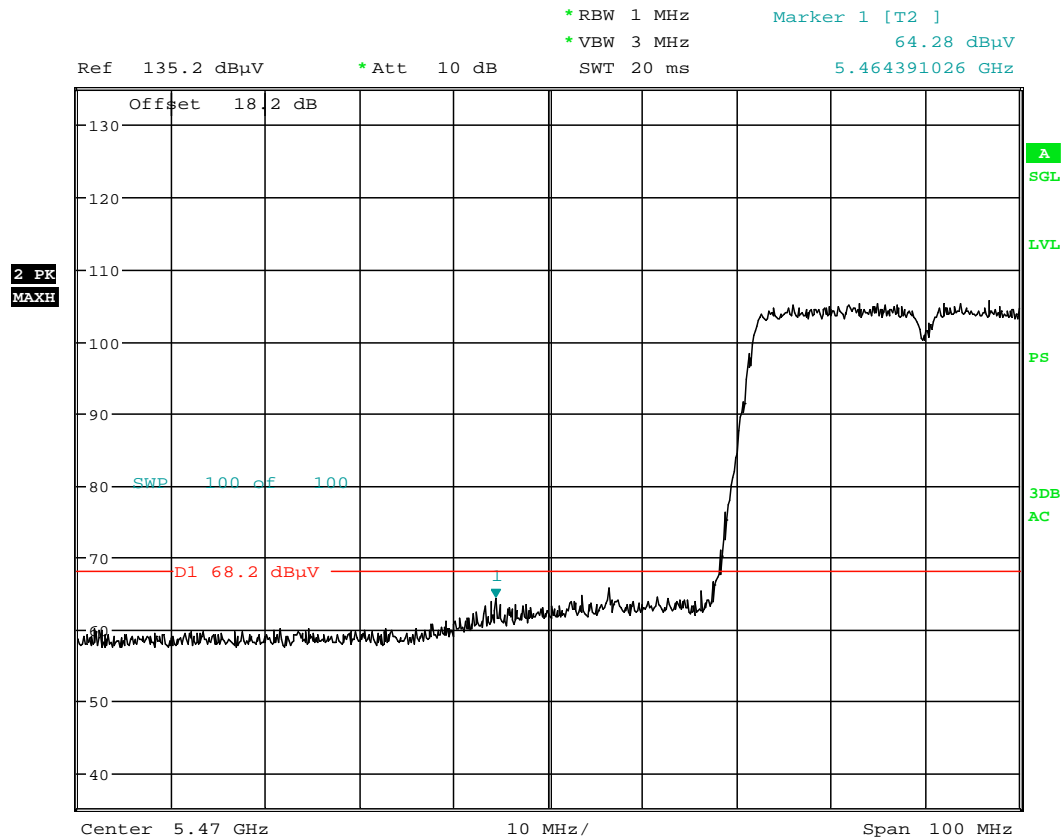


Date: 12.MAY.2014 22:46:18

**Plot 6-186. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 169 of 184

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



Date: 12.MAY.2014 22:46:50

**Plot 6-187. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 170 of 184

## Radiated Band Edge Measurements (40MHz BW)

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

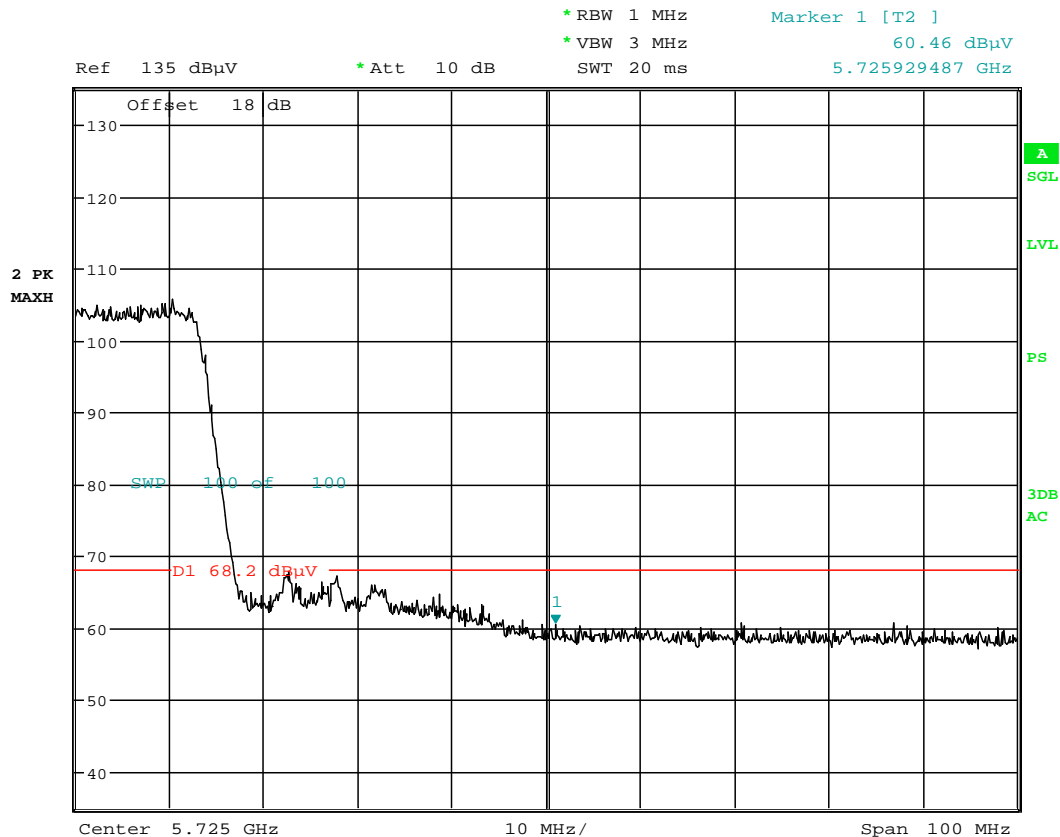
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5670MHz

Channel: 134



Date: 12.MAY.2014 22:53:26

**Plot 6-188. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 171 of 184

## 6.16 MIMO Radiated Band Edge Measurements (80MHz BW)

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

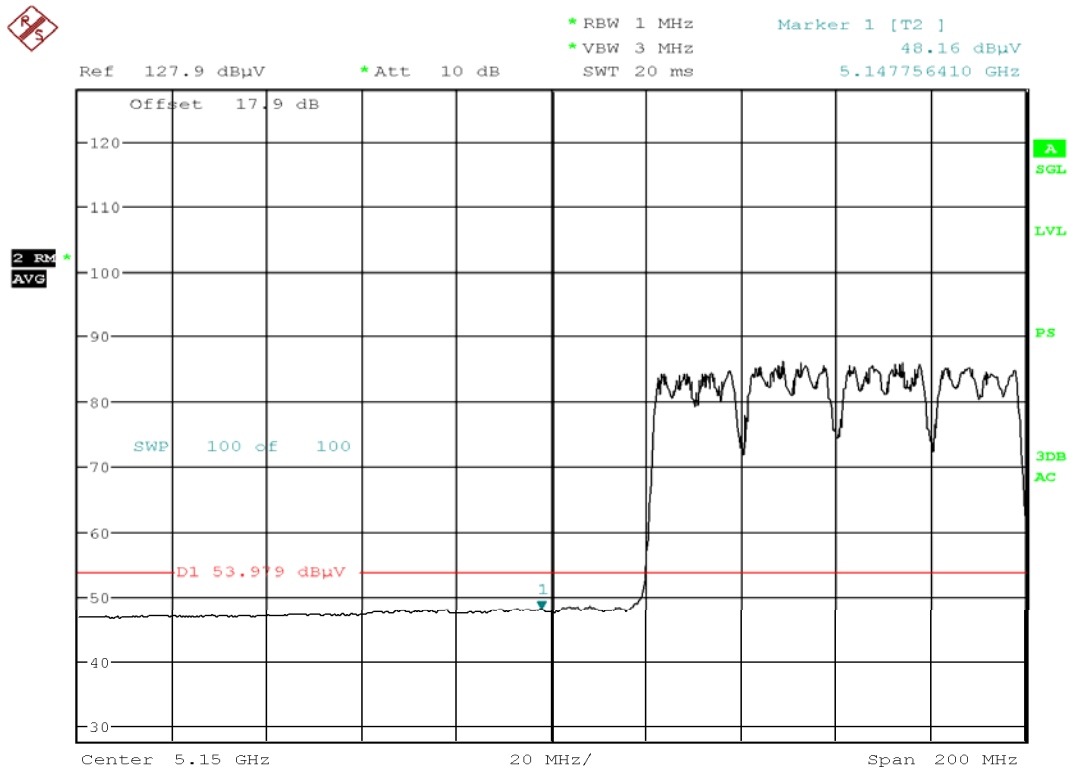
Worst Case Mode: 802.11n (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42



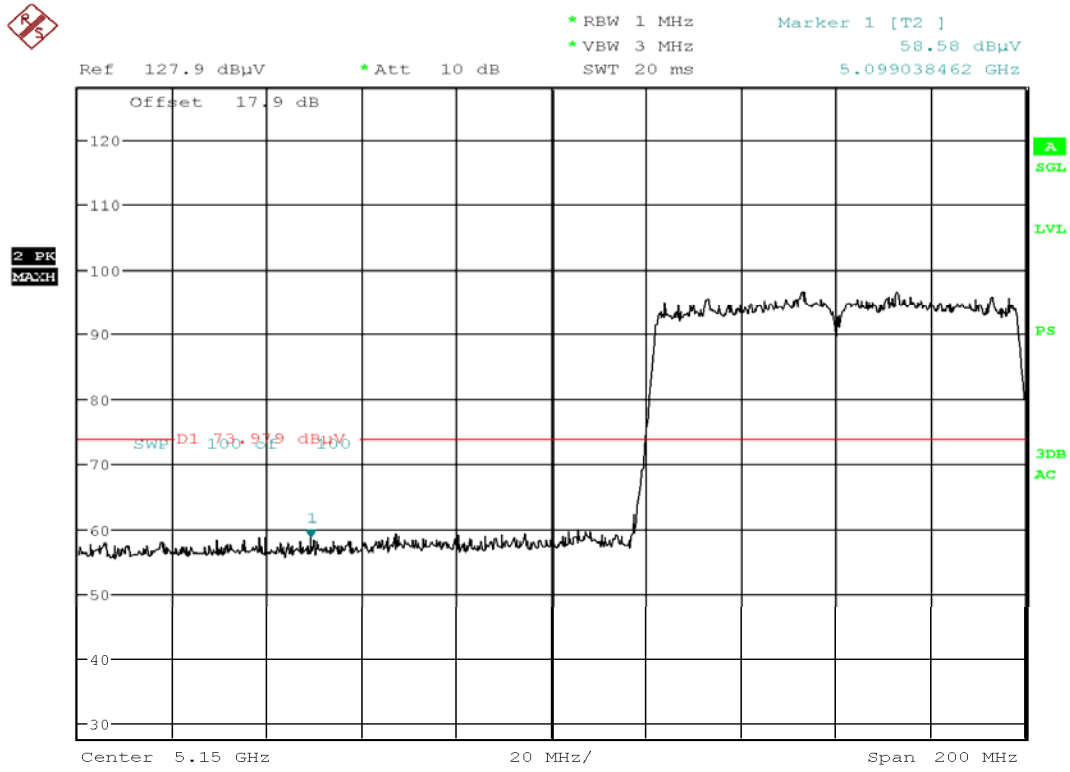
Date: 20.MAY.2014 00:09:06

**Plot 6-189. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 172 of 184



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



Date: 20.MAY.2014 00:09:43

**Plot 6-190. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 173 of 184

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

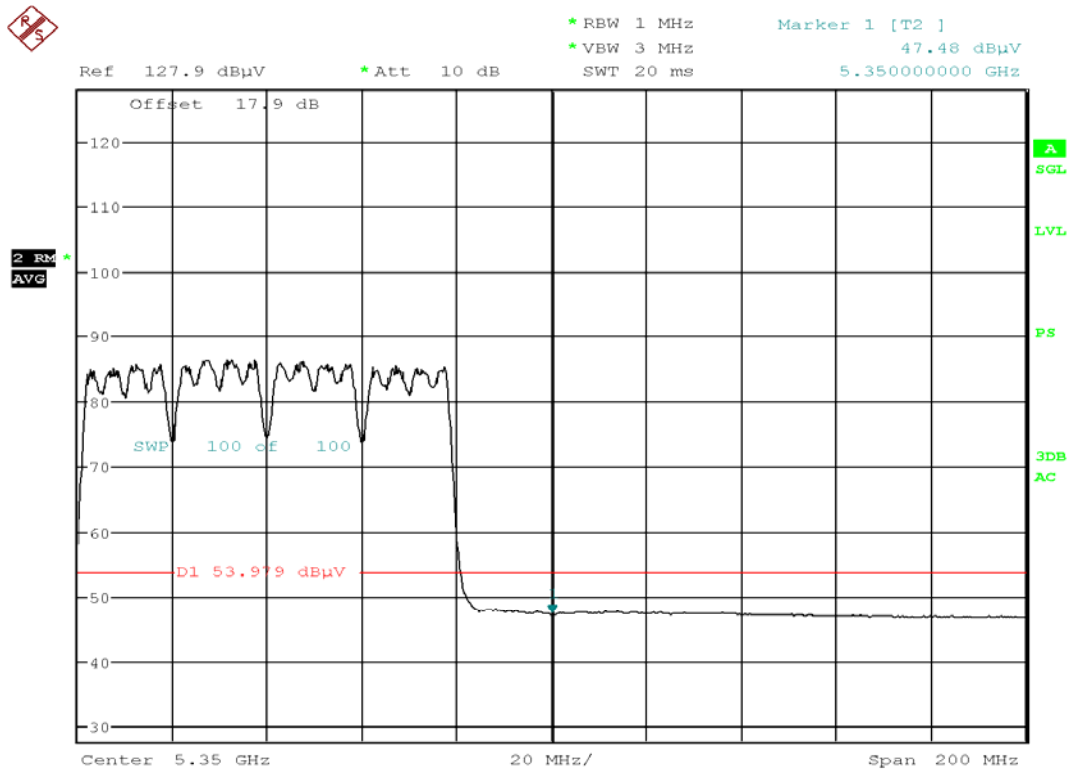
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58

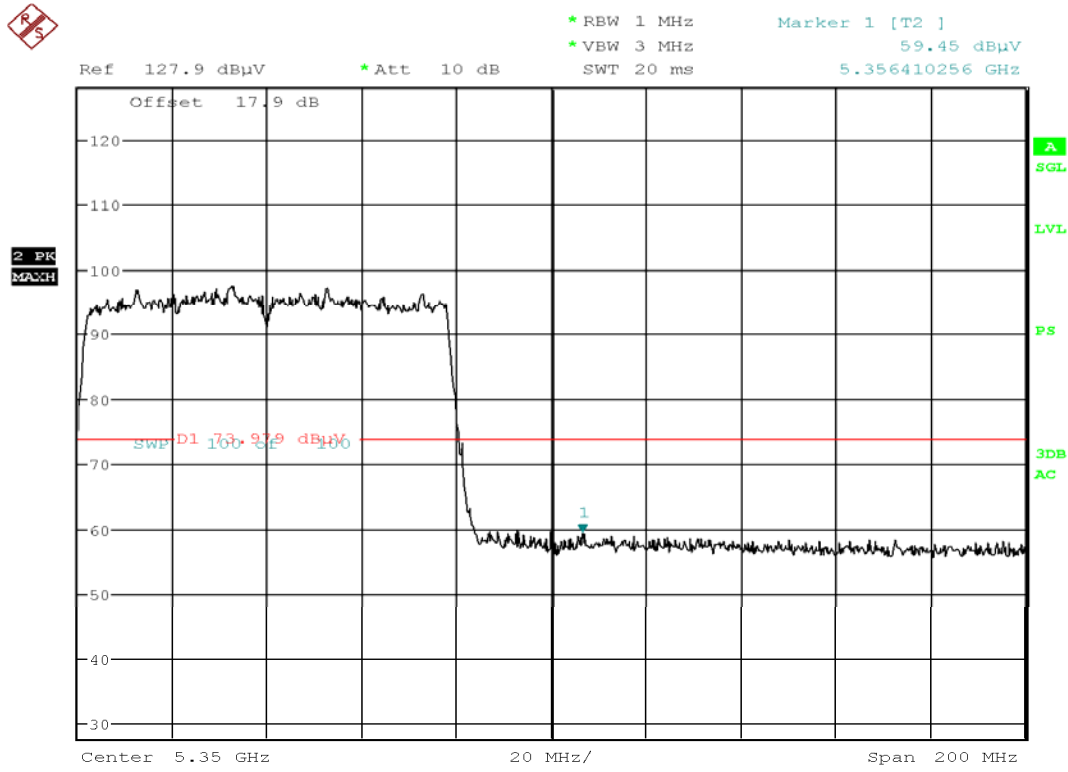


Date: 20.MAY.2014 00:16:00

**Plot 6-191. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 174 of 184

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



Date: 20.MAY.2014 00:16:53

**Plot 6-192. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 175 of 184

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

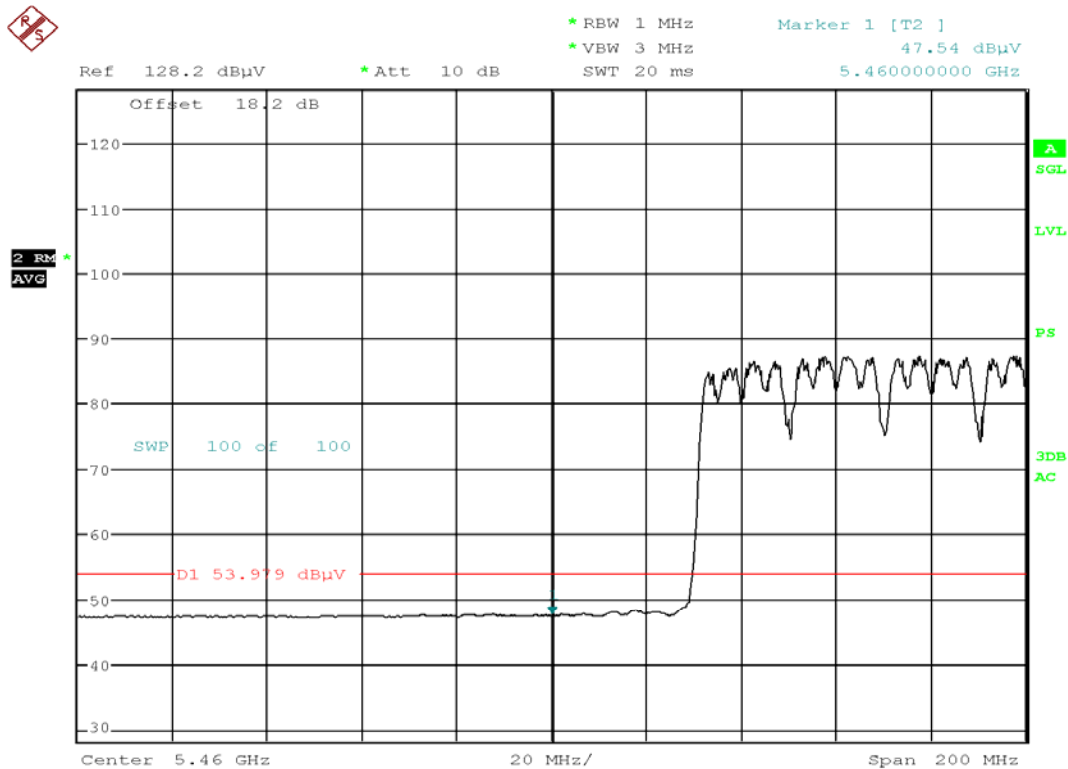
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5530MHz

Channel: 106

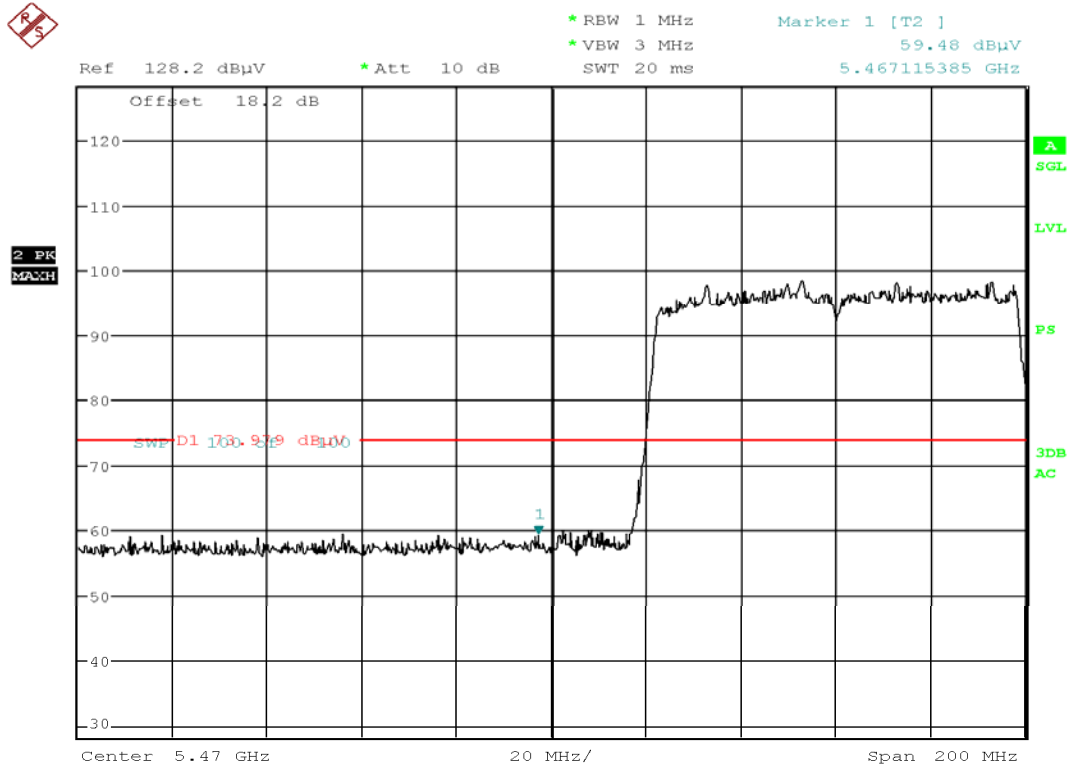


Date: 20.MAY.2014 00:21:35

**Plot 6-193. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)**

FCC ID: A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	<b>SAMSUNG</b>	Reviewed by: Quality Manager
Test Report S/N: 0Y1405010894.A3L	Test Dates: 5/2-5/30/2014	EUT Type: Portable Tablet		Page 176 of 184

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



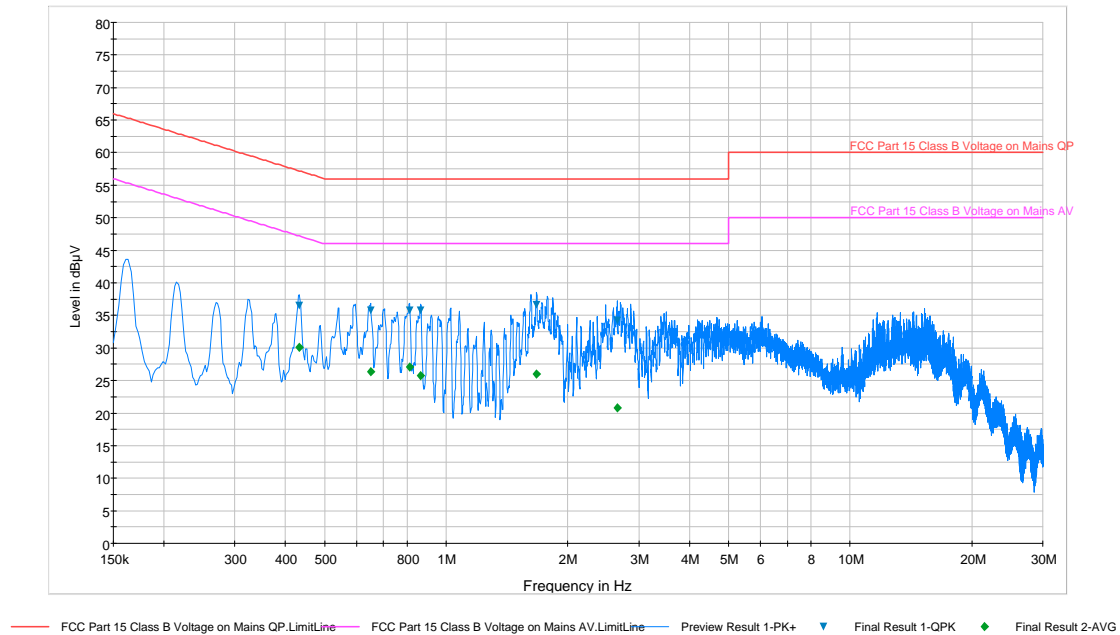
Date: 20.MAY.2014 00:22:12

**Plot 6-194. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)**

<b>FCC ID:</b> A3LSMT805M	<b>PCTEST</b> ENGINEERING LABORATORY, INC.	<b>FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT</b> (CERTIFICATION)	<b>SAMSUNG</b>	<b>Reviewed by:</b> Quality Manager
<b>Test Report S/N:</b> 0Y1405010894.A3L	<b>Test Dates:</b> 5/2-5/30/2014	<b>EUT Type:</b> Portable Tablet		Page 177 of 184

## 6.17 Line-Conducted Test Data

\$15.407



**Plot 6-195. Line Conducted Plot with 802.11a UNII Band 1 (L1)**

Frequency MHz	Line	Corr. dB	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.434	L1	0.1	36.50	57.20	20.70	30.10	47.20	17.10
0.650	L1	0.1	35.70	56.00	20.30	26.40	46.00	19.60
0.812	L1	0.1	35.70	56.00	20.30	27.10	46.00	18.90
0.866	L1	0.1	35.70	56.00	20.30	25.70	46.00	20.30
1.676	L1	0.1	36.60	56.00	19.40	26.00	46.00	20.00
2.654	L1	0.1	34.10	56.00	21.90	20.80	46.00	25.20

**Table 6-54. Line Conducted Data with 802.11a UNII Band 1 (L1)**

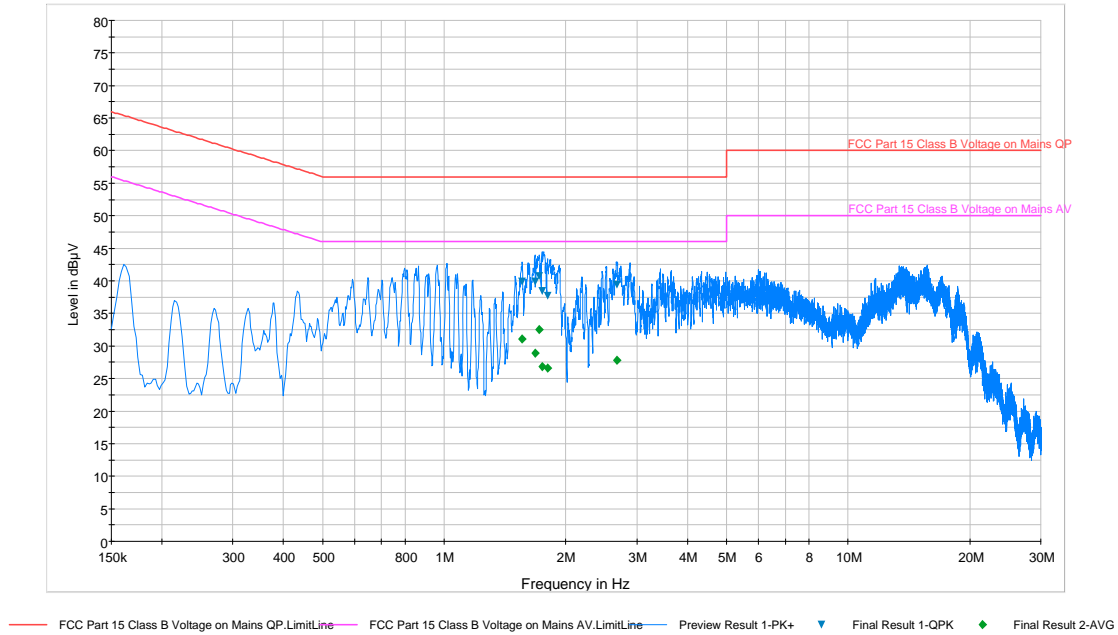
**Notes:**

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

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**Plot 6-196. Line Conducted Plot with 802.11a UNII Band 1 (N)**

Frequency	Line	Corr.	QuasiPeak	Limit	Margin	Average	Limit	Margin
MHz		dB	dBµV	dBµV	dB	dBµV	dBµV	dB
1.561	N	0.2	39.90	56.00	16.10	31.10	46.00	14.90
1.678	N	0.2	39.90	56.00	16.10	28.90	46.00	17.10
1.721	N	0.2	40.70	56.00	15.30	32.50	46.00	13.50
1.748	N	0.2	38.40	56.00	17.60	26.90	46.00	19.10
1.802	N	0.2	37.70	56.00	18.30	26.50	46.00	19.50
2.675	N	0.2	39.40	56.00	16.60	27.80	46.00	18.20

**Table 6-55. Line Conducted Data with 802.11a UNII Band 1 (N)**

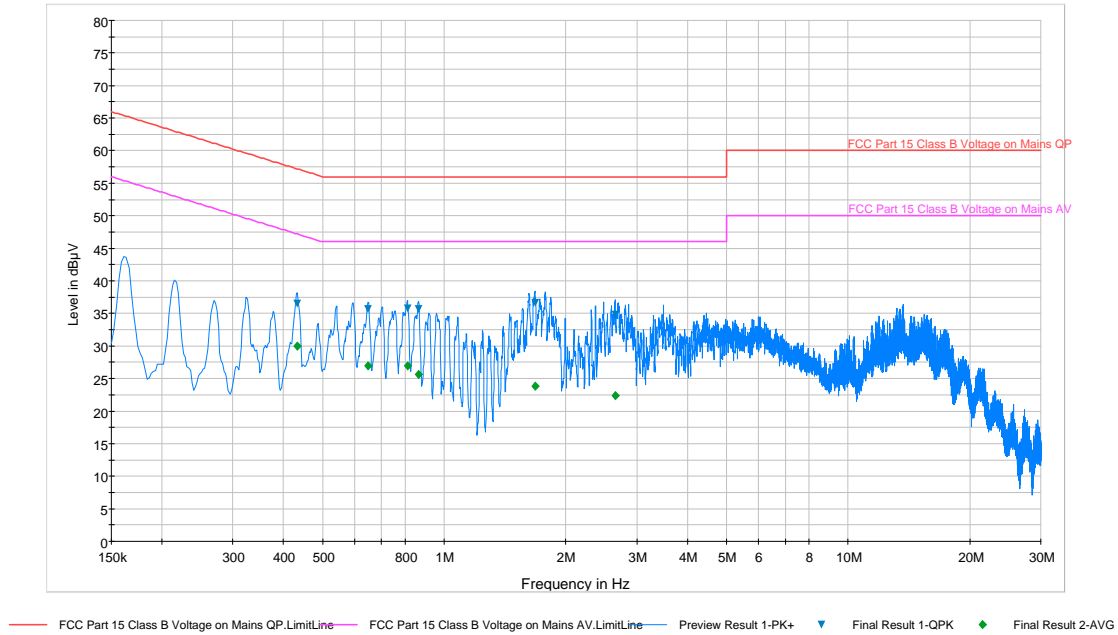
### Notes:

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

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## Line-Conducted Test Data

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**Plot 6-197. Line Conducted Plot with 802.11a UNII Band 2A (L1)**

Frequency MHz	Line	Corr. dB	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.434	L1	0.1	36.40	57.20	20.70	30.00	47.20	17.20
0.647	L1	0.1	35.60	56.00	20.40	26.90	46.00	19.10
0.812	L1	0.1	35.70	56.00	20.30	27.00	46.00	19.00
0.866	L1	0.1	35.70	56.00	20.30	25.60	46.00	20.40
1.678	L1	0.1	36.60	56.00	19.40	23.80	46.00	22.20
2.650	L1	0.1	34.80	56.00	21.20	22.40	46.00	23.60

**Table 6-56. Line Conducted Data with 802.11a UNII Band 2A (L1)**

### Notes:

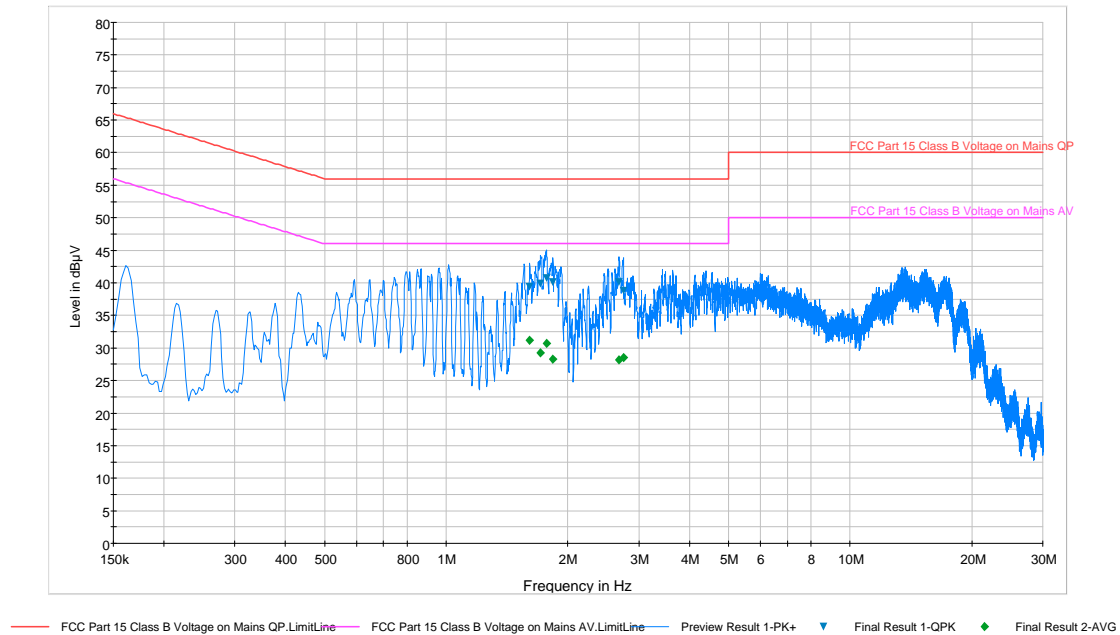
- All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 52. The emissions found were not affected by the choice of channel used during testing.
- The limit for Class B device(s) from 150kHz to 30MHz are 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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## Line-Conducted Test Data

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**Plot 6-198. Line Conducted Plot with 802.11a UNII Band 2A (N)**

Frequency MHz	Line	Corr. dB	QuasiPeak dBμV	Limit dBμV	Margin dB	Average dBμV	Limit dBμV	Margin dB
1.610	N	0.2	39.40	56.00	16.60	31.20	46.00	14.80
1.714	N	0.2	39.80	56.00	16.20	29.20	46.00	16.80
1.770	N	0.2	40.70	56.00	15.30	30.70	46.00	15.30
1.840	N	0.2	40.20	56.00	15.80	28.30	46.00	17.70
2.679	N	0.2	40.10	56.00	15.90	28.20	46.00	17.80
2.744	N	0.2	38.80	56.00	17.20	28.50	46.00	17.50

**Table 6-57. Line Conducted Data with 802.11a UNII Band 2A (N)**

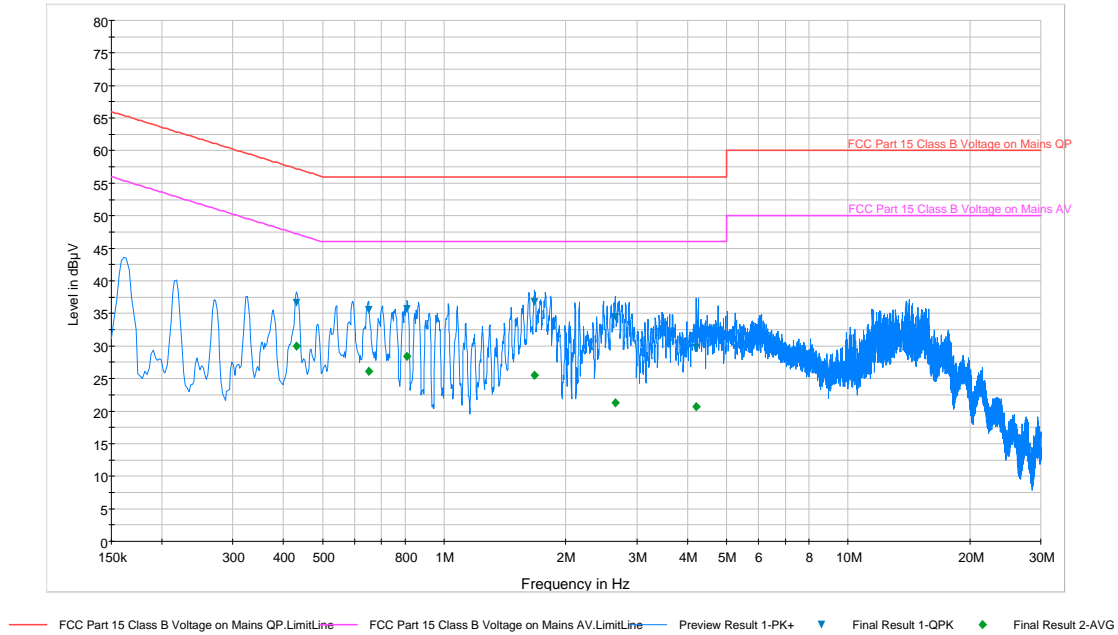
### Notes:

- 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/AV Limit (dBμV) - QP/AV Level (dBμV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

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## Line-Conducted Test Data

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**Plot 6-199. Line Conducted Plot with 802.11a UNII Band 2C (L1)**

Frequency MHz	Line	Corr. dB	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.431	L1	0.1	36.70	57.20	20.60	30.00	47.20	17.20
0.650	L1	0.1	35.60	56.00	20.40	26.10	46.00	19.90
0.809	L1	0.1	35.60	56.00	20.40	28.40	46.00	17.60
1.676	L1	0.1	36.70	56.00	19.30	25.50	46.00	20.50
2.652	L1	0.1	34.40	56.00	21.60	21.20	46.00	24.80
4.205	L1	0.2	29.80	56.00	26.20	20.70	46.00	25.30

**Table 6-58. Line Conducted Plot with 802.11a UNII Band 2C (L1)**

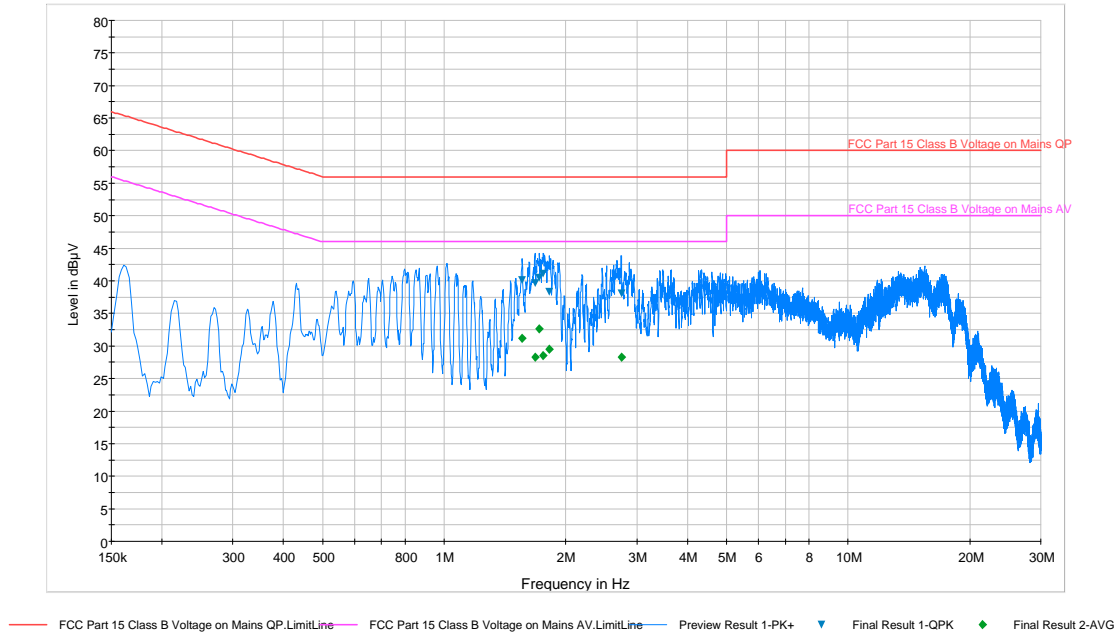
### Notes:

- 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 100. The emissions found were not affected by the choice of channel used during testing.
- The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
- L1 = Phase; N = Neutral
- Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBµV) = QP/AV Analyzer/Receiver Level (dBµV) + Corr. (dB)
- Margin (dB) = QP/AVLimit (dBµV) - QP/AV Level (dBµV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

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## Line-Conducted Test Data

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**Plot 6-200. Line Conducted Plot with 802.11a UNII Band 2C (N)**

Frequency MHz	Line	Corr. dB	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
1.559	N	0.2	40.10	56.00	15.90	31.20	46.00	14.80
1.678	N	0.2	39.70	56.00	16.30	28.30	46.00	17.70
1.721	N	0.2	40.50	56.00	15.50	32.60	46.00	13.40
1.759	N	0.2	41.10	56.00	14.90	28.60	46.00	17.40
1.824	N	0.2	38.30	56.00	17.70	29.50	46.00	16.50
2.744	N	0.2	38.10	56.00	17.90	28.30	46.00	17.70

**Table 6-59. Line Conducted Data with 802.11a UNII Band 2C (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 100. 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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## 7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LSMT805M** is in compliance with Part 15E of the FCC Rules.

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