

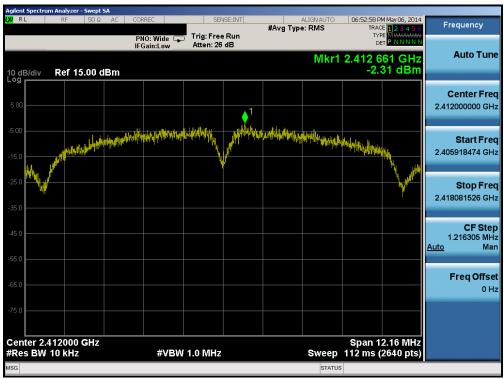
# **Antenna-2 Power Spectral Density Measurements**

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Spectral Density [dBm]	Maximum Permissible Power Density IdBm / 3kHz1	Margin [dB]	Pass / Fail
2412	1	b	1	-2.31	8.00	-10.31	Pass
2437	6	b	1	-2.30	8.00	-10.30	Pass
2462	11	b	1	-2.85	8.00	-10.85	Pass
2412	1	g	6	-7.48	8.00	-15.48	Pass
2437	6	g	6	-6.75	8.00	-14.75	Pass
2462	11	g	6	-6.93	8.00	-14.93	Pass
2412	1	n	6.5/7.2 (MCS0)	-7.04	8.00	-15.04	Pass
2437	6	n	6.5/7.2 (MCS0)	-5.88	8.00	-13.88	Pass
2462	11	n	6.5/7.2 (MCS0)	-5.96	8.00	-13.96	Pass
5745	149	а	6	-10.53	8.00	-18.53	Pass
5785	157	а	6	-11.27	8.00	-19.27	Pass
5825	165	а	6	-11.17	8.00	-19.17	Pass
5745	149	n (20MHz)	6.5/7.2 (MCS0)	-11.59	8.00	-19.59	Pass
5785	157	n (20MHz)	6.5/7.2 (MCS0)	-10.56	8.00	-18.56	Pass
5825	165	n (20MHz)	6.5/7.2 (MCS0)	-11.07	8.00	-19.07	Pass
5755	151	n (40MHz)	13.5/15 (MCS0)	-13.25	8.00	-21.25	Pass
5795	159	n (40MHz)	13.5/15 (MCS0)	-12.96	8.00	-20.96	Pass
5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-16.20	8.00	-24.20	Pass

Table 6-29. Conducted Power Density Measurements

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-55. Power Spectral Density Plot (802.11b - Ch. 1)



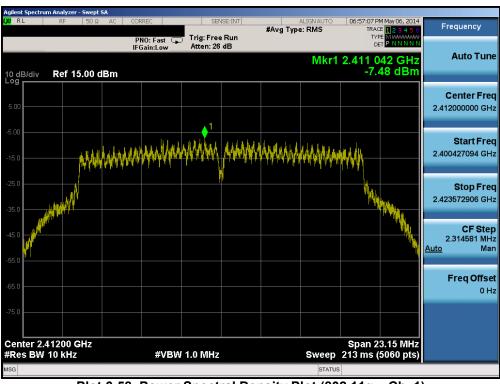
Plot 6-56. Power Spectral Density Plot (802.11b - Ch. 6)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 54 of 121
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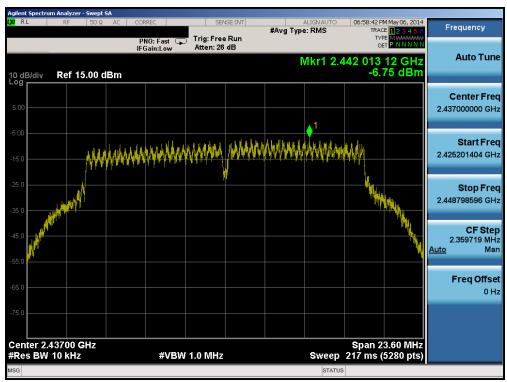
Plot 6-57. Power Spectral Density Plot (802.11b - Ch. 11)



Plot 6-58. Power Spectral Density Plot (802.11g - Ch. 1)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 55 of 121
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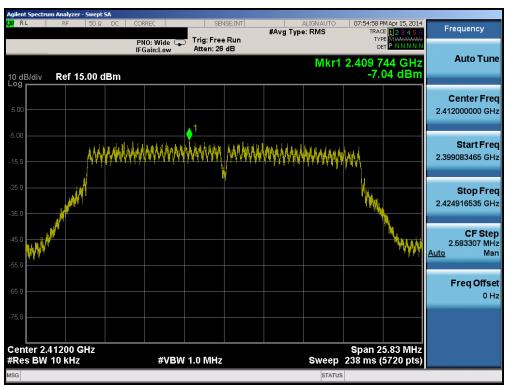
Plot 6-59. Power Spectral Density Plot (802.11g - Ch. 6)



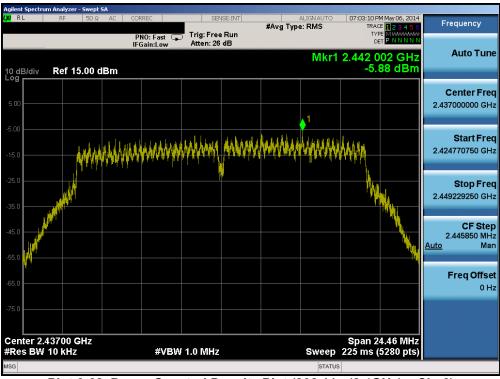
Plot 6-60. Power Spectral Density Plot (802.11g - Ch. 11)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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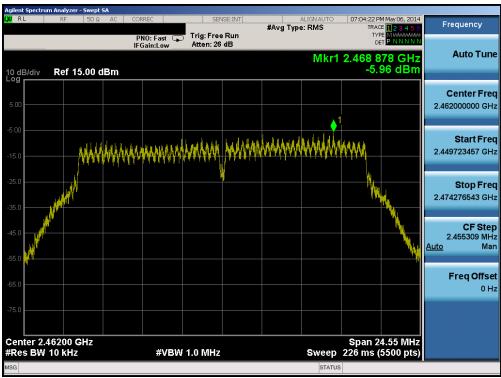
Plot 6-61. Power Spectral Density Plot (802.11n (2.4GHz) - Ch. 1)



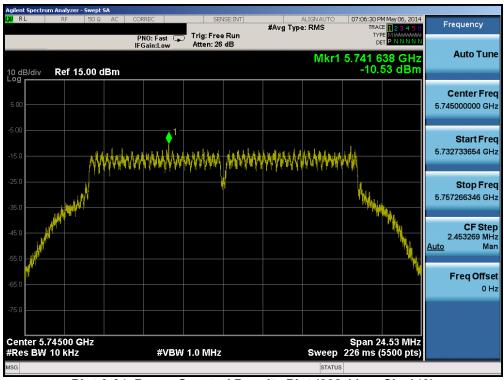
Plot 6-62. Power Spectral Density Plot (802.11n (2.4GHz) - Ch. 6)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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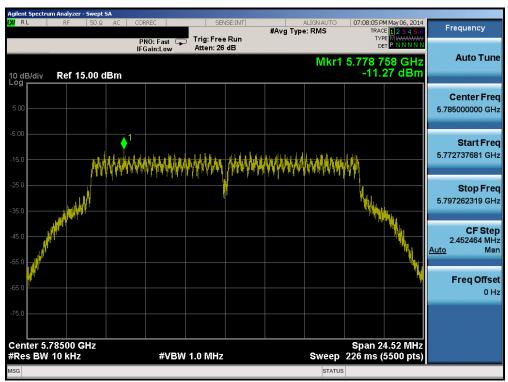
Plot 6-63. Power Spectral Density Plot (802.11n (2.4GHz) - Ch. 11)



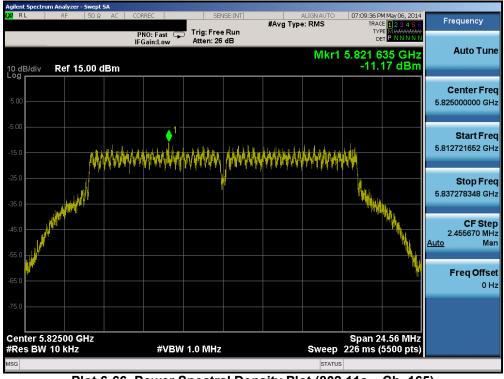
Plot 6-64. Power Spectral Density Plot (802.11a - Ch. 149)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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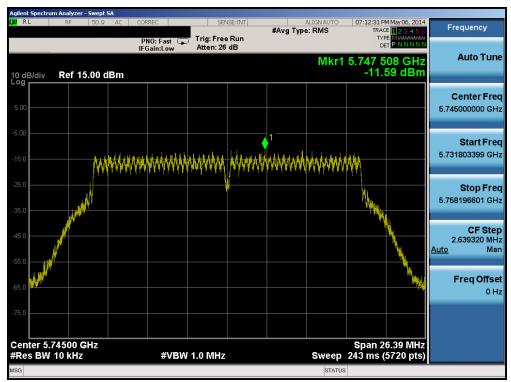
Plot 6-65. Power Spectral Density Plot (802.11a - Ch. 157)



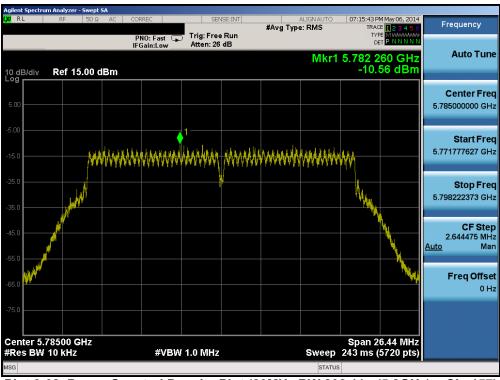
Plot 6-66. Power Spectral Density Plot (802.11a - Ch. 165)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:		Dogo 50 of 121	
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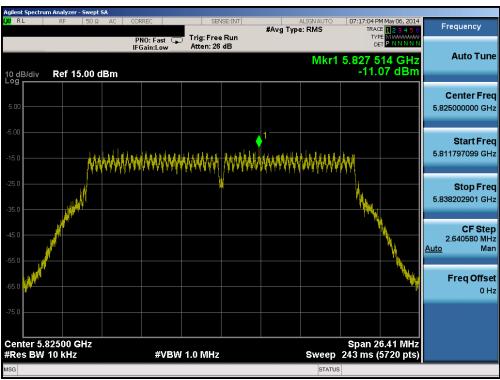
Plot 6-67. Power Spectral Density Plot (20MHz BW 802.11n (5.8GHz) - Ch. 149)



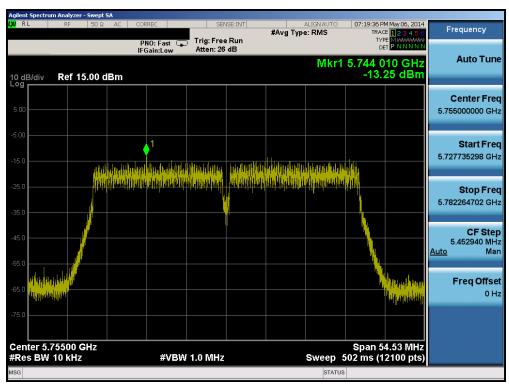
Plot 6-68. Power Spectral Density Plot (20MHz BW 802.11n (5.8GHz) - Ch. 157)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 60 of 121
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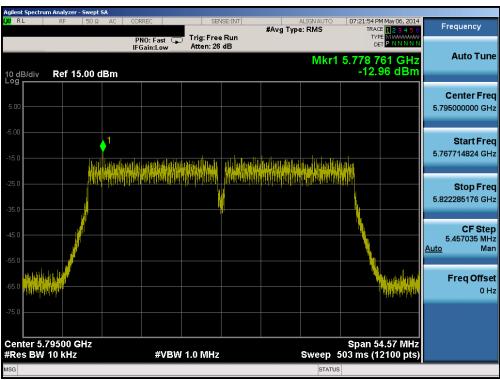
Plot 6-69. Power Spectral Density Plot (20MHz BW 802.11n (5.8GHz) - Ch. 165)



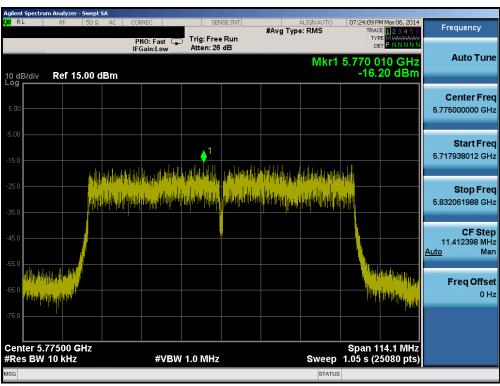
Plot 6-70. Power Spectral Density Plot (40MHz BW 802.11n (5.8GHz) - Ch. 151)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-71. Power Spectral Density Plot (40MHz BW 802.11n (5.8GHz) - Ch. 159)



Plot 6-72. Power Spectral Density Plot (80MHz BW 802.11ac (5.8GHz) - Ch. 155)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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## **MIMO Power Spectral Density Measurement**

Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	ANT 1 Power Spectral Density [dBm]	ANT 2 Power Spectral Density [dBm]	Summed MIMO Power Spectral Density [dBm]	Maximum Permissible Power Density IdBm / 3kHz1	Margin [dB]	Pass / Fail
2412	1	n	6.5/7.2 (MCS0)	-6.35	-6.65	-3.49	8.00	-11.49	Pass
2437	6	n	6.5/7.2 (MCS0)	-7.57	-5.88	-3.63	8.00	-11.63	Pass
2462	11	n	6.5/7.2 (MCS0)	-7.28	-5.96	-3.56	8.00	-11.56	Pass
5745	149	n (20MHz)	6.5/7.2 (MCS0)	-8.69	-11.59	-6.89	8.00	-14.89	Pass
5785	157	n (20MHz)	6.5/7.2 (MCS0)	-8.62	-10.56	-6.47	8.00	-14.47	Pass
5825	165	n (20MHz)	6.5/7.2 (MCS0)	-8.19	-11.07	-6.38	8.00	-14.38	Pass
5755	151	n (40MHz)	13.5/15 (MCS0)	-12.29	-13.25	-9.73	8.00	-17.73	Pass
5795	159	n (40MHz)	13.5/15 (MCS0)	-12.46	-12.96	-9.69	8.00	-17.69	Pass
5775	155	ac (80MHz)	29.3/32.5 (MCS0)	-14.70	-16.20	-12.37	8.00	-20.37	Pass

**Table 6-30.MIMO Conducted Power 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 2412MHz for 802.11n mode the average conducted power spectral density was found to be -6.35dBm for Antenna 1 and -6.65dBm for Antenna 2.

$$(-6.35dBm + -6.65dBm) = (0.232mW + 0.216mW) = 0.448mW = -3.49dBm$$

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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## Conducted Emissions at the Band Edge §15.247(d)

## **Test Overview and Limit**

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots at the band edge, the EUT was set at a data rate of 1Mbps for "b" mode, 6 Mbps for "g" mode, 6 Mbps for "a" mode, 6.5/7.2 Mbps for 20 MHz BW "n" mode, 13.5/15 Mbps for 40MHz "n", and 29.3/32.5Mbps for 80MHz "ac" mode as these settings produced the worst-case emissions.

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the PSD procedure (Section 9.1).

#### **Test Procedure Used**

KDB 558074 v03r01 - Section 11.3

## **Test Settings**

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW = 100kHz
- 4. VBW = 1MHz
- 5. Detector = Peak
- Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = max hold
- 8. Sweep time = auto couple
- 9. The trace was allowed to stabilize

#### **Test Setup**

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

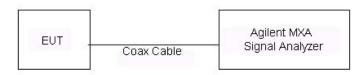


Figure 6-5. Test Instrument & Measurement Setup

### **Test Notes**

#### None

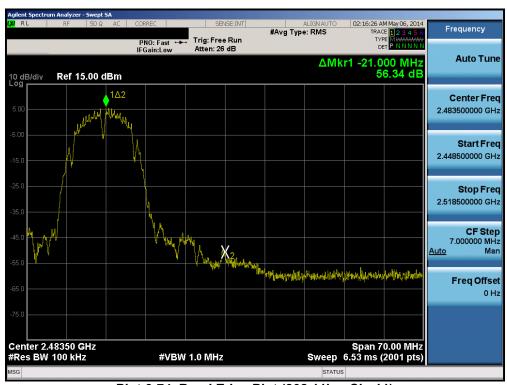
FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager			
Test Report S/N:	Test Dates:	EUT Type:		Dogo 64 of 101			
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## **Antenna-1 Conducted Emissions at the Band Edge**



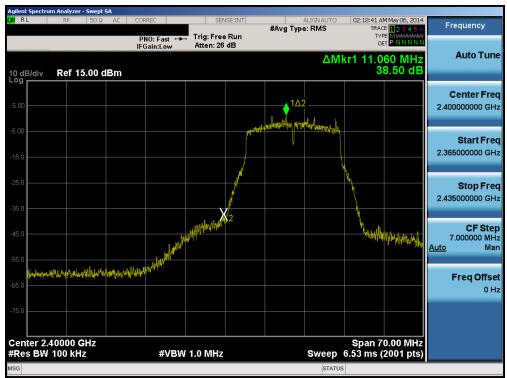
Plot 6-73. Band Edge Plot (802.11b - Ch. 1)



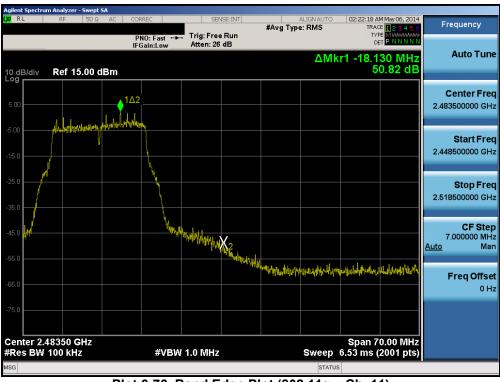
Plot 6-74. Band Edge Plot (802.11b - Ch. 11)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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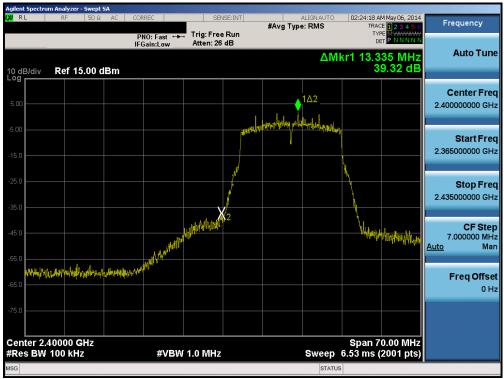
Plot 6-75. Band Edge Plot (802.11g- Ch. 1)



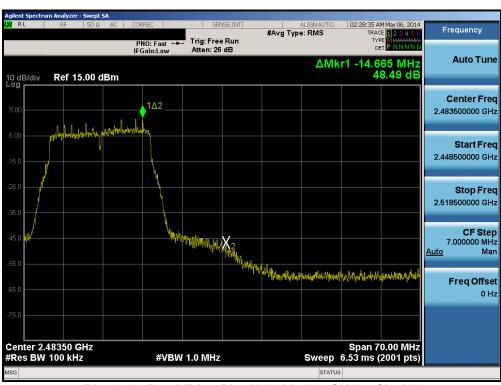
Plot 6-76. Band Edge Plot (802.11g - Ch. 11)

FCC ID: A3LSMT805M	PCTEST	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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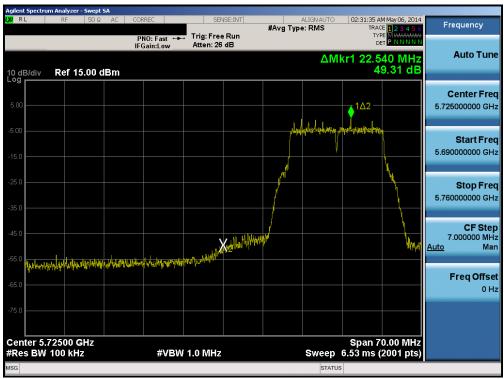
Plot 6-77. Band Edge Plot (802.11n (2.4GHz) - Ch. 1)



Plot 6-78. Band Edge Plot (802.11n (2.4GHz) - Ch. 11)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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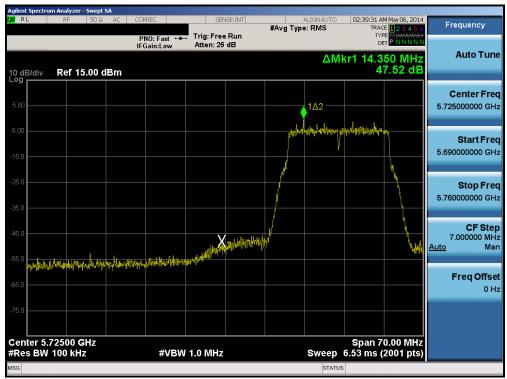
Plot 6-79. Band Edge Plot (802.11a - Ch. 149)



Plot 6-80. Band Edge Plot (802.11a - Ch. 165)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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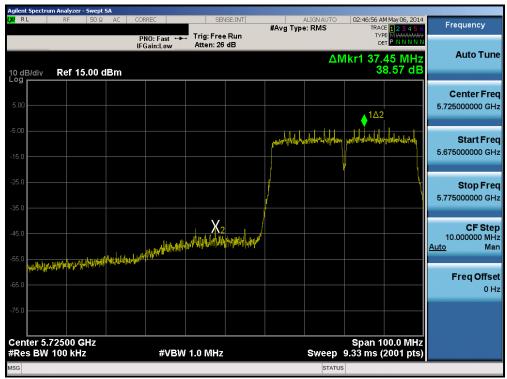
Plot 6-81. Band Edge Plot (20MHz BW 802.11n (5.8GHz) - Ch. 149)



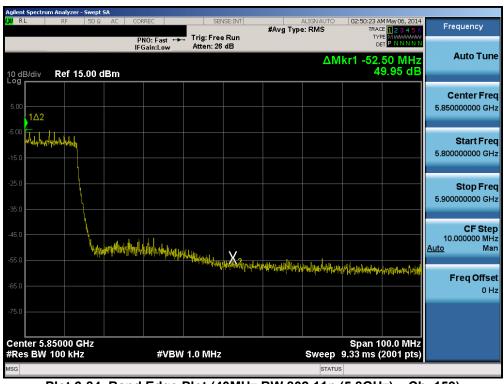
Plot 6-82. Band Edge Plot (20MHz BW 802.11n (5.8GHz) - Ch. 165)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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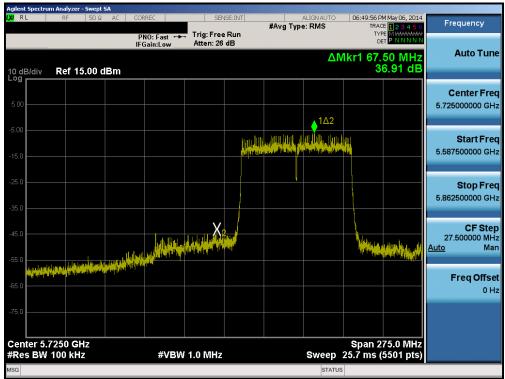
Plot 6-83. Band Edge Plot (40MHz BW 802.11n (5.8GHz) - Ch. 151)



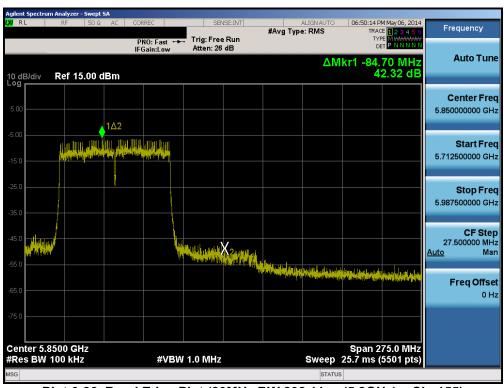
Plot 6-84. Band Edge Plot (40MHz BW 802.11n (5.8GHz) - Ch. 159)

FCC ID: A3LSMT805M	PCTEST	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-85. Band Edge Plot (80MHz BW 802.11ac (5.8GHz) - Ch. 155)



Plot 6-86. Band Edge Plot (80MHz BW 802.11ac (5.8GHz) - Ch. 155)

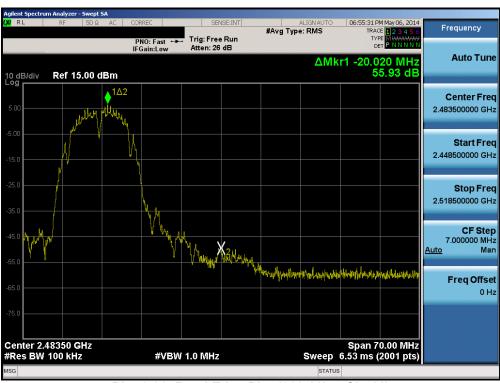
FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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## **Antenna-2 Conducted Emissions at the Band Edge**



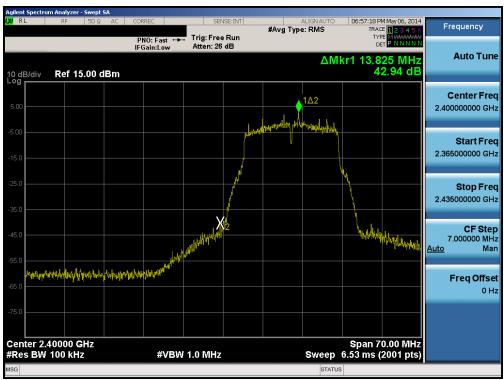
Plot 6-87. Band Edge Plot (802.11b - Ch. 1)



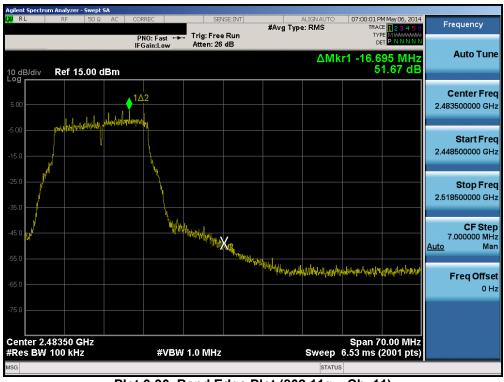
Plot 6-88. Band Edge Plot (802.11b - Ch. 11)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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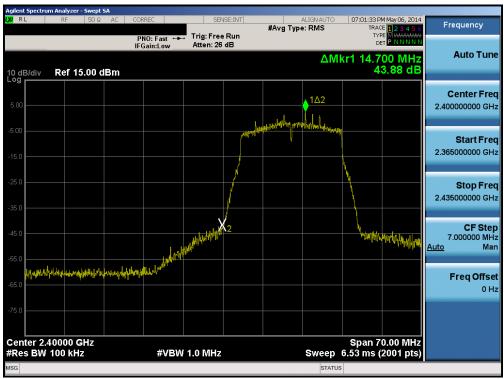
Plot 6-89. Band Edge Plot (802.11g- Ch. 1)



Plot 6-90. Band Edge Plot (802.11g - Ch. 11)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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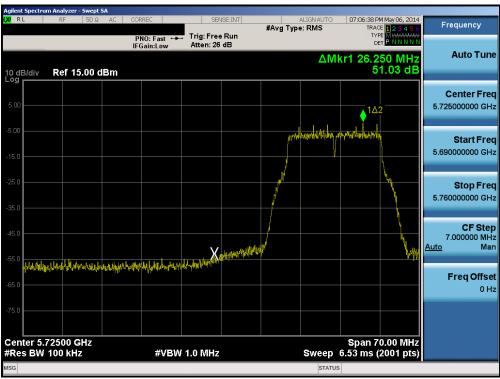
Plot 6-91. Band Edge Plot (802.11n (2.4GHz) - Ch. 1)



Plot 6-92. Band Edge Plot (802.11n (2.4GHz) - Ch. 11)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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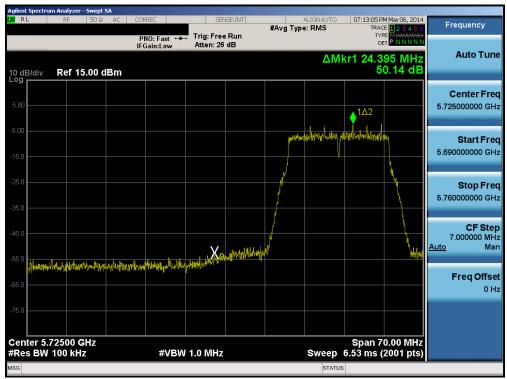
Plot 6-93. Band Edge Plot (802.11a - Ch. 149)



Plot 6-94. Band Edge Plot (802.11a - Ch. 165)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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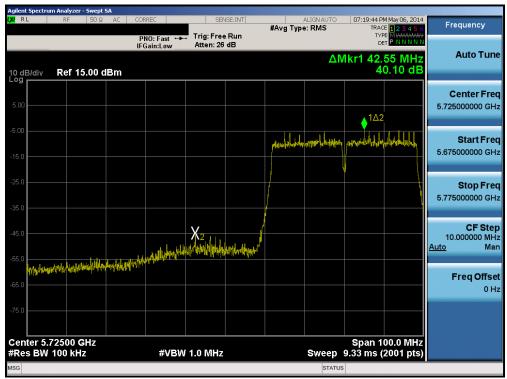
Plot 6-95. Band Edge Plot (20MHz BW 802.11n (5.8GHz) - Ch. 149)



Plot 6-96. Band Edge Plot (20MHz BW 802.11n (5.8GHz) - Ch. 165)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-97. Band Edge Plot (40MHz BW 802.11n (5.8GHz) - Ch. 151)



Plot 6-98. Band Edge Plot (40MHz BW 802.11n (5.8GHz) - Ch. 159)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-99. Band Edge Plot (80MHz BW 802.11ac (5.8GHz) - Ch. 155)



Plot 6-100. Band Edge Plot (80MHz BW 802.11ac (5.8GHz) - Ch. 155)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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## **Conducted Spurious Emissions** §15.247(d)

### **Test Overview and Limit**

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for "b", "g", "a", "n", and "ac" modes. The worst case spurious emissions for the 2.4GHz band were found while transmitting in "b" mode at 1 Mbps and are shown in the plots below. The worst case spurious emissions for the 5.8GHz band were found while transmitting in "a" mode at 6 Mbps and are shown in the plots below.

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.1 of KDB 558074 v03r01.

### **Test Procedure Used**

KDB 558074 v03r01 - Section 11.3

## **Test Settings**

- 1. Start frequency was set to 30MHz and stop frequency was set to 25GHz for 2.4GHz frequencies and 40GHz for 5GHz frequencies (separated into two plots per channel)
- 2. RBW = 1MHz
- VBW = 3MHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The trace was allowed to stabilize

#### **Test Setup**

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

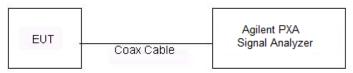


Figure 6-6. Test Instrument & Measurement Setup

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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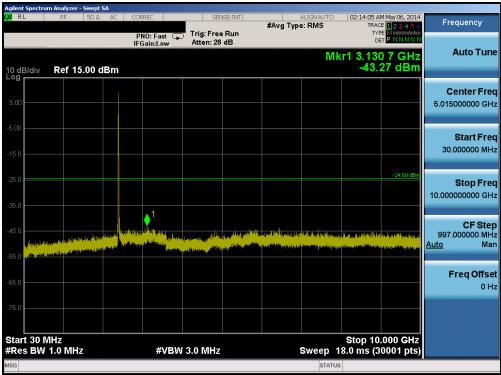
## **Test Notes**

- 1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
- 2. The display line shown in the following plots denotes the limit at 30dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 30dB below the level of the fundamental in a 1MHz bandwidth.
- 3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.

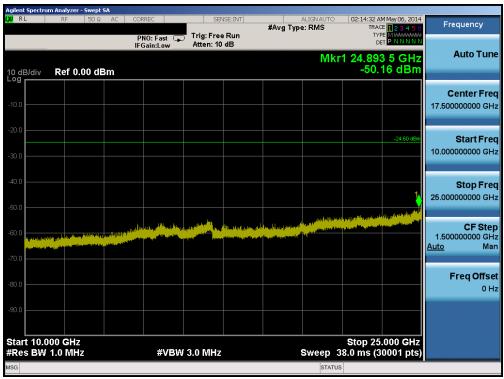
FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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## **Antenna-1 Conducted Spurious Emissions**



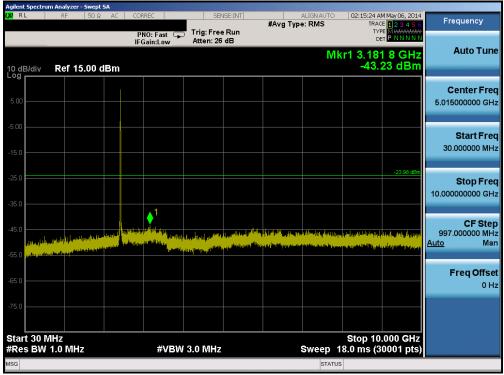
Plot 6-101. Conducted Spurious Plot (802.11b - Ch. 1)



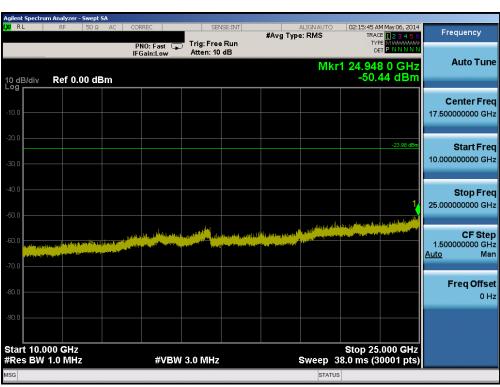
Plot 6-102. Conducted Spurious Plot (802.11b - Ch. 1)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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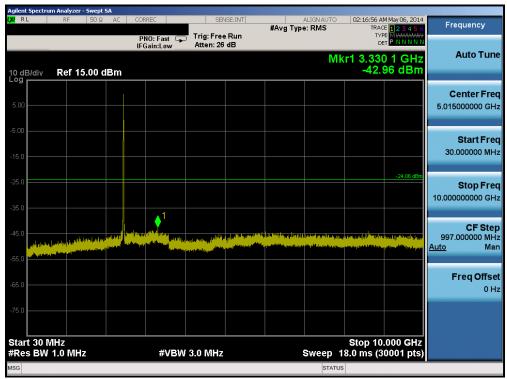
Plot 6-103. Conducted Spurious Plot (802.11b - Ch. 6)



Plot 6-104. Conducted Spurious Plot (802.11b - Ch. 6)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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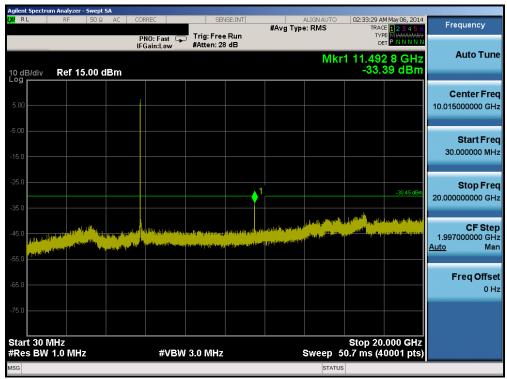
Plot 6-105. Conducted Spurious Plot (802.11b - Ch. 11)



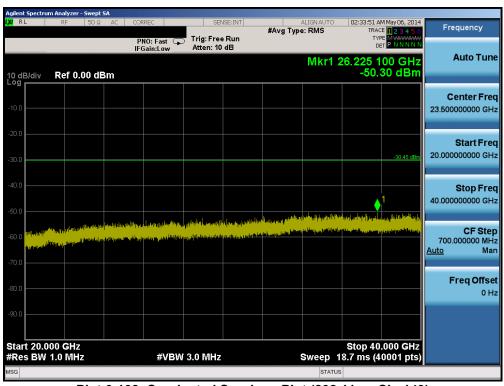
Plot 6-106. Conducted Spurious Plot (802.11b - Ch. 11)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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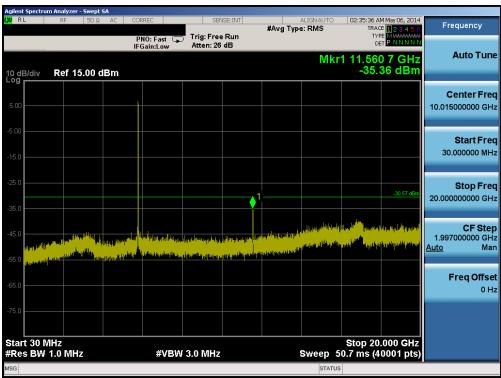
Plot 6-107. Conducted Spurious Plot (802.11a - Ch. 149)



Plot 6-108. Conducted Spurious Plot (802.11a - Ch. 149)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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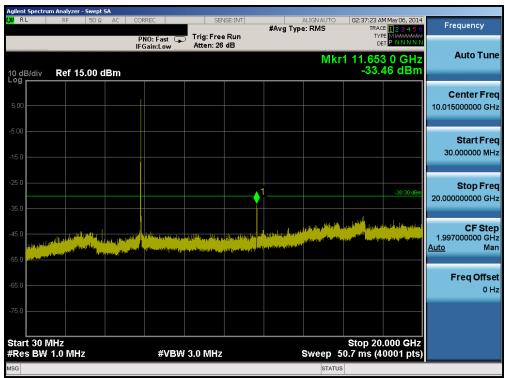
Plot 6-109. Conducted Spurious Plot (802.11a - Ch. 157)



Plot 6-110. Conducted Spurious Plot (802.11a - Ch. 157)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-111. Conducted Spurious Plot (802.11a - Ch. 165)

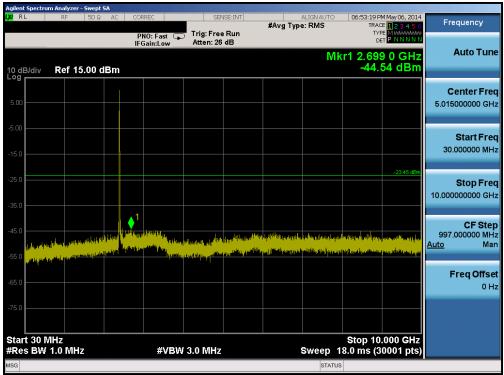


Plot 6-112. Conducted Spurious Plot (802.11a - Ch. 165)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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## **Antenna-2 Conducted Spurious Emissions**



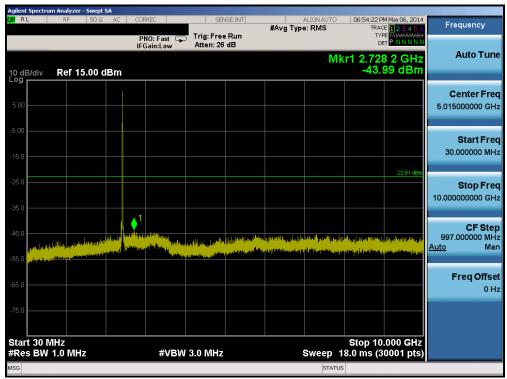
Plot 6-113. Conducted Spurious Plot (802.11b - Ch. 1)



Plot 6-114. Conducted Spurious Plot (802.11b - Ch. 1)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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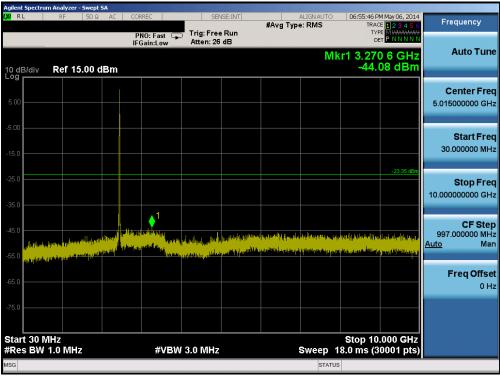
Plot 6-115. Conducted Spurious Plot (802.11b - Ch. 6)



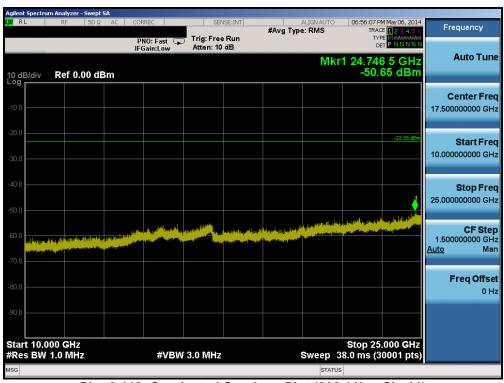
Plot 6-116. Conducted Spurious Plot (802.11b - Ch. 6)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager		
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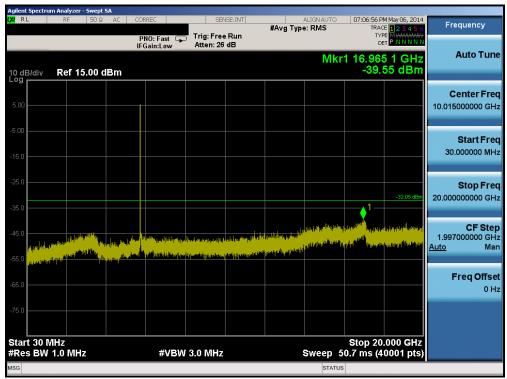
Plot 6-117. Conducted Spurious Plot (802.11b - Ch. 11)



Plot 6-118. Conducted Spurious Plot (802.11b - Ch. 11)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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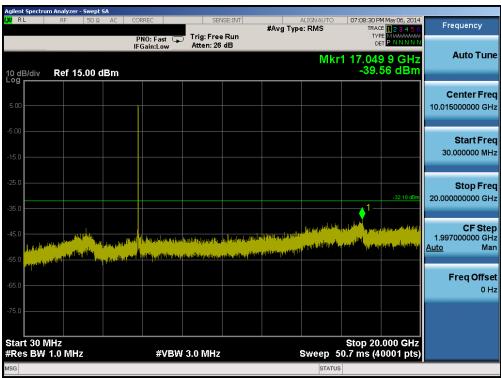
Plot 6-119. Conducted Spurious Plot (802.11a - Ch. 149)



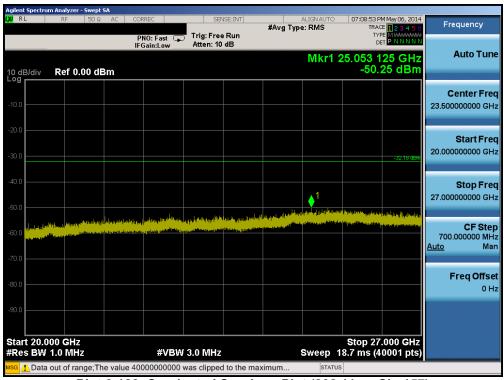
Plot 6-120. Conducted Spurious Plot (802.11a - Ch. 149)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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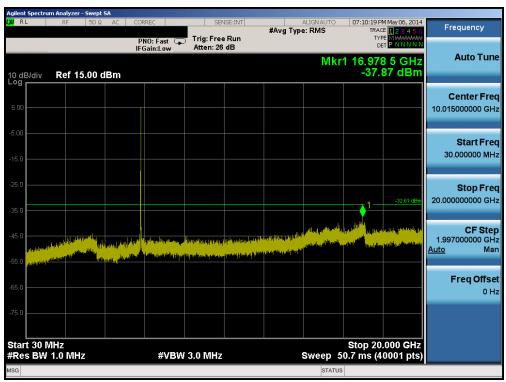
Plot 6-121. Conducted Spurious Plot (802.11a - Ch. 157)



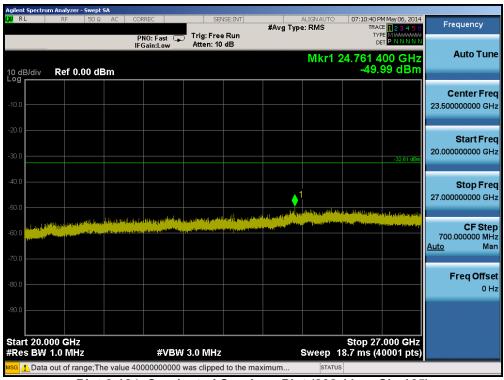
Plot 6-122. Conducted Spurious Plot (802.11a - Ch. 157)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-123. Conducted Spurious Plot (802.11a - Ch. 165)



Plot 6-124. Conducted Spurious Plot (802.11a - Ch. 165)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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# 6.7 Radiated Spurious Emission Measurements §15.247(d) §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 maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 6-31 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 6-31. Radiated Limits

# **Test Procedures Used**

KDB 558074 v03r01 - Section 12.1, 12.7

## **Test Settings**

#### Average Field Strength Measurements per Section 12.2.5.1 of KDB 558074 v03r01

- 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 > 2 x span/RBW)
- 6. Sweep time = auto
- 7. Trace (RMS) averaging was performed over at least 100 traces

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# Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 v03r01

- 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

## **Test Setup**

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

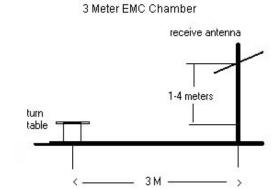


Figure 6-7. Test Instrument & Measurement Setup

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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#### **Test Notes**

- The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 v03r01 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
- 2. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 6-10.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- 4. This unit was tested with its standard battery.
- 5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.

### **Sample Calculations**

#### **Determining Spurious Emissions Levels**

- Field Strength Level [dBuV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- o AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- o Margin [dB] = Field Strength Level [dB $\mu$ V/m] Limit [dB $\mu$ 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 §15.247(d) §15.205 & §15.209

Worst Case Mode: 802.11b

Worst Case Transfer Rate: 1 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz

Channel: 01

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]
4824.00	-110.97	Avg	Н	H2	41.58	37.62	53.98	-16.36
4824.00	-98.09	Peak	Н	H2	41.58	50.50	73.98	-23.48
12060.00	-111.23	Avg	Н	H2	49.05	44.82	53.98	-9.16
12060.00	-99.08	Peak	Н	H2	49.05	56.97	73.98	-17.01

### **Table 6-32. Radiated Measurements**

Worst Case Mode: 802.11b

Worst Case Transfer Rate: 1 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2437MHz

Channel: 06

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]
4874.00	-111.17	Avg	Н	H2	41.75	37.58	53.98	-16.40
4874.00	-97.93	Peak	Н	H2	41.75	50.82	73.98	-23.16
7311.00	-110.32	Avg	Н	H2	43.78	40.46	53.98	-13.52
7311.00	-99.62	Peak	Н	H2	43.78	51.16	73.98	-22.82
12185.00	-110.77	Avg	Н	H2	49.11	45.35	53.98	-8.63
12185.00	-99.44	Peak	Н	H2	49.11	56.68	73.98	-17.30

Table 6-33. Radiated Measurements

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Worst Case Mode: 802.11b Worst Case Transfer Rate: 1 Mbps Distance of Measurements: 3 Meters Operating Frequency: 2462MHz Channel: 11

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]
4924.00	-109.95	Avg	Н	H2	41.80	38.84	53.98	-15.14
4924.00	-97.90	Peak	Н	H2	41.80	50.89	73.98	-23.09
7386.00	-112.00	Avg	Н	H2	43.85	38.85	53.98	-15.13
7386.00	-98.63	Peak	Н	H2	43.85	52.22	73.98	-21.76
12310.00	-110.82	Avg	Н	H2	49.28	45.46	53.98	-8.52
12310.00	-99.00	Peak	Н	H2	49.28	57.28	73.98	-16.70

## Table 6-34. Radiated Measurements

Worst Case Mode: 802.11n Worst Case Transfer Rate: MCS0 Distance of Measurements: 1 & 3 Meters Operating Frequency: 5745MHz Channel: 149

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]
11490.00	-105.49	Avg	Н	H2	48.14	49.65	53.98	-4.33
11490.00	-93.23	Peak	Н	H2	48.14	61.91	73.98	-12.07
22980.00	-99.68	Avg	Н	H2	44.46	42.24	53.98	-11.74
22980.00	-108.34	Peak	Н	H2	44.46	33.58	73.98	-40.40

Table 6-35. Radiated Measurements

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 07 of 121
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@ 0014 BOTEOT E : : :	·			1/5



Worst Case Mode: 802.11n

Worst Case Transfer Rate: MCS0

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5785MHz

Channel: 157

Frequency [MHz]	Analyzer Level [dBm]	evel Detector		EUT Pol. [H/H2/V]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11570.00	-104.04	Avg	Η	H2	48.39	51.35	53.98	-2.63
11570.00	-92.90	Peak	Н	H2	48.39	62.49	73.98	-11.49

## Table 6-36. Radiated Measurements

Worst Case Mode: 802.11n

Worst Case Transfer Rate: MCS0

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5825MHz

Channel: 165

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]
11650.00	-104.53	Avg	Н	H2	48.42	50.89	53.98	-3.08
11650.00	-91.00	Peak	Н	H2	48.42	64.42	73.98	-9.55

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 98 of 121
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# **Antenna-2 Radiated Spurious Emission Measurements** §15.247(d) §15.205 & §15.209

Worst Case Mode: 802.11b Worst Case Transfer Rate: 1 Mbps Distance of Measurements: 3 Meters Operating Frequency: 2412MHz Channel: 01

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]
4824.00	-108.94	Avg	Н	Н	41.58	39.65	53.98	-14.33
4824.00	-96.09	Peak	Н	Н	41.58	52.50	73.98	-21.48
12060.00	-108.79	Avg	Н	Н	49.05	47.26	53.98	-6.72
12060.00	-110.69	Peak	Н	Н	49.05	45.36	73.98	-28.62

#### **Table 6-37. Radiated Measurements**

Worst Case Mode: 802.11b Worst Case Transfer Rate: 1 Mbps Distance of Measurements: 3 Meters Operating Frequency: 2437MHz Channel: 06

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]
4874.00	-106.45	Avg	Н	Н	41.75	42.30	53.98	-11.68
4874.00	-93.58	Peak	Н	Н	41.75	55.17	73.98	-18.81
7311.00	-111.19	Avg	Н	Н	43.78	39.59	53.98	-14.39
7311.00	-99.34	Peak	Н	Н	43.78	51.44	73.98	-22.54
12185.00	-111.31	Avg	Н	Н	49.11	44.81	53.98	-9.17
12185.00	-98.94	Peak	Н	Н	49.11	57.18	73.98	-16.80

Table 6-38. Radiated Measurements

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Worst Case Mode: 802.11b

Worst Case Transfer Rate: 1 Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz

Channel: 11

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]
4924.00	-104.41	Avg	Н	Н	41.80	44.38	53.98	-9.60
4924.00	-92.85	Peak	Н	Н	41.80	55.94	73.98	-18.04
7386.00	-111.34	Avg	Н	Н	43.85	39.51	53.98	-14.47
7386.00	-98.37	Peak	Н	Н	43.85	52.48	73.98	-21.50
12310.00	-110.19	Avg	Н	Н	49.28	46.09	53.98	-7.89
12310.00	-98.50	Peak	Н	Н	49.28	57.78	73.98	-16.20

## Table 6-39. Radiated Measurements

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11n

MCS0

1 & 3 Meters

5745MHz

149

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11490.00	-101.82	Avg	Н	Н	47.88	0.00	53.07	53.98	-0.91
11490.00	-83.45	Peak	Н	Н	47.88	0.00	71.44	73.98	-2.54
22980.00	-98.67	Avg	Н	Н	44.46	-9.54	43.25	53.98	-10.73
22980.00	-111.15	Peak	Н	Н	44.46	-9.54	30.77	73.98	-43.21

Table 6-40. Radiated Measurements

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 100 of 121
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Worst Case Mode: 802.11n

Worst Case Transfer Rate: MCS0

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5785MHz

Channel: 157

Fr	equency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
1	1570.00	-102.25	Avg	Η	Н	48.13	0.00	52.88	53.98	-1.10
1	1570.00	-81.72	Peak	Н	Н	48.13	0.00	73.41	73.98	-0.57

Table 6-41. Radiated Measurements

Worst Case Mode: 802.11n

Worst Case Transfer Rate: MCS0

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5825MHz

Channel: 165

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11650.00	-101.88	Avg	Н	Н	48.16	0.00	53.28	53.98	-0.70
11650.00	-90.18	Peak	Н	Н	48.16	0.00	64.98	73.98	-9.00

Table 6-42. Radiated Measurements

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 101 of 121
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# MIMO Radiated Spurious Emission Measurements §15.247(d) §15.205 & §15.209

Worst Case Mode:

Worst Case Transfer Rate:

Distance of Measurements:

Operating Frequency:

Channel:

802.11n

MCS8

3 Meters

2412MHz

01

Frequency [MHz]	Analyzer Level [dBm]	Detector	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4824.00	-108.89	Avg	Н	Н	41.58	0.00	39.70	53.98	-14.28
4824.00	-97.60	Peak	Н	Н	41.58	0.00	50.99	73.98	-22.99
12060.00	-111.93	Avg	Н	Н	49.05	0.00	44.12	53.98	-9.86
12060.00	-98.87	Peak	Н	Н	49.05	0.00	57.18	73.98	-16.80

### Table 6-43. Radiated Measurements

Worst Case Mode: 802.11n

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 2437MHz

Channel: 06

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]
4874.00	-110.45	Avg	Н	Н	41.75	38.30	53.98	-15.68
4874.00	-97.48	Peak	Н	Н	41.75	51.27	73.98	-22.71
7311.00	-110.64	Avg	Н	Н	43.78	40.14	53.98	-13.84
7311.00	-98.60	Peak	Н	Н	43.78	52.18	73.98	-21.80
12185.00	-112.07	Avg	Н	Н	49.11	44.05	53.98	-9.93
12185.00	-98.62	Peak	Н	Н	49.11	57.50	73.98	-16.48

Table 6-44. Radiated Measurements

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Worst Case Mode: 802.11n

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz

Channel: 11

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]
4924.00	-109.28	Avg	Н	Н	41.80	39.51	53.98	-14.47
4924.00	-96.22	Peak	Н	Н	41.80	52.57	73.98	-21.41
7386.00	-110.84	Avg	Н	Н	43.85	40.01	53.98	-13.97
7386.00	-99.04	Peak	Н	Н	43.85	51.81	73.98	-22.17
12310.00	-110.66	Avg	Н	Н	49.28	45.62	53.98	-8.36
12310.00	-99.60	Peak	Н	Н	49.28	56.68	73.98	-17.30

# Table 6-45. Radiated Measurements

Worst Case Mode: 802.11n
Worst Case Transfer Rate: MCS8

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5745MHz

Channel: 149

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]
11490.00	-108.52	Avg	Н	Н	47.88	46.37	53.98	-7.61
11490.00	-97.99	Peak	Н	Н	47.88	56.90	73.98	-17.08
22980.00	-107.15	Avg	Н	Н	44.46	34.77	53.98	-19.21
22980.00	-100.01	Peak	Н	Н	44.46	41.91	73.98	-32.07

Table 6-46. Radiated Measurements

FCC ID: A3LSMT805M	PCTEST	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 103 of 121
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Worst Case Mode: 802.11n

Worst Case Transfer Rate: MCS8

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5785MHz

Channel: 157

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]
11570.00	-109.38	Avg	Н	Н	48.13	45.75	53.98	-8.23
11570.00	-98.03	Peak	Н	Н	48.13	57.10	73.98	-16.88

Table 6-47. Radiated Measurements

Worst Case Mode: 802.11n

Worst Case Transfer Rate: MCS8

Distance of Measurements: 1 & 3 Meters

Operating Frequency: 5825MHz

Channel: 165

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]
11650.00	-109.63	Avg	Н	Н	48.16	45.53	53.98	-8.45
11650.00	-97.22	Peak	Н	Н	48.16	57.94	73.98	-16.04

**Table 6-48. Radiated Measurements** 

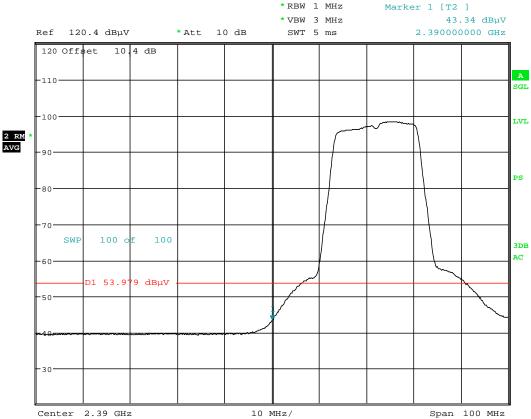
FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Dogo 104 of 121
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#### **Radiated Restricted Band Edge Measurements** 6.8 §15.205 §15.209

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode: 802.11n Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 2412MHz Channel: 1 \*RBW 1 MHz \*VBW 3 MHz \* Att 10 dB SWT 5 ms



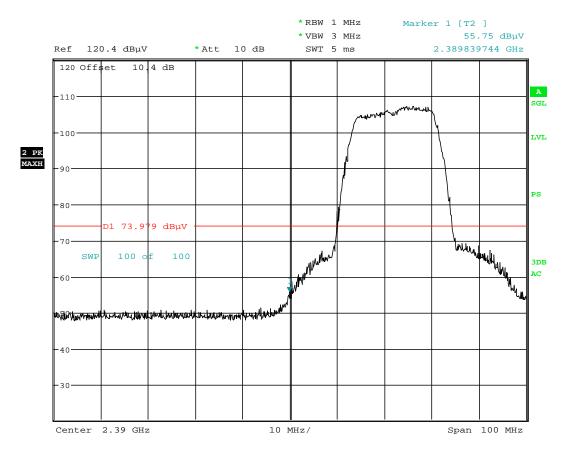
Date: 30.MAY.2014 01:53:37

Plot 6-125. Radiated Restricted Lower Band Edge Measurement (Average)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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# **Radiated Restricted Band Edge Measurements** §15.205 §15.209



Date: 30.MAY.2014 01:54:25

Plot 6-126. Radiated Restricted Lower Band Edge Measurement (Peak)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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# Radiated Restricted Band Edge Measurements §15.205 §15.209

Worst Case Mode:

Worst Case Transfer Rate:

MCS0

Distance of Measurements:

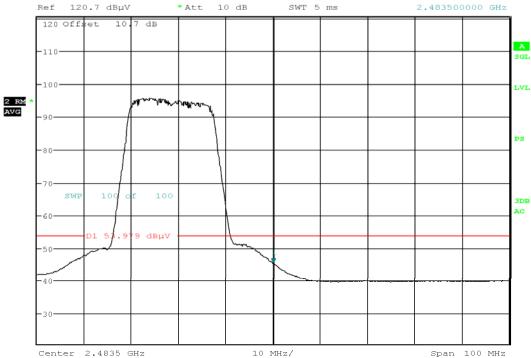
Operating Frequency:

Channel:

11



Marker 1 [T2 ] 45.69 dBμV



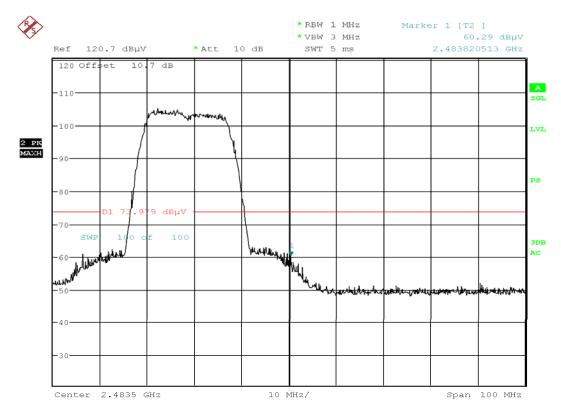
Date: 19.MAY.2014 23:21:08

Plot 6-127. Radiated Restricted Upper Band Edge Measurement (Average)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 107 of 121
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# **Radiated Restricted Band Edge Measurements** §15.205 §15.209



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

Plot 6-128. Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 108 of 121
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## **Antenna-2 Radiated Restricted Band Edge Measurements** §15.205 §15.209

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode: 802.11n Worst Case Transfer Rate: MCS0 Distance of Measurements: 3 Meters Operating Frequency: 2412MHz Channel: 1 \*RBW 1 MHz Marker 1 [T2] \*VBW 3 MHz 45.15 dBµV 2.390000000 GHz Ref 120.4 dBµV 10 dB \* Att SWT 5 ms 120 Offset 10.4 dB 110 -100-LVL 2 RM -90-PS 100 100 of 3DB AC 60-01 53.9<mark>7</mark>9 dΒμV 30

Date: 30.MAY.2014 02:01:57

Center 2.39 GHz

Plot 6-129. Radiated Restricted Lower Band Edge Measurement (Average)

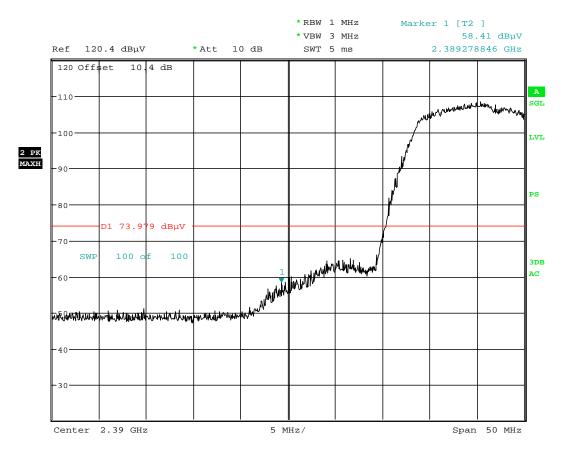
5 MHz/

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Span 50 MHz



# Radiated Restricted Band Edge Measurements §15.205 §15.209



Date: 30.MAY.2014 02:02:35

Plot 6-130. Radiated Restricted Lower Band Edge Measurement (Peak)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 110 of 121
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# Radiated Restricted Band Edge Measurements §15.205 §15.209

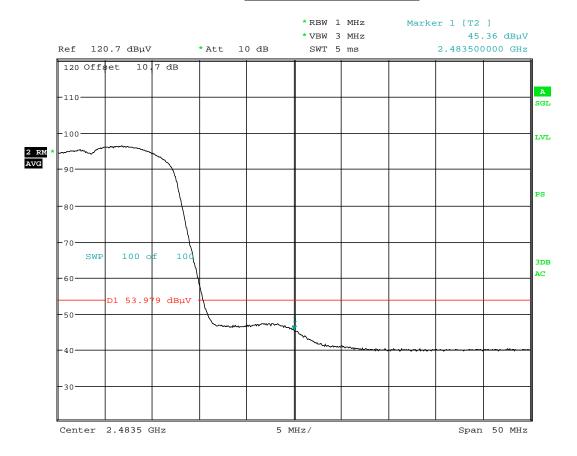
Worst Case Mode: 802.11n

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz

Channel: 11



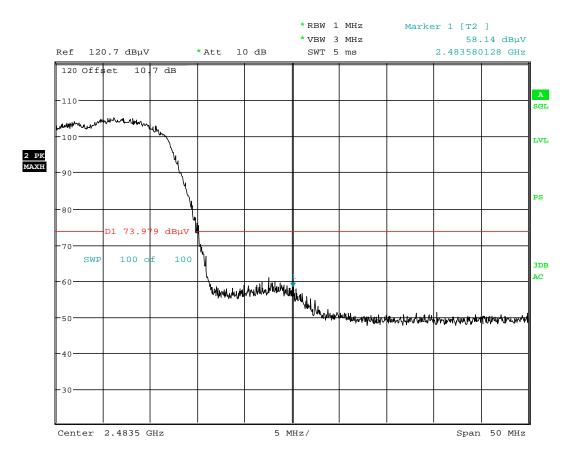
Date: 30.MAY.2014 02:05:14

Plot 6-131. Radiated Restricted Upper Band Edge Measurement (Average)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 111 of 121
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# **Radiated Restricted Band Edge Measurements** §15.205 §15.209



Date: 30.MAY.2014 02:05:56

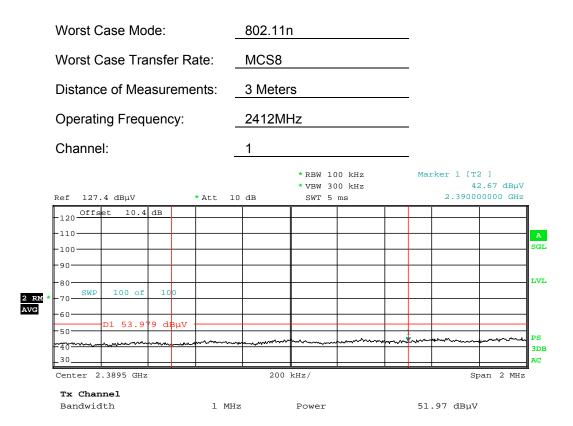
Plot 6-132. Radiated Restricted Upper Band Edge Measurement (Peak)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 112 of 121
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# **MIMO Radiated Restricted Band Edge Measurements** §15.205 §15.209

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.



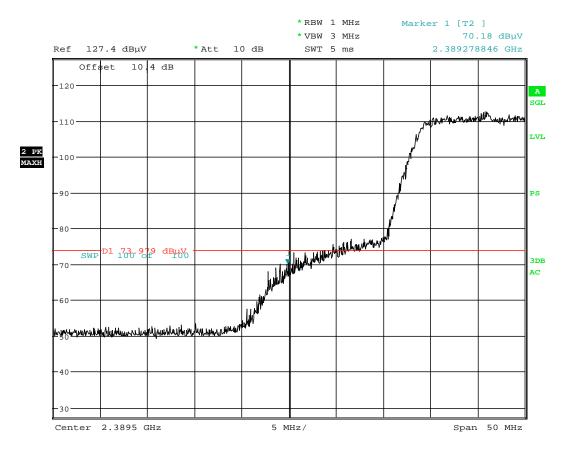
Date: 8.MAY.2014 01:17:14

Plot 6-133. Radiated Restricted Lower Band Edge Measurement (Average)

Test Report S/N: Test Dates: EUT Type:	FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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# **Radiated Restricted Band Edge Measurements** §15.205 §15.209



Date: 8.MAY.2014 01:20:06

Plot 6-134. Radiated Restricted Lower Band Edge Measurement (Peak)

FCC ID: A3LSMT805M	PCTEST'	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:		Page 114 of 121
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# Radiated Restricted Band Edge Measurements §15.205 §15.209

Worst Case Mode:

Worst Case Transfer Rate:

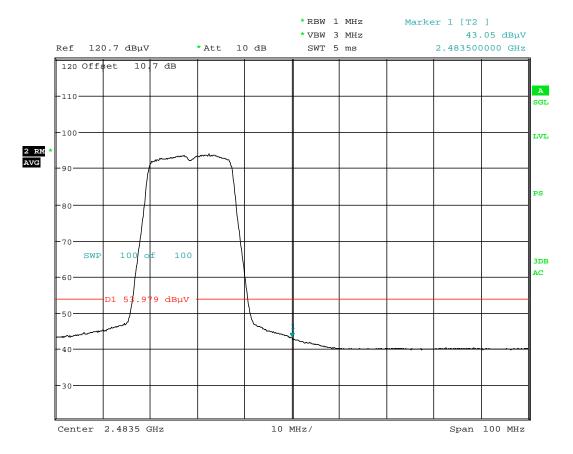
MCS8

Distance of Measurements:

Operating Frequency:

2462MHz

Channel: 11



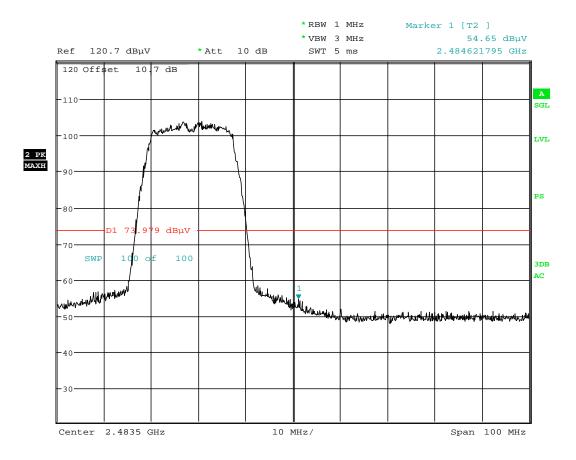
Date: 30.MAY.2014 02:12:22

Plot 6-135. Radiated Restricted Upper Band Edge Measurement (Average)

FCC ID: A3LSMT805M	PCTEST*	FCC Pt. 15.247 802.11a/b/g/n/ac MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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# Radiated Restricted Band Edge Measurements §15.205 §15.209



Date: 30.MAY.2014 02:12:48

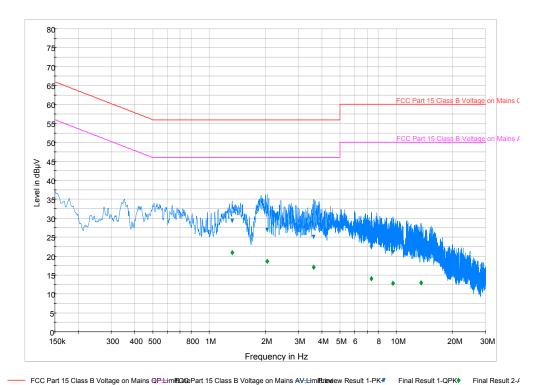
Plot 6-136. Radiated Restricted Upper Band Edge Measurement (Peak)

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## 6.11 Line-Conducted Test Data

#### §15.207



Plot 6-137. Line Conducted Plot with 802.11b (L1)

Frequency Line QuasiPeak Corr. Limit Margin Average Limit Margin MHz dΒ dΒμV dΒμV dΒ dΒμV dΒμV dΒ 56.00 1.327 L1 0.1 29.30 26.70 20.90 46.00 25.10 L1 2.042 0.1 26.90 56.00 29.10 18.60 46.00 27.40 3.626 L1 0.2 25.10 56.00 30.90 17.00 46.00 29.00 60.00 7.352 L1 0.3 22.20 37.80 14.00 50.00 36.00 9.611 L1 0.3 21.00 60.00 39.00 12.80 50.00 37.20 60.00 13.562 L1 0.4 25.60 34.40 12.90 50.00 37.10

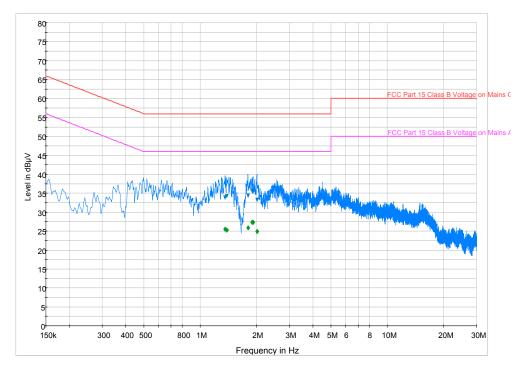
Table 6-49. Line Conducted Data with 802.11b (L1)

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

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FCC Part 15 Class B Voltage on Mains QP:LimiR00ePart 15 Class B Voltage on Mains AV:LimiR0feew Result 1-PK\* Final Result 1-QPK Final Result 2-/

### Plot 6-138. Line Conducted Plot with 802.11b (N)

Frequency	Line	Corr.	QuasiPeak	Limit	Margin	Average	Limit	Margin
MHz		dB	dΒμV	dΒμV	dB	dΒμV	dΒμV	dB
1.358	N	0.1	33.80	56.00	22.20	25.50	46.00	20.50
1.388	N	0.1	34.10	56.00	21.90	25.30	46.00	20.70
1.802	N	0.2	34.30	56.00	21.70	25.80	46.00	20.20
1.896	N	0.2	35.70	56.00	20.30	27.40	46.00	18.60
1.916	N	0.2	35.40	56.00	20.60	27.30	46.00	18.70
2.013	N	0.2	33.20	56.00	22.80	24.90	46.00	21.10

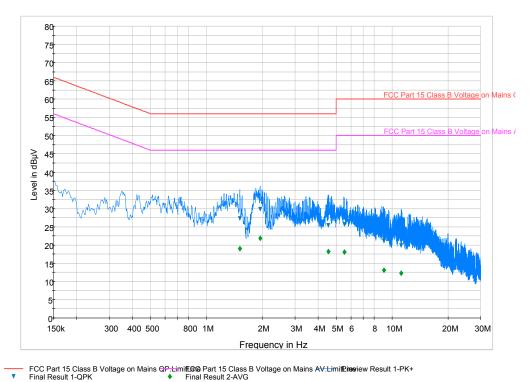
Table 6-50. Line Conducted Data with 802.11b (N)

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

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Plot 6-139. Line Conducted Plot with 802.11a (L1)

Frequency	Line	Corr.	QuasiPeak	Limit	Margin	Average	Limit	Margin
MHz		dB	dΒμV	dΒμV	dB	dΒμV	dΒμV	dB
1.514	L1	0.1	27.30	56.00	28.70	19.10	46.00	26.90
1.946	L1	0.1	29.90	56.00	26.10	21.90	46.00	24.10
4.526	L1	0.2	25.40	56.00	30.60	18.20	46.00	27.80
5.534	L1	0.2	25.70	60.00	34.30	18.10	50.00	31.90
9.020	L1	0.3	21.10	60.00	38.90	13.10	50.00	36.90
11.216	L1	0.4	19.80	60.00	40.20	12.30	50.00	37.70

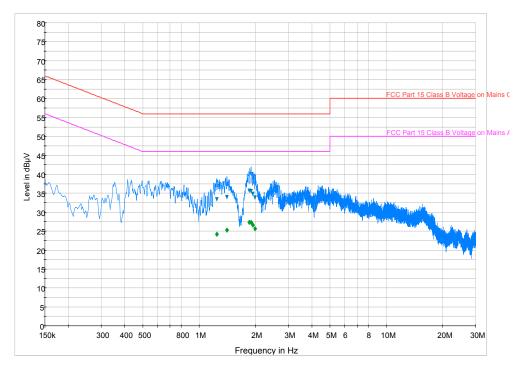
Table 6-51. Line Conducted Data with 802.11a (L1)

- 1.All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 157. The emissions found were not affected by the choice of channel used during testing.
- 2.The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
- 3.Factor (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 4.QP/AV Level (dB $\mu$ V) = QP/AV Analyzer/Receiver Level (dB $\mu$ V) + Factor (dB)
- 5.Margin (dB) = QP/AV Limit (dB $\mu$ V) QP/AV Level (dB $\mu$ V)
- 6. Traces shown in plot are made using a peak detector.
- 7. Deviations to the Specifications: None.

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FCC Part 15 Class B Voltage on Mains QP:LimR00ePart 15 Class B Voltage on Mains AV:LimRtrindew Result 1-PK# Final Result 1-QPK Final Result 2-/

### Plot 6-140. Line Conducted Plot with 802.11a (N)

Frequency	Line	Corr.	QuasiPeak	Limit	Margin	Average	Limit	Margin
MHz		dB	dΒμV	dΒμV	dB	dΒμV	dΒμV	dB
1.241	N	0.1	33.40	56.00	22.60	24.20	46.00	21.80
1.410	N	0.1	33.90	56.00	22.10	25.30	46.00	20.70
1.853	N	0.2	35.60	56.00	20.40	27.30	46.00	18.70
1.896	N	0.2	35.50	56.00	20.50	27.40	46.00	18.60
1.939	N	0.2	34.80	56.00	21.20	26.60	46.00	19.40
1.988	N	0.2	33.90	56.00	22.10	25.60	46.00	20.40

Table 6-52. Line Conducted Data with 802.11a (N)

- 1.All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11a mode using 6Mbps on Channel 157. The emissions found were not affected by the choice of channel used during testing.
- 2.The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
- 3.Factor (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 4.QP/AV Level (dB $\mu$ V) = QP/AV Analyzer/Receiver Level (dB $\mu$ V) + Factor (dB)
- 5.Margin (dB) = QP/AV Limit (dB $\mu$ V) QP/AV Level (dB $\mu$ V)
- 6. Traces shown in plot are made using a peak detector.
- 7. Deviations to the Specifications: None.

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#### CONCLUSION 7.0

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

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