

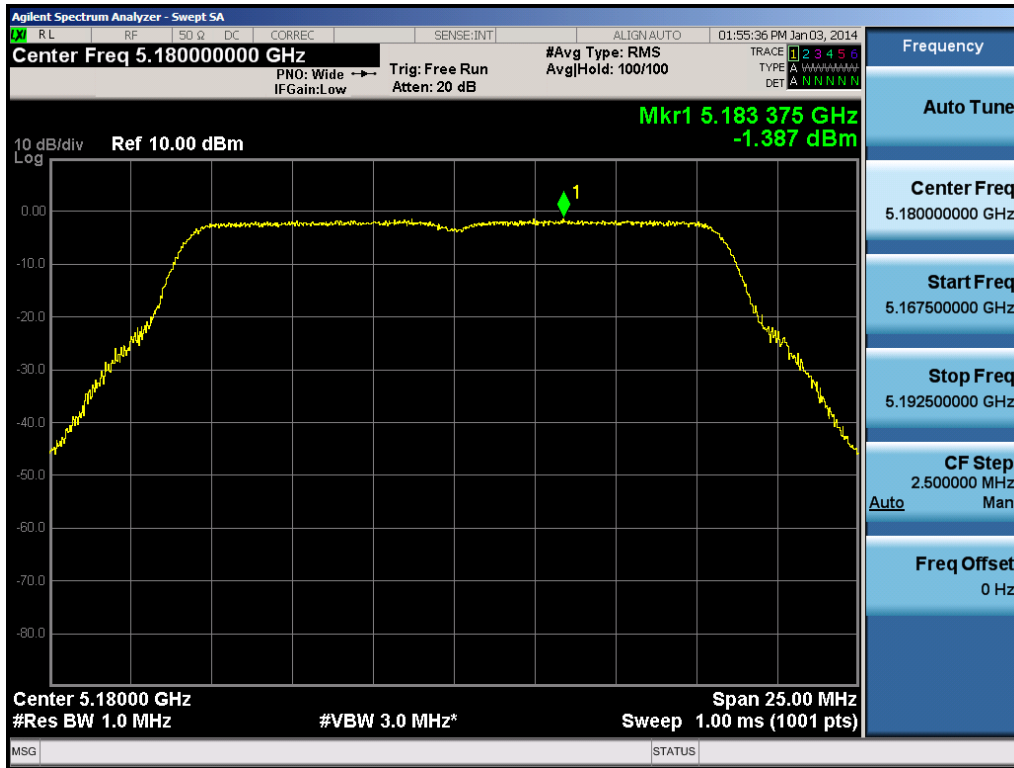


Antenna-2 Peak Power Spectral Density – 802.11a/n/ac

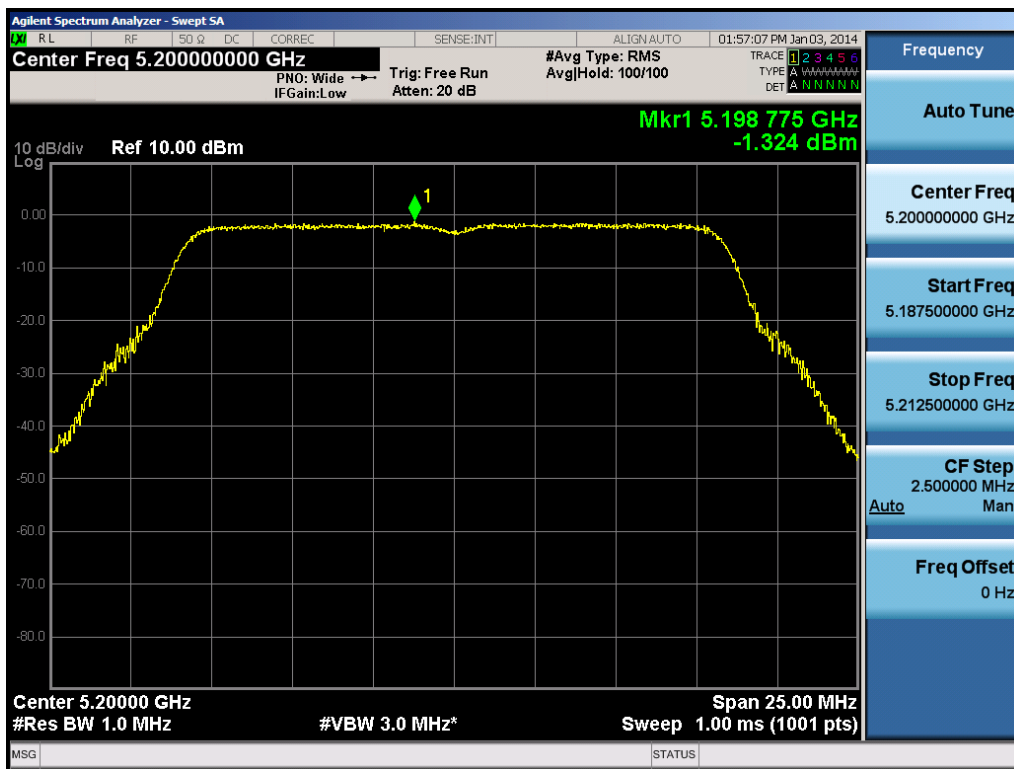
	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/MHz]	Margin [dB]
Band I	5180	36	a	6	-1.387	4.0	-5.39
	5200	40	a	6	-1.324	4.0	-5.32
	5240	48	a	6	-1.543	4.0	-5.54
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	-1.920	4.0	-5.92
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	-1.655	4.0	-5.66
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	-1.686	4.0	-5.69
	5190	38	n (40MHz)	13.5/15 (MCS0)	-4.527	4.0	-8.53
	5230	46	n (40MHz)	13.5/15 (MCS0)	-4.246	4.0	-8.25
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-8.295	4.0	-12.30
Band II	5260	52	a	6	-1.719	11.0	-12.72
	5280	56	a	6	-1.690	11.0	-12.69
	5320	64	a	6	-2.325	11.0	-13.33
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	-1.970	11.0	-12.97
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	-2.124	11.0	-13.12
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	-2.639	11.0	-13.64
	5270	54	n (40MHz)	13.5/15 (MCS0)	-4.990	11.0	-15.99
	5310	62	n (40MHz)	13.5/15 (MCS0)	-4.999	11.0	-16.00
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-8.643	11.0	-19.64
Band III	5500	100	a	6	-1.108	11.0	-12.11
	5580	116	a	6	-2.021	11.0	-13.02
	5700	140	a	6	-2.428	11.0	-13.43
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	-1.290	11.0	-12.29
	5580	116	n (20MHz)	6.5/7.2 (MCS0)	-2.321	11.0	-13.32
	5700	140	n (20MHz)	6.5/7.2 (MCS0)	-2.545	11.0	-13.55
	5510	102	n (40MHz)	13.5/15 (MCS0)	-4.202	11.0	-15.20
	5550	110	n (40MHz)	13.5/15 (MCS0)	-4.394	11.0	-15.39
	5670	134	n (40MHz)	13.5/15 (MCS0)	-5.374	11.0	-16.37
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-7.502	11.0	-18.50

Table 6-16. Conducted Power Spectral Density Measurements

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 67 of 176	

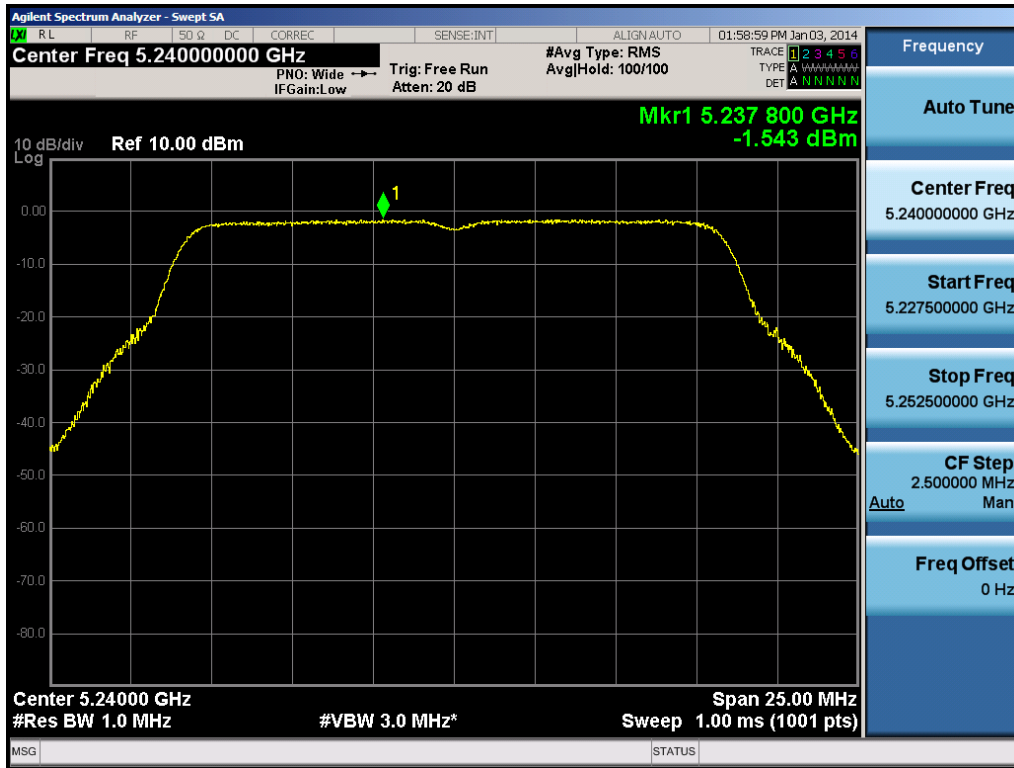


Plot 6-89. Peak Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 36)

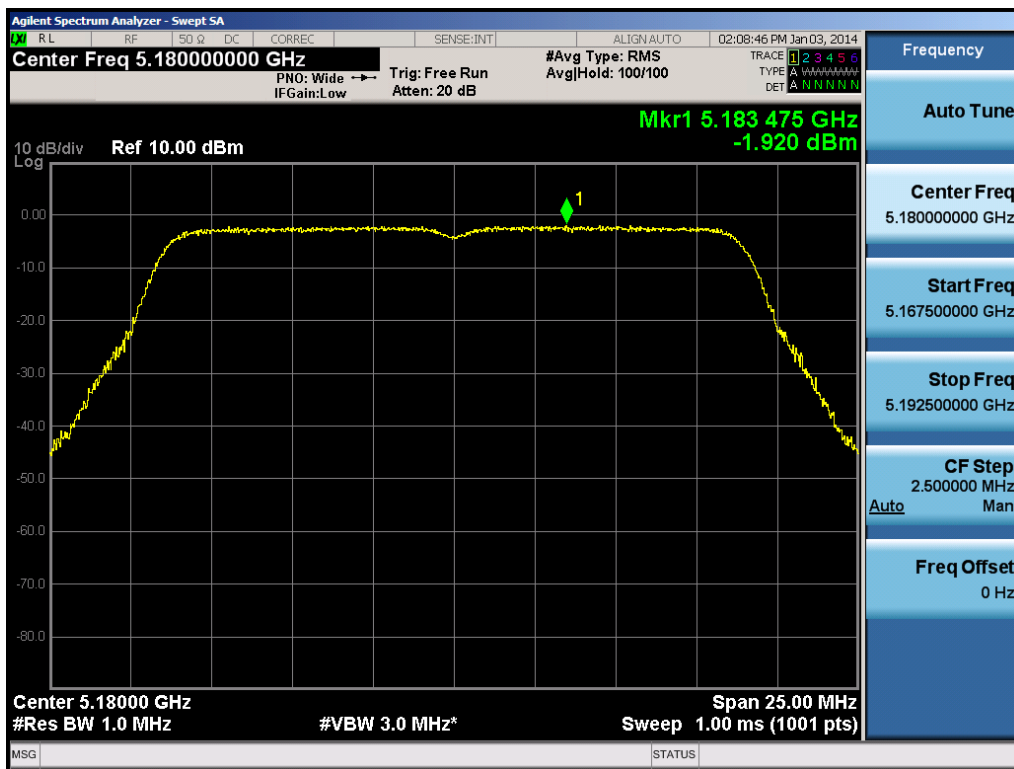


Plot 6-90. Peak Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 40)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 68 of 176

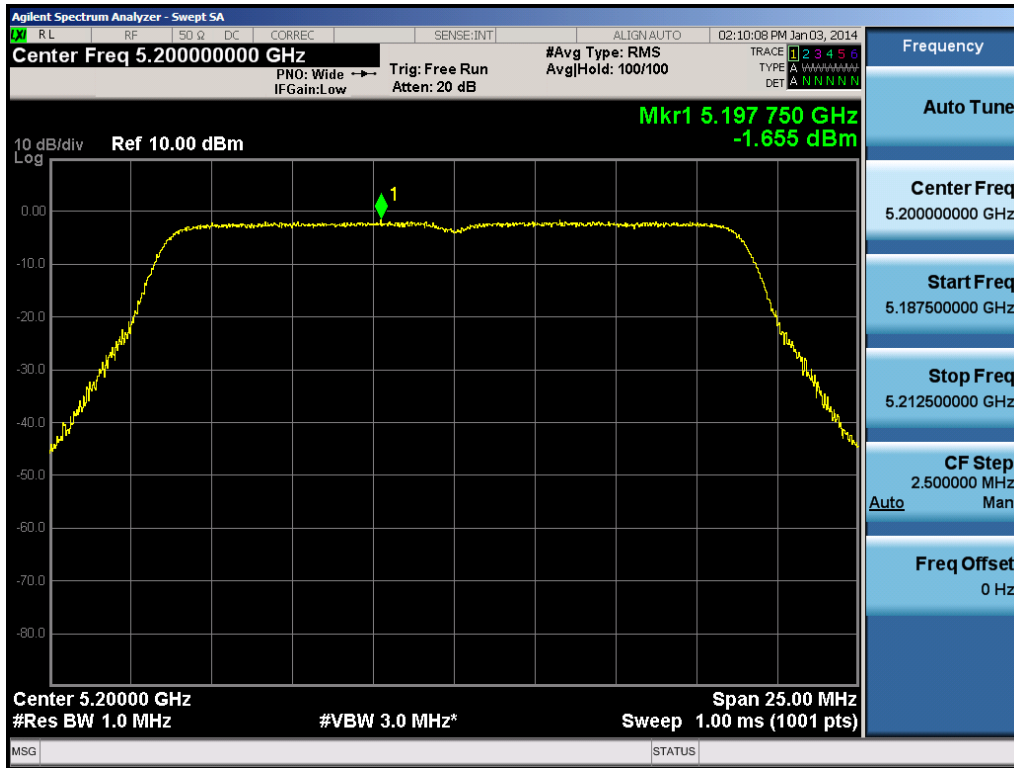


Plot 6-91. Peak Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 48)

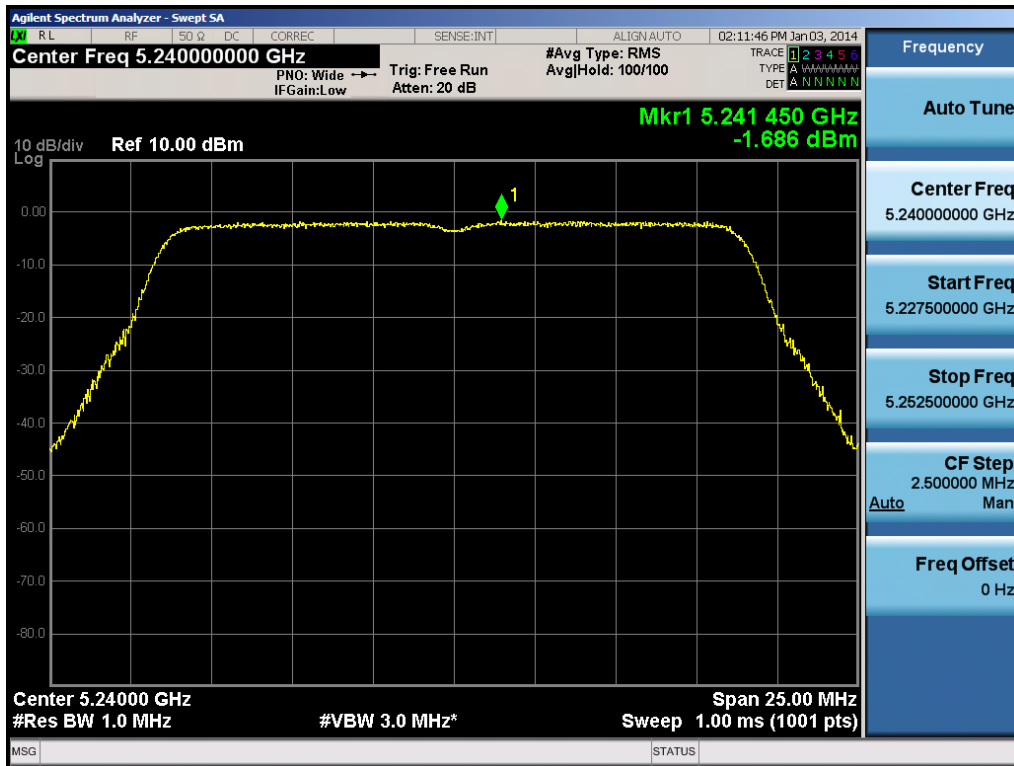


Plot 6-92. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 36)

FCC ID: A3LSMP905V	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 69 of 176

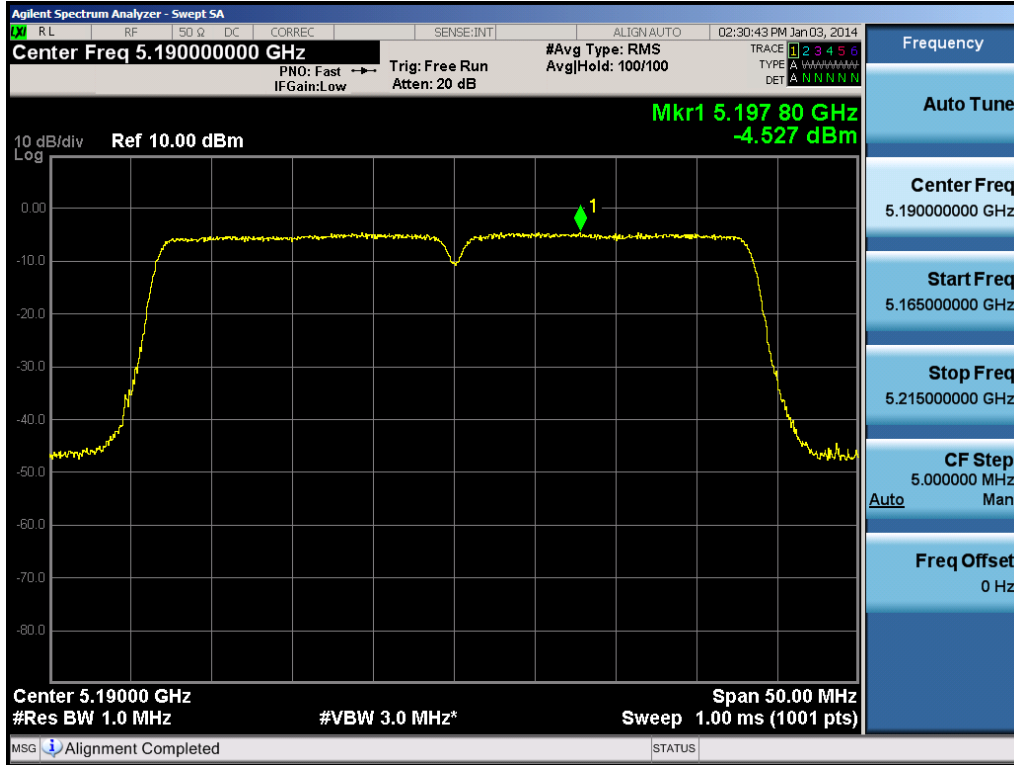


Plot 6-93. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 40)

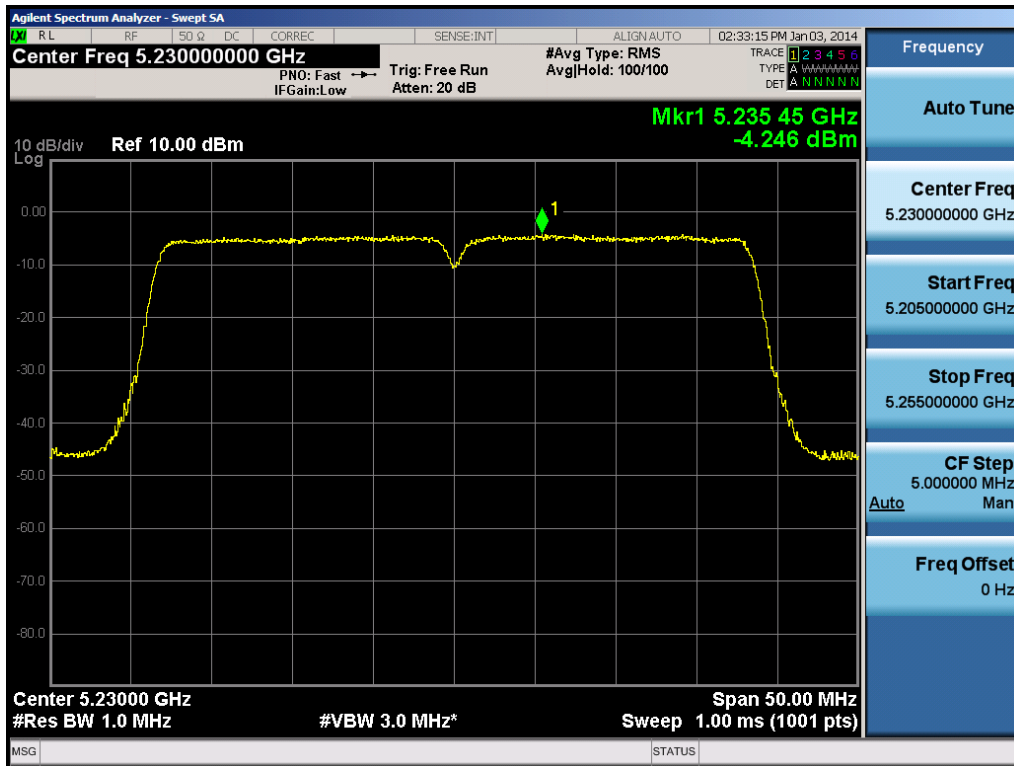


Plot 6-94. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 1) – Ch. 48)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 70 of 176

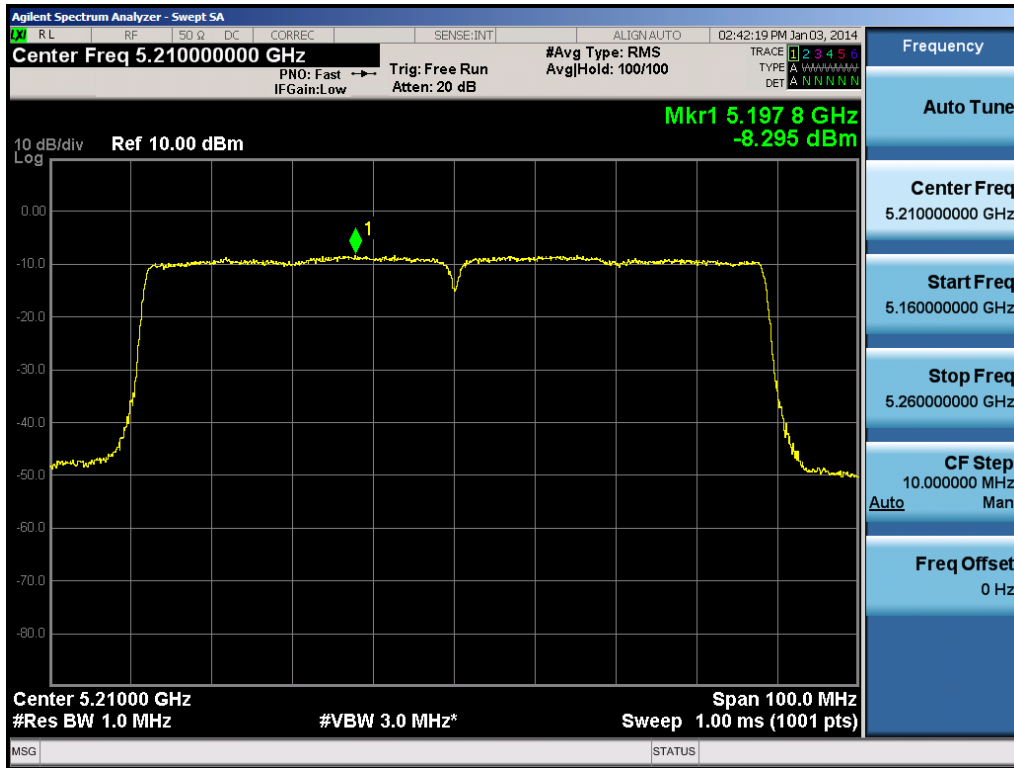


Plot 6-95. Peak Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 38)

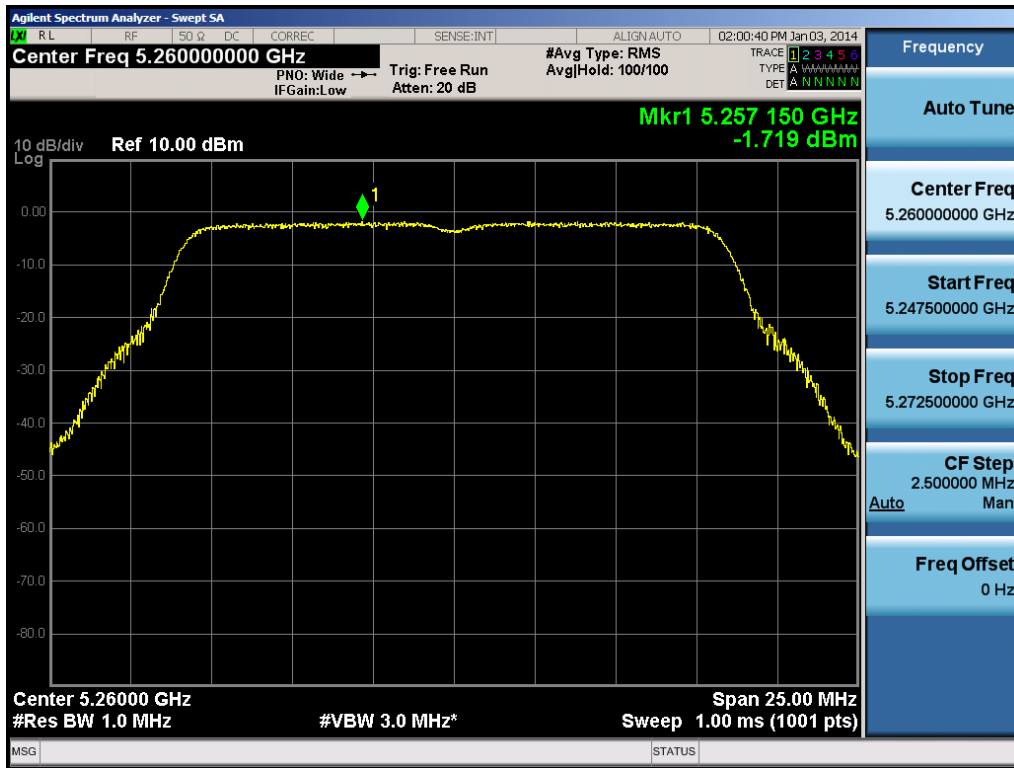


Plot 6-96. Peak Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 1) – Ch. 46)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 71 of 176



Plot 6-97. Peak Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 1) – Ch. 42)

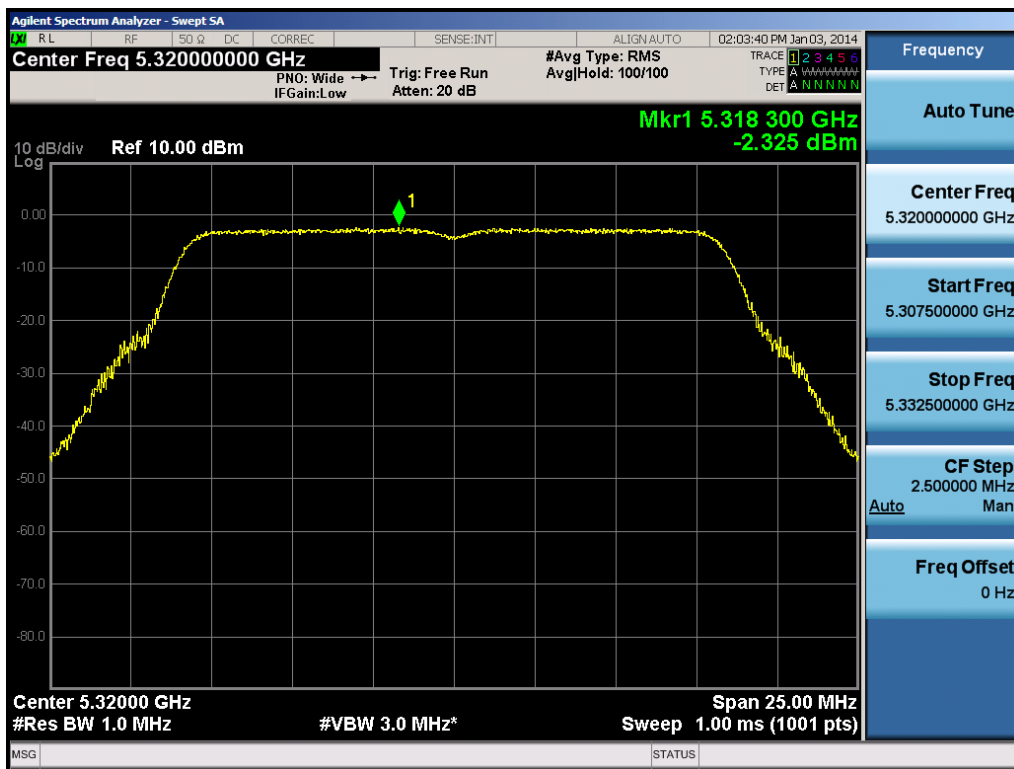


Plot 6-98. Peak Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 52)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 72 of 176

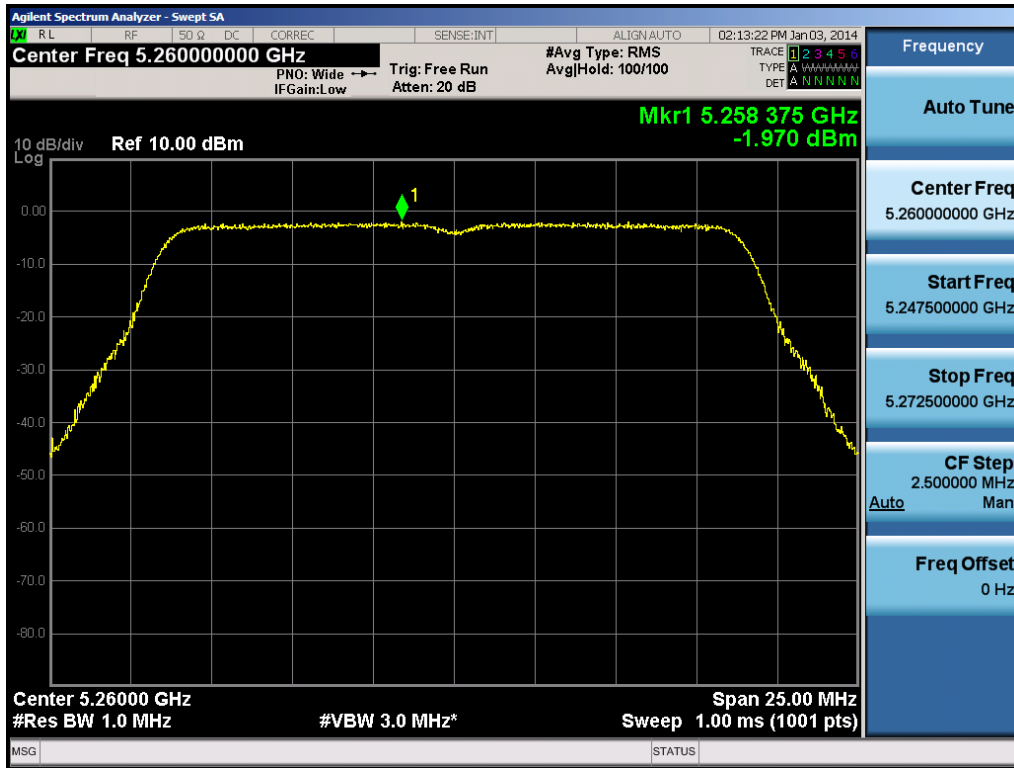


Plot 6-99. Peak Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 56)

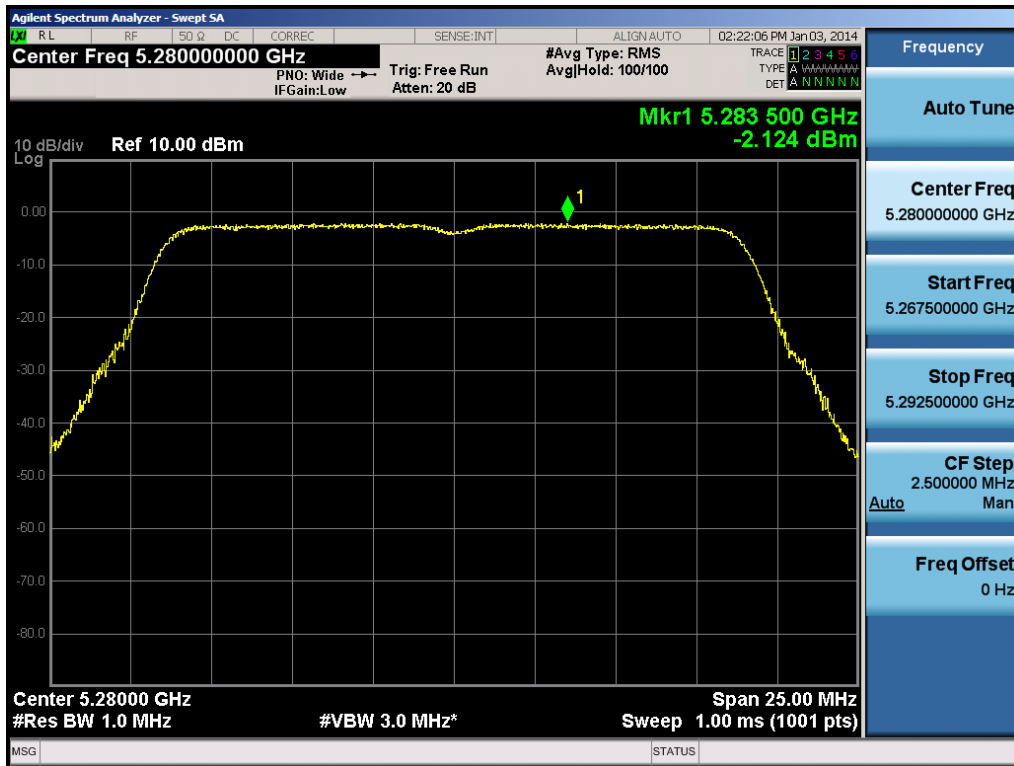


Plot 6-100. Peak Power Spectral Density Plot (802.11a (UNII Band 2A) – Ch. 64)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 73 of 176

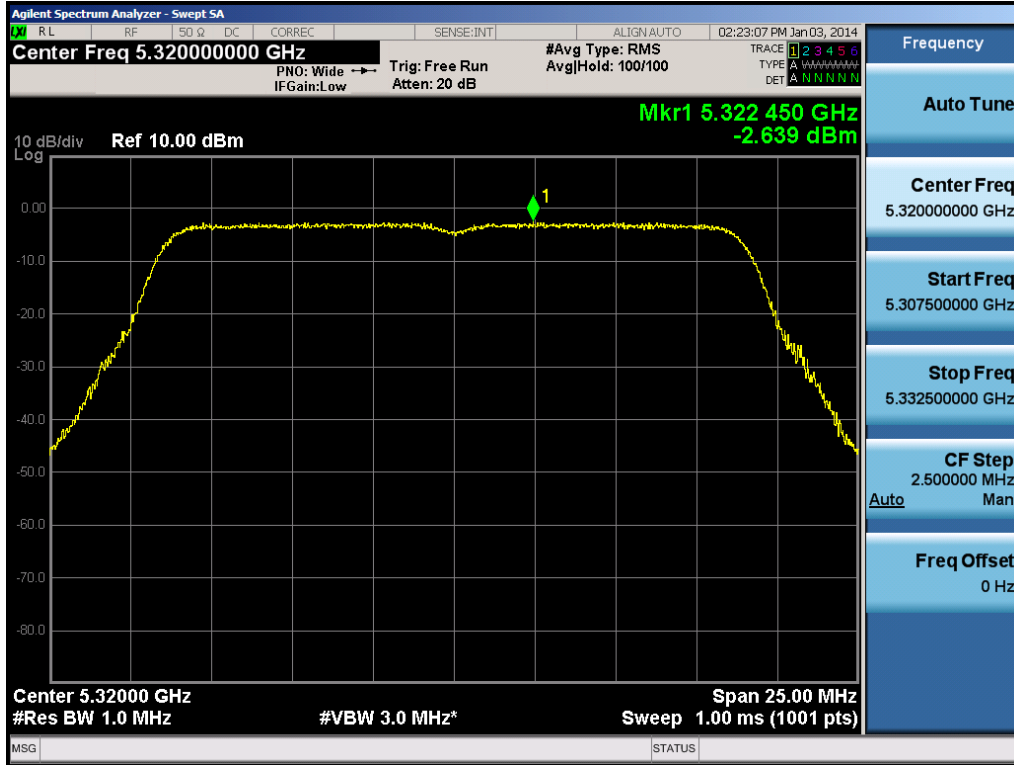


Plot 6-101. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 52)

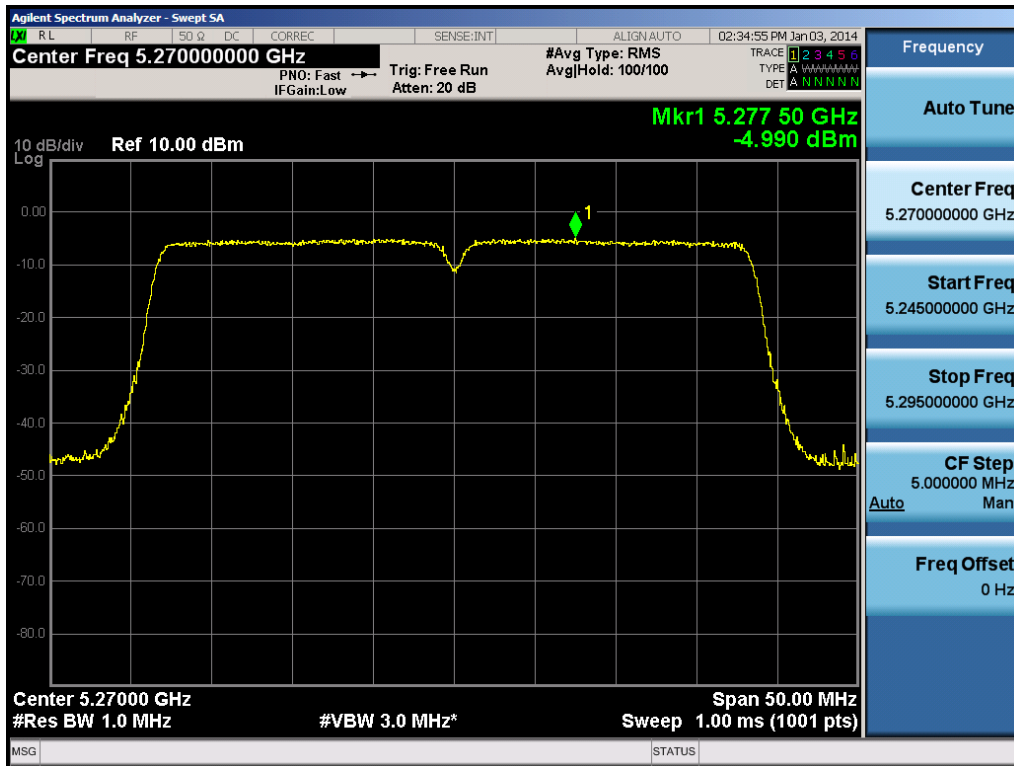


Plot 6-102. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 56)



FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 74 of 176

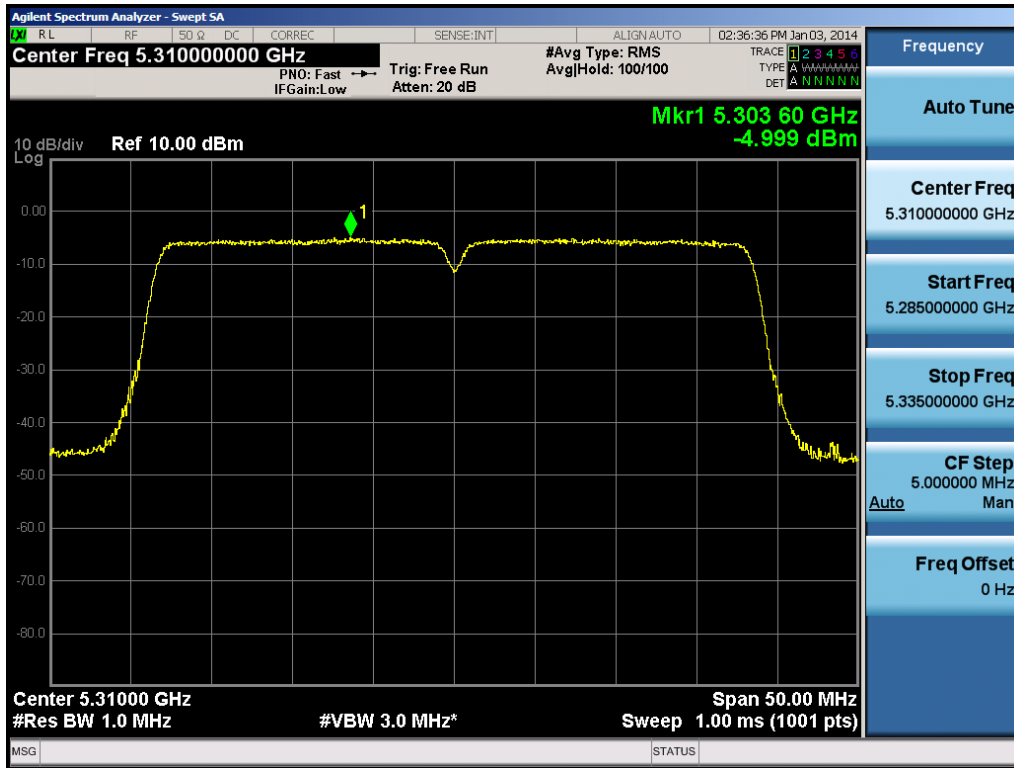


Plot 6-103. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2A) – Ch. 64)

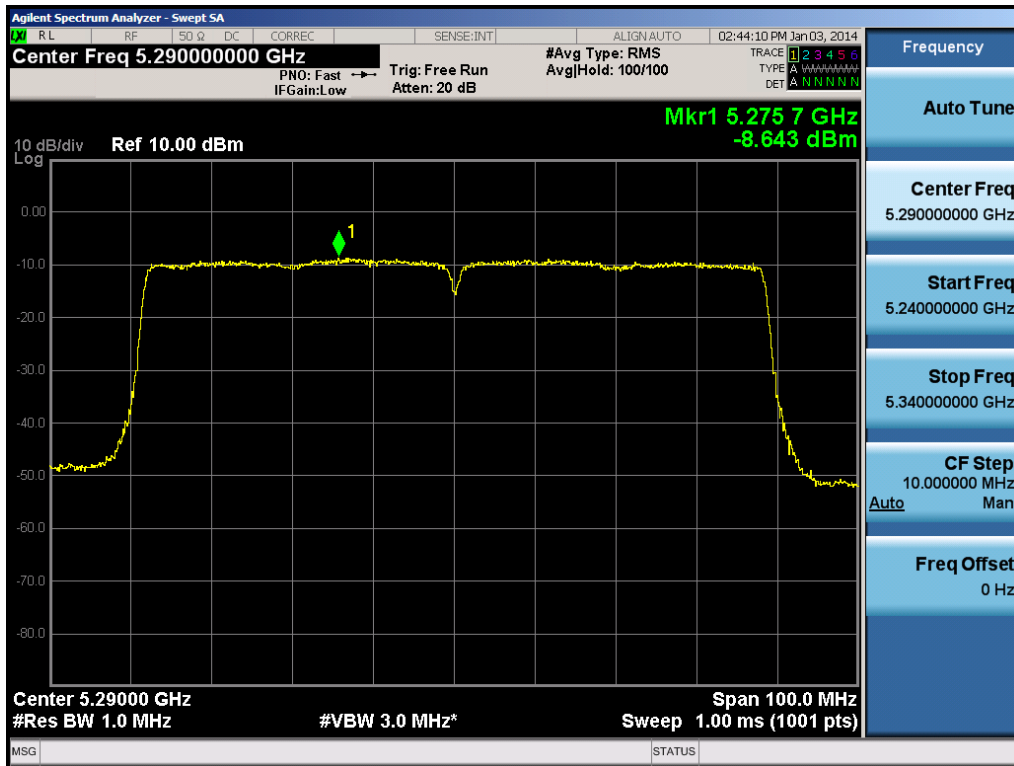


Plot 6-104. Peak Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 54)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 75 of 176

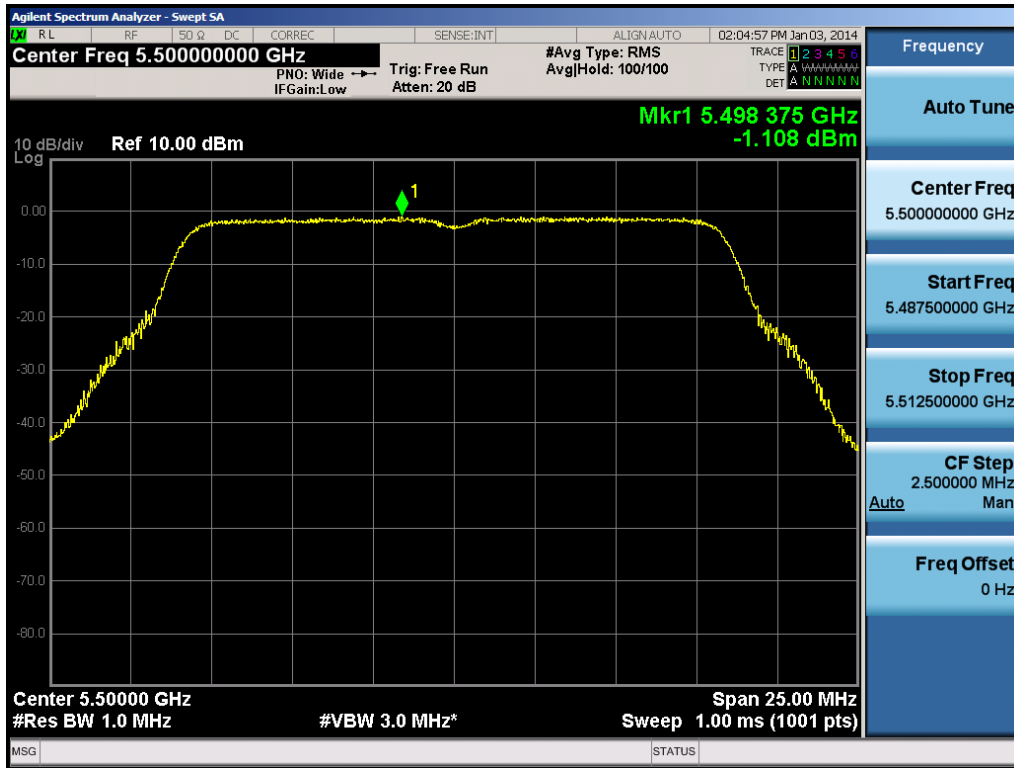


Plot 6-105. Peak Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2A) – Ch. 62)

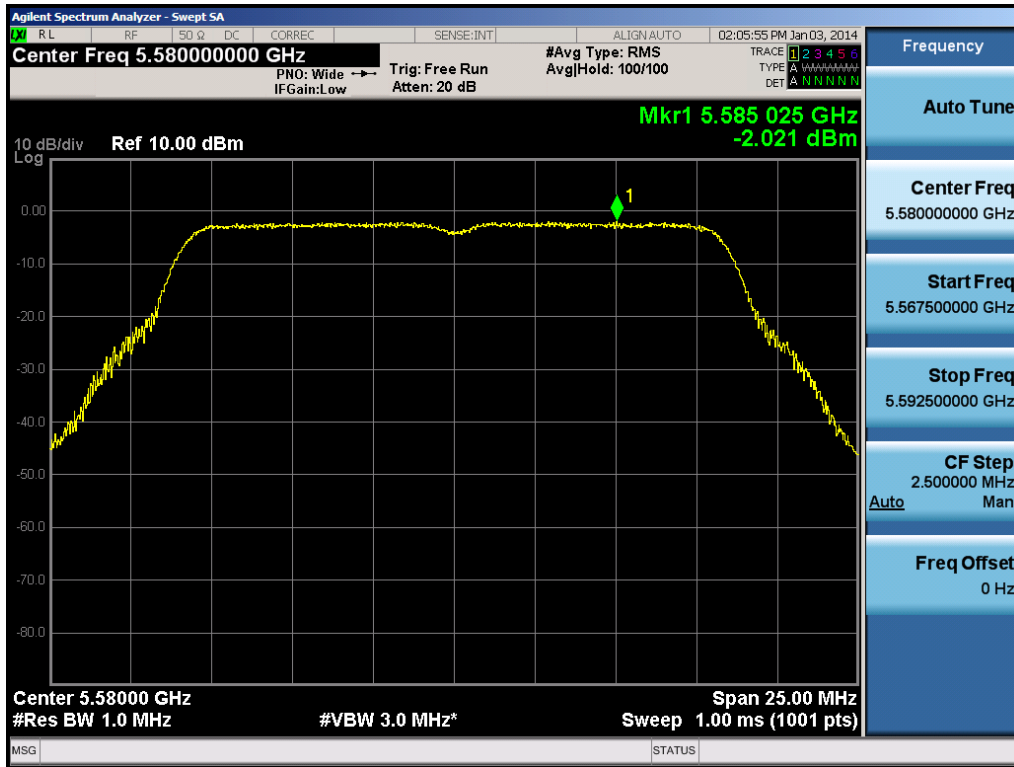


Plot 6-106. Peak Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2A) – Ch. 58)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 76 of 176

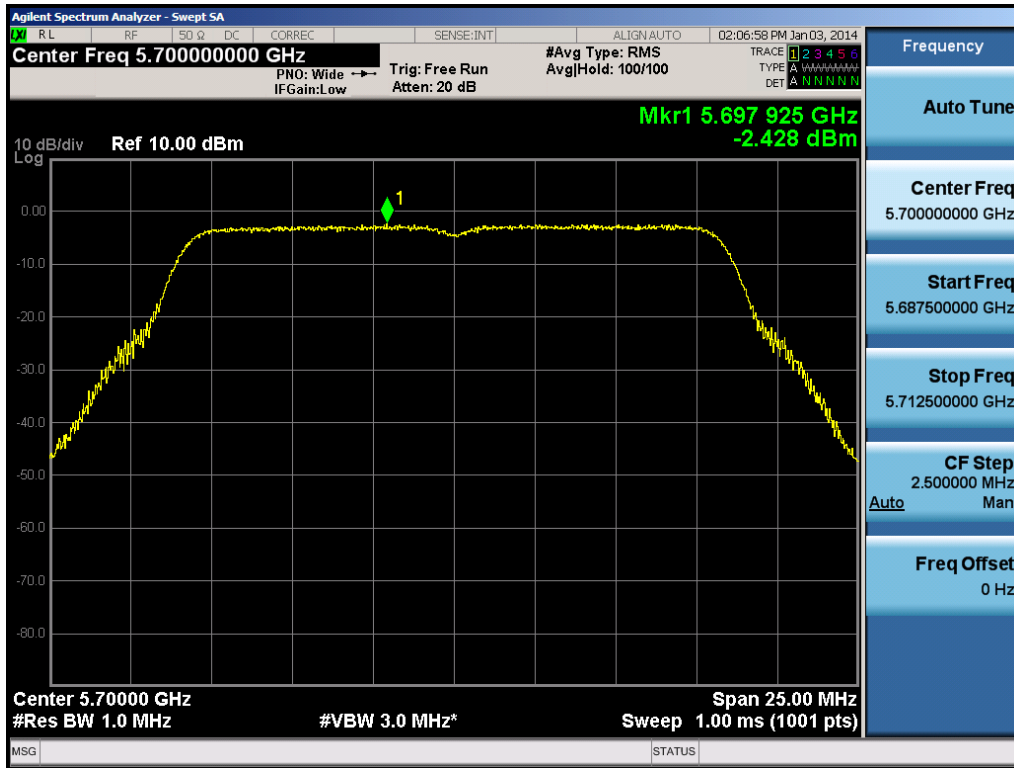


Plot 6-107. Peak Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 100)

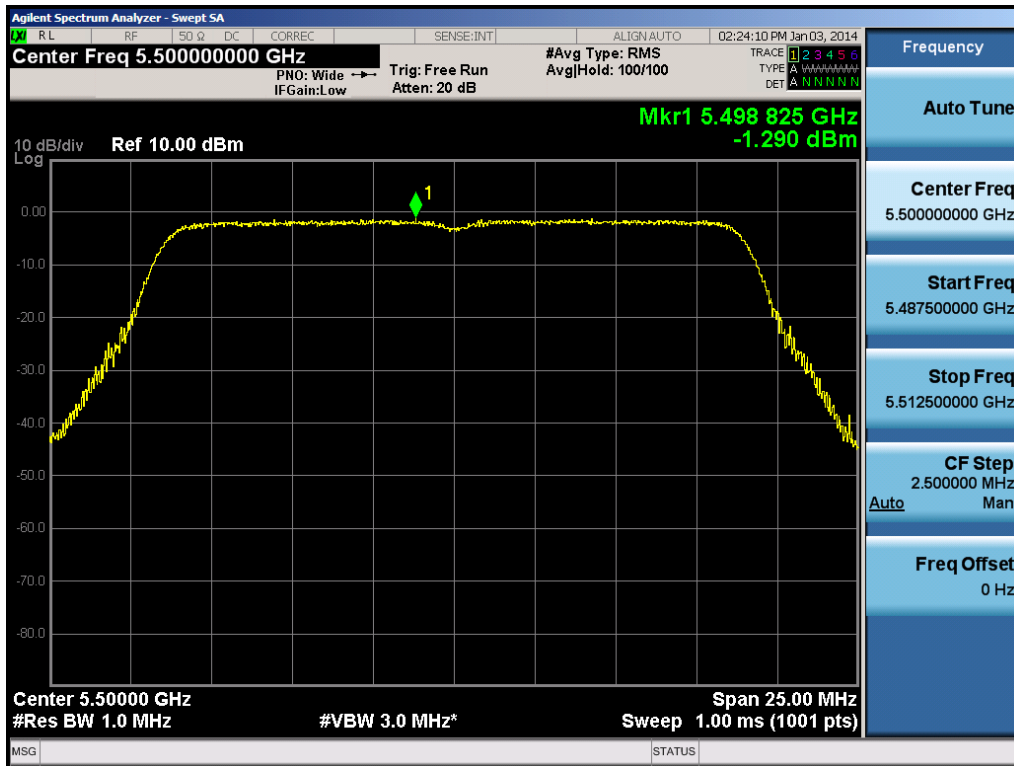


Plot 6-108. Peak Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 116)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 77 of 176

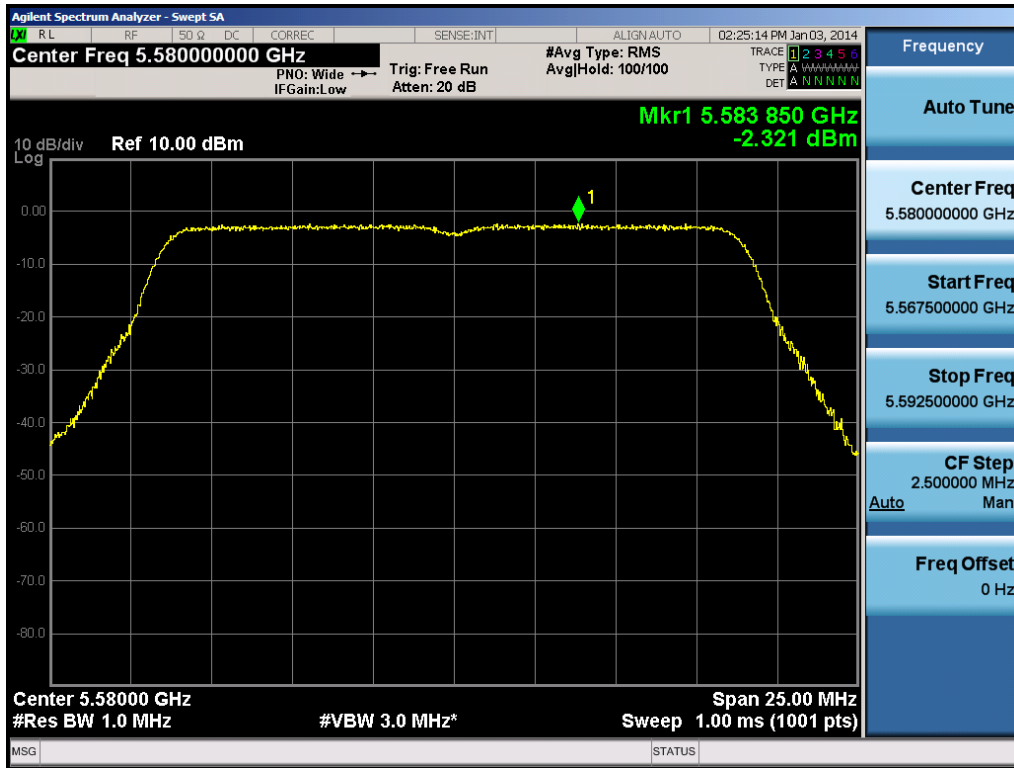


Plot 6-109. Peak Power Spectral Density Plot (802.11a (UNII Band 2C) – Ch. 140)

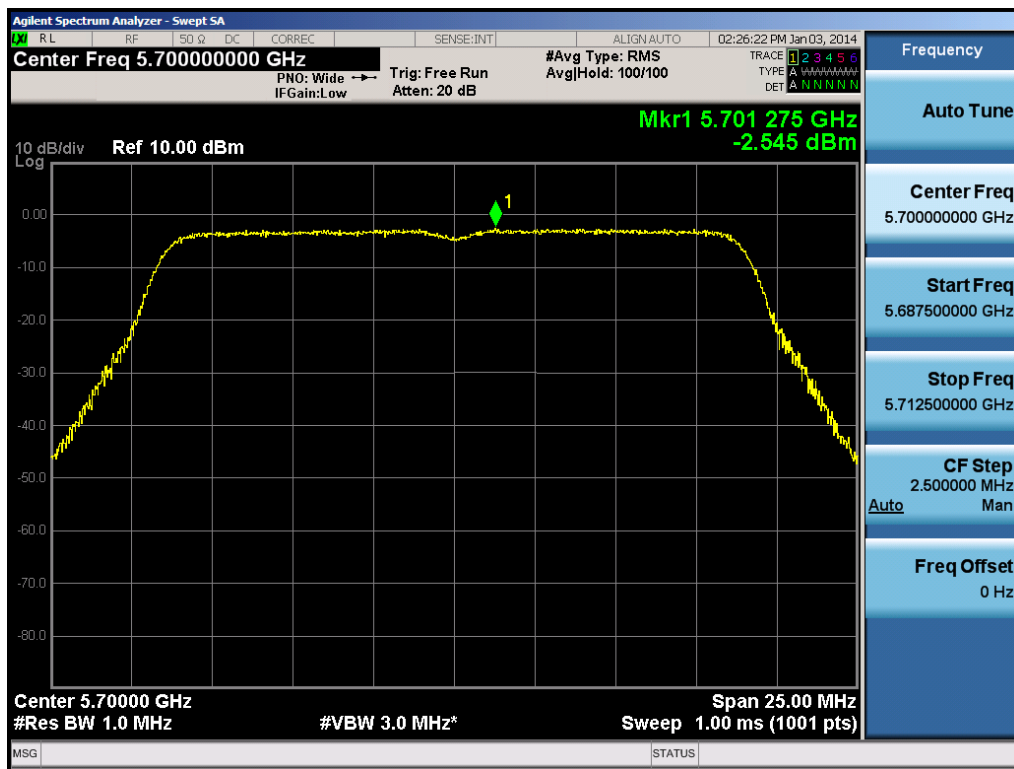


Plot 6-110. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 100)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 78 of 176

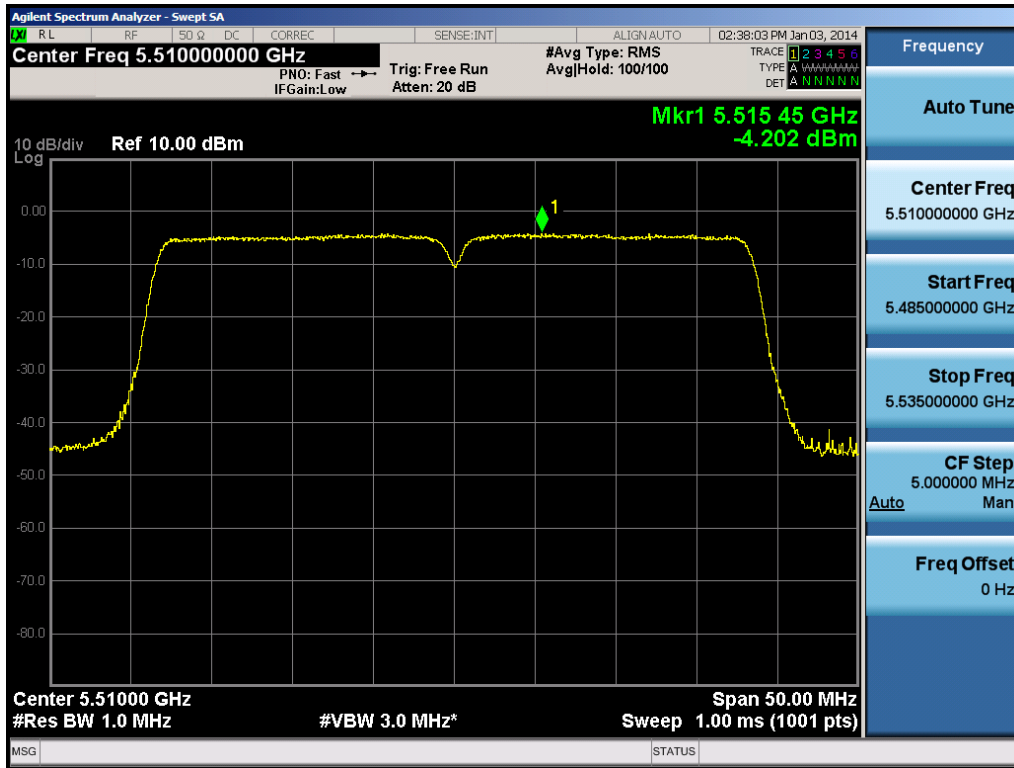


Plot 6-111. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 116)

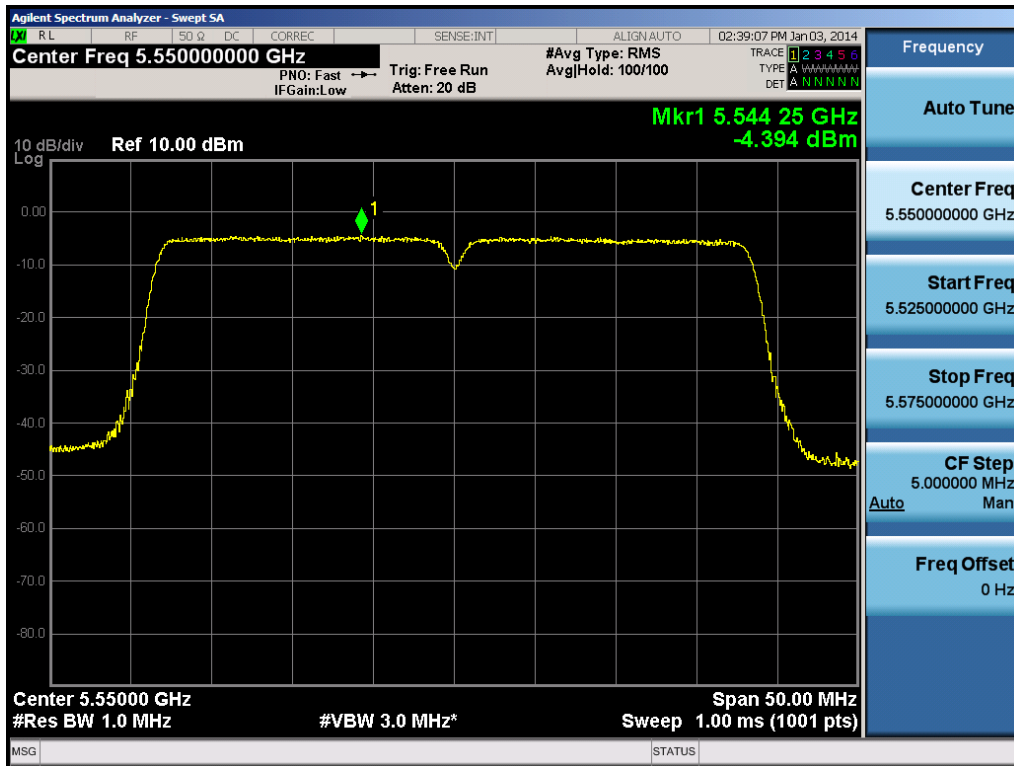


Plot 6-112. Peak Power Spectral Density Plot (20MHz BW 802.11n (UNII Band 2C) – Ch. 140)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 79 of 176

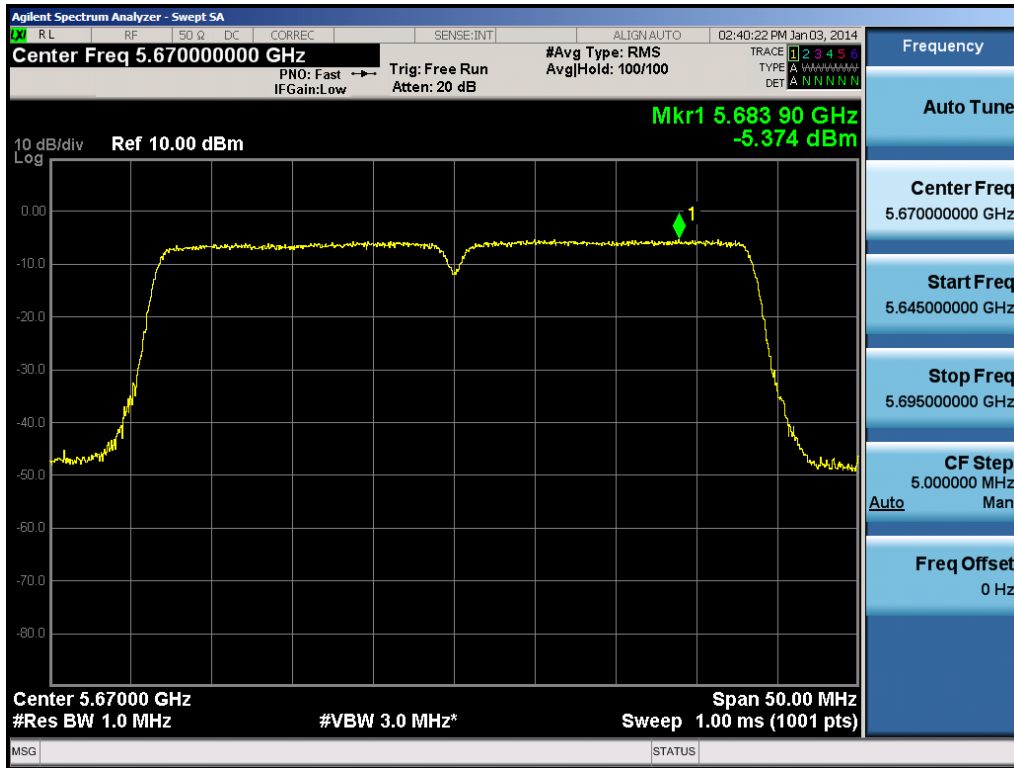


Plot 6-113. Peak Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 102)

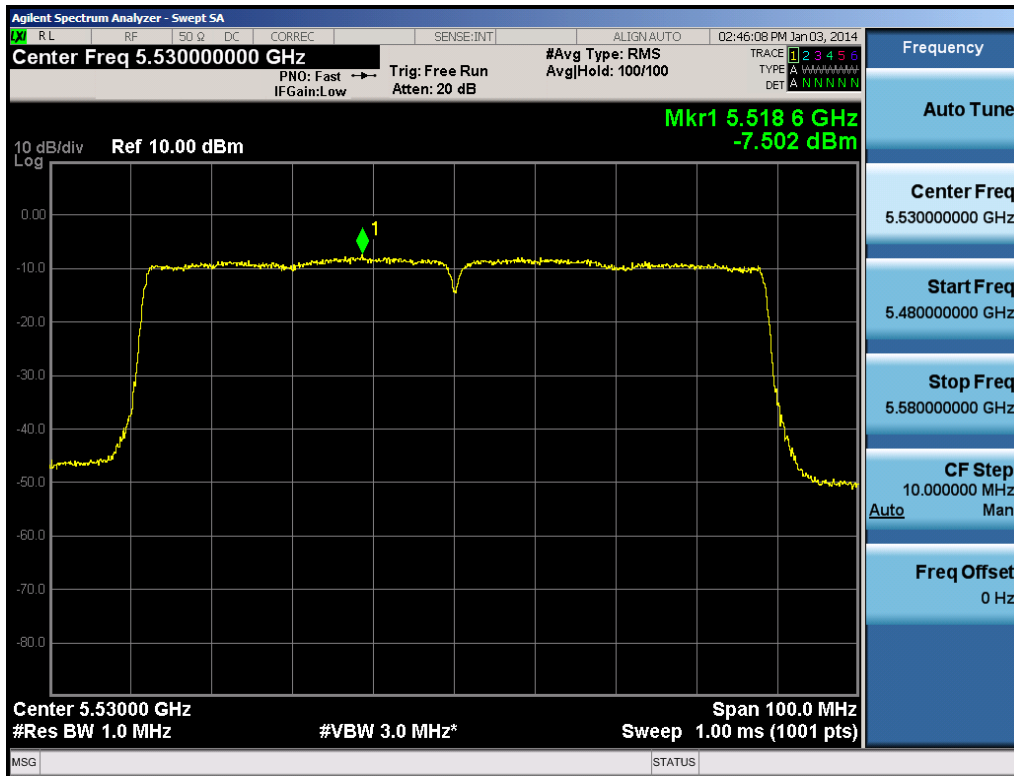


Plot 6-114. Peak Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 110)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 80 of 176



Plot 6-115. Peak Power Spectral Density Plot (40MHz BW 802.11n (UNII Band 2C) – Ch. 134)





Plot 6-116. Peak Power Spectral Density Plot (80MHz BW 802.11ac (UNII Band 2C) – Ch. 106)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 81 of 176

Summed MIMO Power Density Measurements

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Antenna-1 Power Density [dBm]	Antenna-2 Power Density [dBm]	Summed MIMO Power Density [dBm]	Max Permissible Power Density [dBm/MHz]	Margin [dB]
Band 1	5180	36	n (20MHz)	6.5/7.2 (MCS0)	-1.115	-1.920	1.511	4.0	-2.49
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	-1.268	-1.655	1.553	4.0	-2.45
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	-1.077	-1.686	1.639	4.0	-2.36
	5190	38	n (40MHz)	13.5/15 (MCS0)	-4.931	-4.527	-1.714	4.0	-5.71
	5230	46	n (40MHz)	13.5/15 (MCS0)	-5.253	-4.246	-1.710	4.0	-5.71
	5210	42	ac (80MHz)	29.3/32.5 (MCS0)	-8.653	-8.295	-5.460	4.0	-9.46
Band 2A	5260	52	n (20MHz)	6.5/7.2 (MCS0)	-1.102	-1.970	1.496	11.0	-9.50
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	-1.063	-2.124	1.449	11.0	-9.55
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	-2.025	-2.639	0.689	11.0	-10.31
	5270	54	n (40MHz)	13.5/15 (MCS0)	-4.942	-4.990	-1.956	11.0	-12.96
	5310	62	n (40MHz)	13.5/15 (MCS0)	-5.663	-4.999	-2.308	11.0	-13.31
	5290	58	ac (80MHz)	29.3/32.5 (MCS0)	-8.955	-8.643	-5.786	11.0	-16.79
Band 2C	5500	100	n (20MHz)	6.5/7.2 (MCS0)	-0.941	-1.290	1.898	11.0	-9.10
	5580	116	n (20MHz)	6.5/7.2 (MCS0)	-1.747	-2.321	0.986	11.0	-10.01
	5700	140	n (20MHz)	6.5/7.2 (MCS0)	-1.512	-2.545	1.012	11.0	-9.99
	5510	102	n (40MHz)	13.5/15 (MCS0)	-3.986	-4.202	-1.082	11.0	-12.08
	5550	110	n (40MHz)	13.5/15 (MCS0)	-4.393	-4.394	-1.383	11.0	-12.38
	5670	134	n (40MHz)	13.5/15 (MCS0)	-5.152	-5.374	-2.251	11.0	-13.25
	5530	106	ac (80MHz)	29.3/32.5 (MCS0)	-7.303	-7.502	-4.391	11.0	-15.39

Table 6-17. Conducted Power Spectral Density Measurements

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 82 of 176	

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.

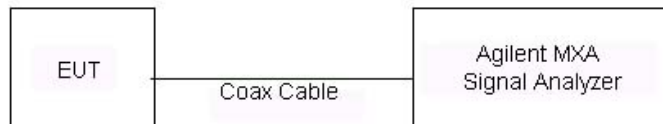




Figure 6-4. Test Instrument & Measurement Setup

Test Notes

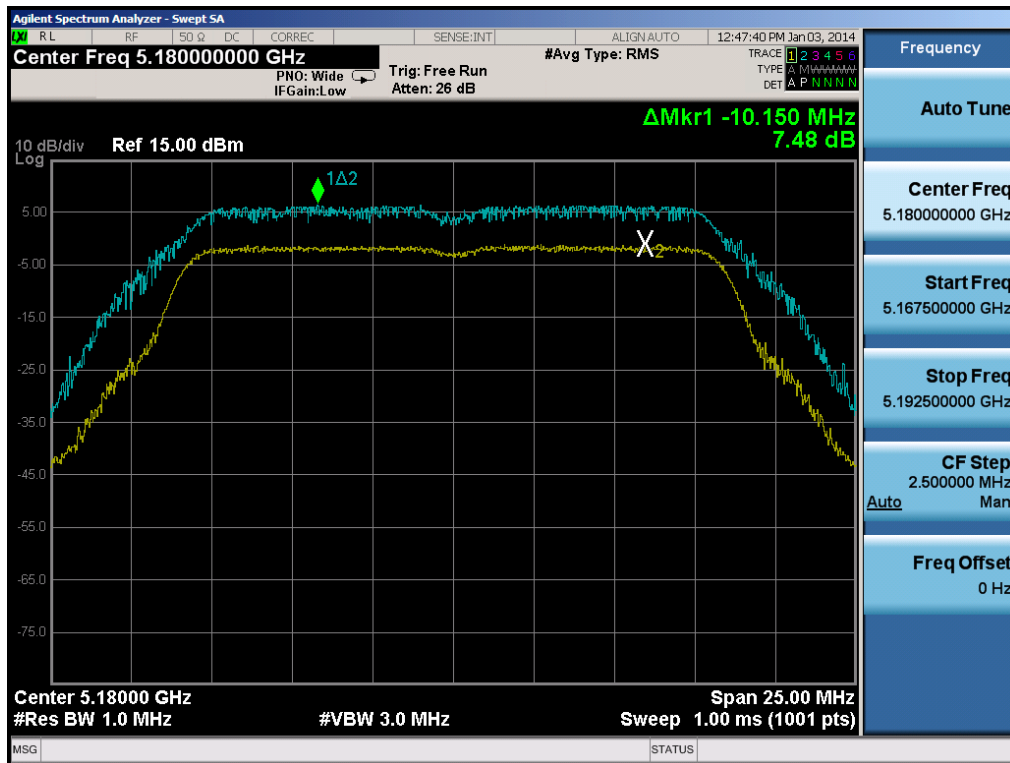
The peak excursion was investigated for all signal types, modulation types, channel bandwidths, and variations in signal parameters and the worst case data is shown below. Only the worst case modulation mode on a single channel among all bands is reported since that is sufficient to demonstrate compliance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

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 83 of 176	

Antenna-1 Peak Excursion Ratio – 802.11a/n/ac

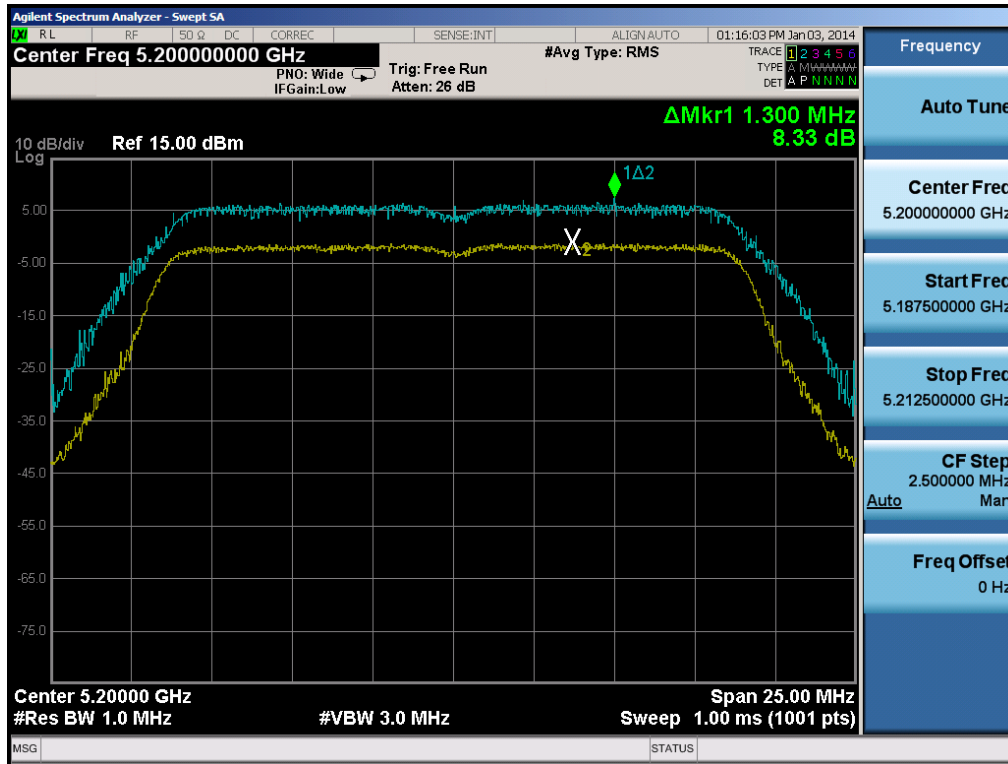
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Peak Excursion Ratio [dBm]	Max Permissible Peak Excursion Ratio [dBm/MHz]	Margin [dB]
5180	36	a	6	7.48	13.0	-5.52
5200	40	n (20MHz)	6.5/7.2 (MCS0)	8.33	13.0	-4.67
5190	38	n (40MHz)	13.5/15 (MCS0)	8.39	13.0	-4.61
5210	42	ac (80MHz)	29.3/32.5 (MCS0)	7.81	13.0	-5.19

Table 6-18. Conducted Peak Excursion Ratio Measurements

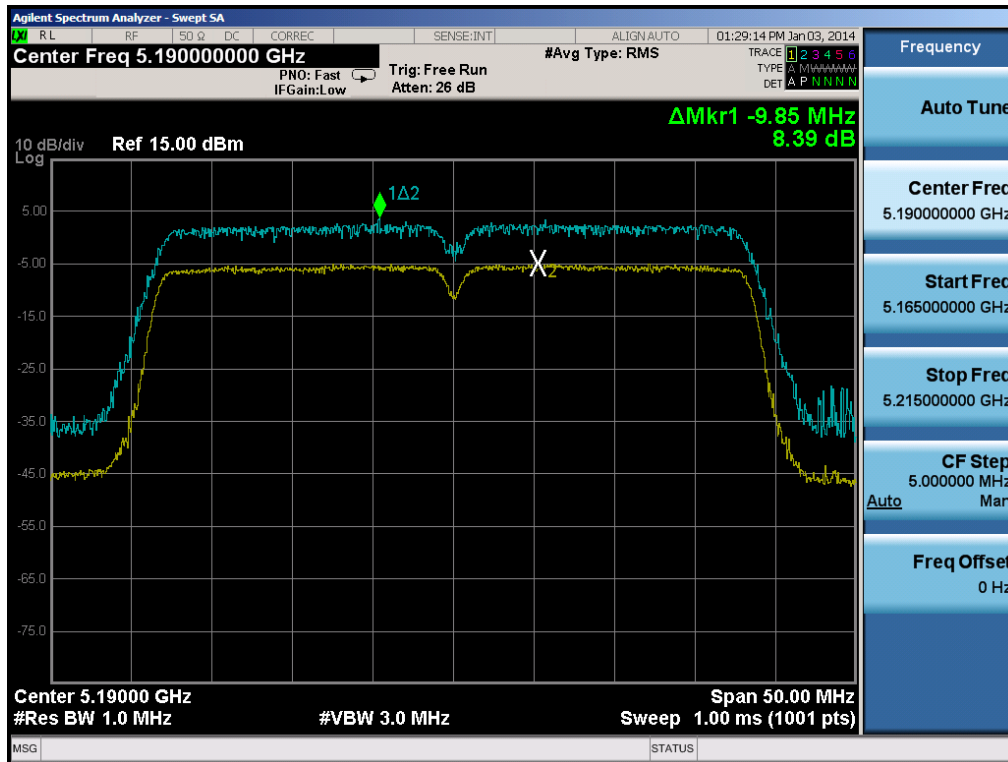


Plot 6-117. Peak Excursion Ratio Plot (802.11a)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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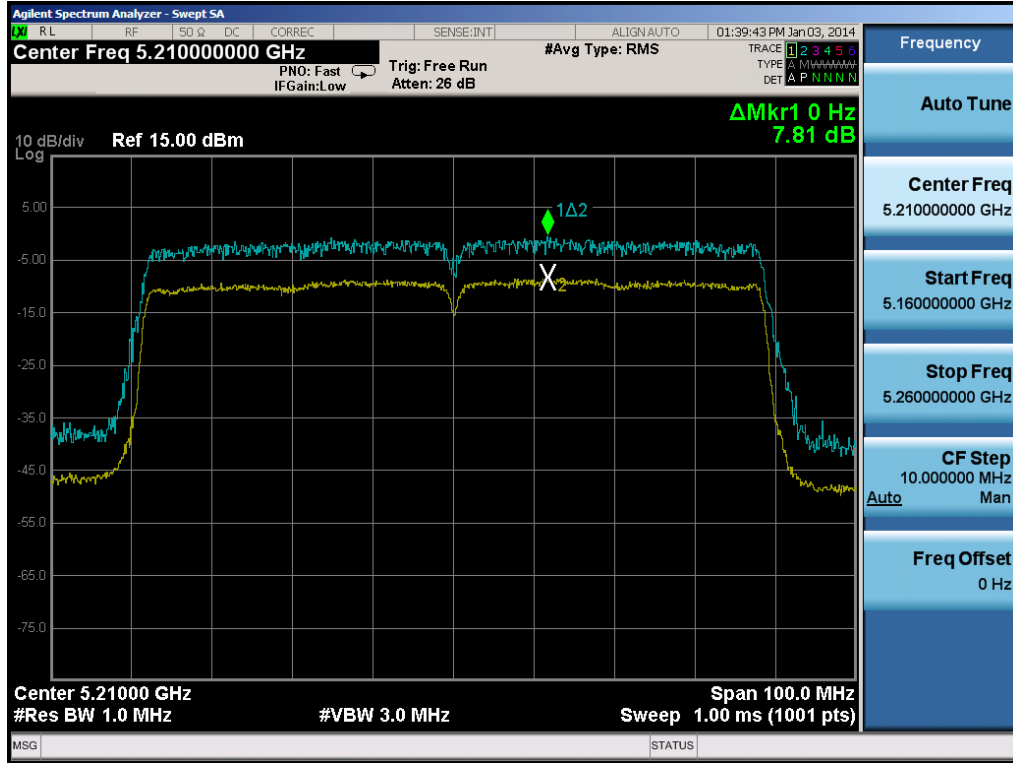


Plot 6-118. Peak Excursion Ratio Plot (20MHz BW 802.11n)





Plot 6-119. Peak Excursion Ratio Plot (40MHz BW 802.11n)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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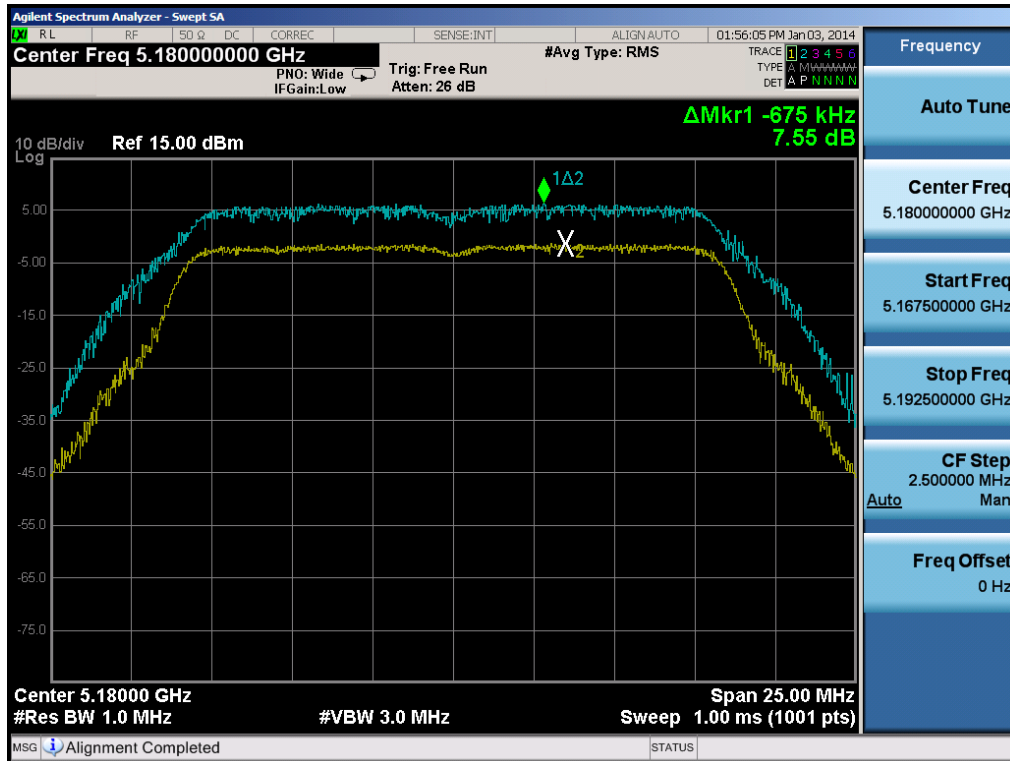
Plot 6-120. Peak Excursion Ratio Plot (80MHz BW 802.11ac)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Antenna-2 Peak Excursion Ratio – 802.11a/n/ac

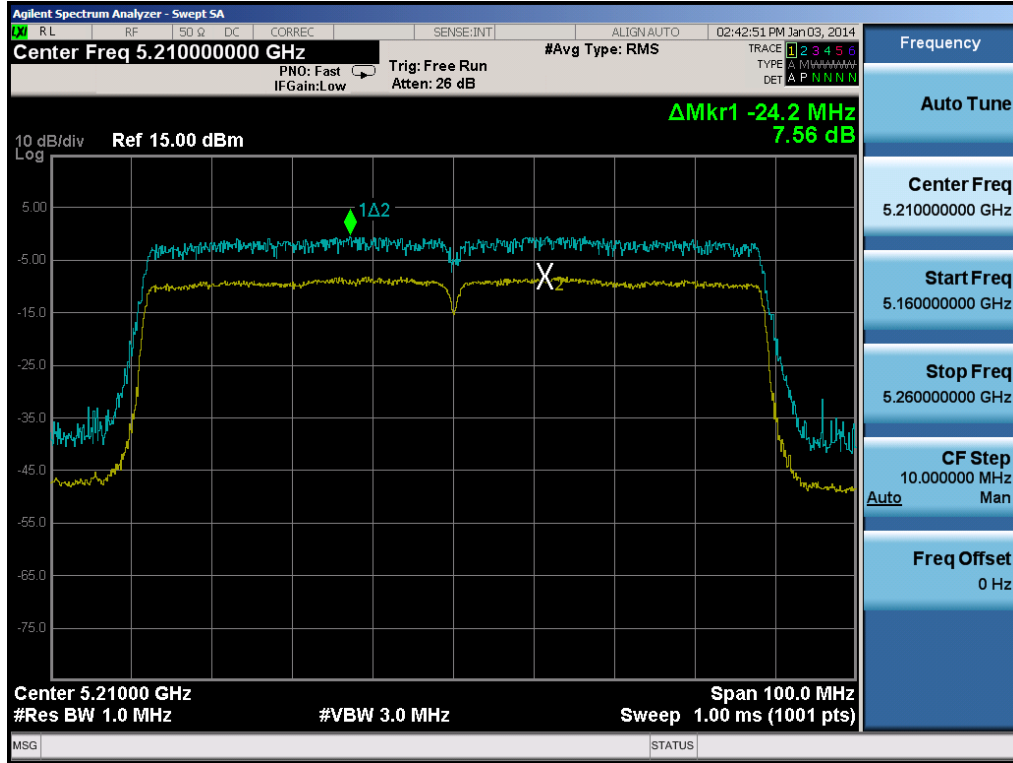
Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Peak Excursion Ratio [dBm]	Max Permissible Peak Excursion Ratio [dBm/MHz]	Margin [dB]
5180	36	a	6	7.55	13.0	-5.45
5180	36	n (20MHz)	6.5/7.2 (MCS0)	7.71	13.0	-5.29
5230	46	n (40MHz)	13.5/15 (MCS0)	8.25	13.0	-4.75
5210	42	ac (80MHz)	29.3/32.5 (MCS0)	7.56	13.0	-5.44

Table 6-19. Conducted Peak Excursion Ratio Measurements





Plot 6-121. Peak Excursion Ratio Plot (802.11a)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Plot 6-124. Peak Excursion Ratio Plot (80MHz BW 802.11ac)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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6.6 Frequency Stability

§15.407(g)

Antenna-1

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: 3.8 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,179,999,996	-4	-0.00000008
100 %		- 30	5,179,999,988	-12	-0.00000023
100 %		- 20	5,179,999,985	-15	-0.00000029
100 %		- 10	5,180,000,026	26	0.00000050
100 %		0	5,180,000,020	20	0.00000039
100 %		+ 10	5,179,999,978	-22	-0.00000042
100 %		+ 20	5,180,000,007	7	0.00000014
100 %		+ 30	5,179,999,981	-19	-0.00000037
100 %		+ 40	5,179,999,978	-22	-0.00000042
100 %		+ 50	5,180,000,005	5	0.00000010
115 %		4.37	+ 20	5,179,999,974	-26
BATT. ENDPOINT	3.40	+ 20	5,180,000,010	10	0.00000019

Table 6-20. 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.

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Frequency Stability (Cont'd)

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



OPERATING FREQUENCY: 5,260,000,000 Hz
 CHANNEL: 52
 REFERENCE VOLTAGE: 3.8 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,259,999,977	-23	-0.00000044
100 %		- 30	5,260,000,025	25	0.00000048
100 %		- 20	5,259,999,989	-11	-0.00000021
100 %		- 10	5,260,000,018	18	0.00000034
100 %		0	5,260,000,027	27	0.00000051
100 %		+ 10	5,260,000,013	13	0.00000025
100 %		+ 20	5,260,000,028	28	0.00000053
100 %		+ 30	5,259,999,995	-5	-0.00000010
100 %		+ 40	5,260,000,027	27	0.00000051
100 %		+ 50	5,259,999,976	-24	-0.00000046
115 %	4.37	+ 20	5,260,000,005	5	0.00000010
BATT. ENDPOINT	3.40	+ 20	5,260,000,006	6	0.00000011

Table 6-21. 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 (Cont'd)

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



OPERATING FREQUENCY: 5,500,000,000 Hz
 CHANNEL: 100
 REFERENCE VOLTAGE: 3.8 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,499,999,970	-30	-0.00000055
100 %		- 30	5,499,999,991	-9	-0.00000016
100 %		- 20	5,499,999,978	-22	-0.00000040
100 %		- 10	5,499,999,974	-26	-0.00000047
100 %		0	5,500,000,021	21	0.00000038
100 %		+ 10	5,499,999,974	-26	-0.00000047
100 %		+ 20	5,499,999,978	-22	-0.00000040
100 %		+ 30	5,499,999,971	-29	-0.00000053
100 %		+ 40	5,499,999,981	-19	-0.00000035
100 %		+ 50	5,499,999,972	-28	-0.00000051
115 %	4.37	+ 20	5,499,999,971	-29	-0.00000053
BATT. ENDPOINT	3.40	+ 20	5,499,999,975	-25	-0.00000045

Table 6-22. Frequency Stability Measurements for UNII Band 2C (Ch. 100)

Note:

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

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Frequency Stability (Cont'd)

§15.407(g)

Antenna-2

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: 3.8 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,179,999,973	-27	-0.00000052
100 %		- 30	5,179,999,974	-26	-0.00000050
100 %		- 20	5,180,000,017	17	0.00000033
100 %		- 10	5,180,000,027	27	0.00000052
100 %		0	5,180,000,009	9	0.00000017
100 %		+ 10	5,180,000,012	12	0.00000023
100 %		+ 20	5,180,000,015	15	0.00000029
100 %		+ 30	5,180,000,021	21	0.00000041
100 %		+ 40	5,179,999,975	-25	-0.00000048
100 %		+ 50	5,179,999,982	-18	-0.00000035
115 %		4.37	+ 20	5,179,999,985	-15
BATT. ENDPOINT	3.40	+ 20	5,180,000,022	22	0.00000042

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 (Cont'd)

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



OPERATING FREQUENCY: 5,260,000,000 Hz
 CHANNEL: 52
 REFERENCE VOLTAGE: 3.8 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,259,999,998	-2	-0.00000004
100 %		- 30	5,259,999,998	-2	-0.00000004
100 %		- 20	5,259,999,984	-16	-0.00000030
100 %		- 10	5,259,999,994	-6	-0.00000011
100 %		0	5,260,000,007	7	0.00000013
100 %		+ 10	5,260,000,018	18	0.00000034
100 %		+ 20	5,260,000,029	29	0.00000055
100 %		+ 30	5,259,999,987	-13	-0.00000025
100 %		+ 40	5,260,000,021	21	0.00000040
100 %		+ 50	5,260,000,000	0	0.00000000
115 %	4.37	+ 20	5,260,000,017	17	0.00000032
BATT. ENDPOINT	3.40	+ 20	5,260,000,022	22	0.00000042

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 (Cont'd)

§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: 3.8 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,499,999,974	-26	-0.00000047
100 %		- 30	5,500,000,025	25	0.00000045
100 %		- 20	5,500,000,029	29	0.00000053
100 %		- 10	5,499,999,991	-9	-0.00000016
100 %		0	5,499,999,971	-29	-0.00000053
100 %		+ 10	5,500,000,003	3	0.00000005
100 %		+ 20	5,499,999,977	-23	-0.00000042
100 %		+ 30	5,499,999,999	-1	-0.00000002
100 %		+ 40	5,500,000,005	5	0.00000009
100 %		+ 50	5,500,000,001	1	0.00000002
115 %	4.37	+ 20	5,500,000,024	24	0.00000044
BATT. ENDPOINT	3.40	+ 20	5,500,000,009	9	0.00000016

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), (6), §15.205, §15.209; RSS-210 [A9.2]

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 6-26 per Section 15.209.

Frequency	Field Strength [μ V/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 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

Average Measurements above 1GHz using integration method

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 100kHz
3. VBW = 300kHz
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
9. Used channel power function on analyzer with integration bandwidth of 1MHz

Peak Measurements above 1GHz using integration method

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize
8. Used channel power function on analyzer with integration bandwidth of 1MHz

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Test Setup

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

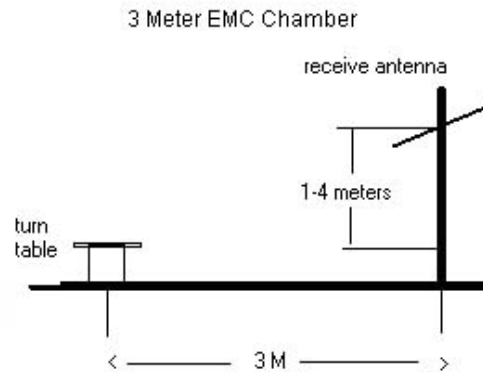




Figure 6-5. Test Instrument & Measurement Setup

Test Notes

1. All radiated spurious emissions levels were measured in a radiated test setup per the guidance of KDB 789033 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 μ 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 μ 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.
8. Average levels at -135dBm and peak levels at -125dBm represent the analyzer noise floor and signify that no emission was detected.

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Sample Calculations



Determining Spurious Emissions Levels

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

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:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + 10 \text{ dB Attenuator}) - \text{Preamplifier Gain}$$

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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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	-102.73	Peak	H	46.44	50.71	68.20	-17.49
* 15540.00	-135.00	Average	H	51.12	23.12	53.98	-30.86
* 15540.00	-125.00	Peak	H	51.12	33.12	73.98	-40.86
* 20720.00	-135.00	Average	H	44.04	16.04	53.98	-37.94
* 20720.00	-125.00	Peak	H	44.04	26.04	73.98	-47.94
25900.00	-125.00	Peak	H	44.84	26.84	68.20	-41.36

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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	-103.90	Peak	H	46.65	49.75	68.20	-18.45
* 15600.00	-135.00	Average	H	51.11	23.11	53.98	-30.87
* 15600.00	-125.00	Peak	H	51.11	33.11	73.98	-40.87
* 20800.00	-135.00	Average	H	44.03	16.03	53.98	-37.95
* 20800.00	-125.00	Peak	H	44.03	26.03	73.98	-47.95
26000.00	-125.00	Peak	H	44.96	26.96	68.20	-41.24

Table 6-28. Radiated Measurements

FCC ID: A3LSMP905V		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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	-104.29	Peak	H	46.65	49.36	68.20	-18.84
* 15720.00	-135.00	Average	H	51.40	23.40	53.98	-30.58
* 15720.00	-125.00	Peak	H	51.40	33.40	73.98	-40.58
* 20960.00	-135.00	Average	H	44.00	16.00	53.98	-37.98
* 20960.00	-125.00	Peak	H	44.00	26.00	73.98	-47.98
26200.00	-125.00	Peak	H	44.75	26.75	68.20	-41.45

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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	-104.79	Peak	H	46.71	48.92	68.20	-19.28
* 15780.00	-135.00	Average	H	51.48	23.48	53.98	-30.50
* 15780.00	-125.00	Peak	H	51.48	33.48	73.98	-40.50
* 21040.00	-135.00	Average	H	43.95	15.95	53.98	-38.03
* 21040.00	-125.00	Peak	H	43.95	25.95	73.98	-48.03
26300.00	-125.00	Peak	H	44.78	26.78	68.20	-41.42

Table 6-30. Radiated Measurements

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	-105.23	Peak	H	46.84	48.61	68.20	-19.59
* 15840.00	-135.00	Average	H	51.38	23.38	53.98	-30.60
* 15840.00	-125.00	Peak	H	51.38	33.38	73.98	-40.60
* 21120.00	-135.00	Average	H	43.83	15.83	53.98	-38.15
* 21120.00	-125.00	Peak	H	43.83	25.83	73.98	-48.15
26400.00	-125.00	Peak	H	44.72	26.72	68.20	-41.48

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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	-116.77	Average	H	46.94	37.17	53.98	-16.81
* 10640.00	-104.76	Peak	H	46.94	49.18	73.98	-24.80
* 15960.00	-135.00	Average	H	51.55	23.55	53.98	-30.43
* 15960.00	-125.00	Peak	H	51.55	33.55	73.98	-40.43
* 21280.00	-135.00	Average	H	43.71	15.71	53.98	-38.27
* 21280.00	-125.00	Peak	H	43.71	25.71	73.98	-48.27
26600.00	-125.00	Peak	H	47.29	29.29	68.20	-38.91

Table 6-32. Radiated Measurements

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	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	-117.64	Average	H	46.89	0.00	36.25	53.98	-17.73
* 11000.00	-104.84	Peak	H	46.89	0.00	49.05	73.98	-24.93
16500.00	-125.00	Peak	H	52.96	0.00	34.96	68.20	-33.24
22000.00	-102.26	Peak	H	43.95	-9.54	39.15	68.20	-29.05
27500.00	-125.00	Peak	H	48.50	0.00	30.50	68.20	-37.70

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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11160.00	-116.91	Average	H	47.07	37.16	53.98	-16.82
* 11160.00	-104.58	Peak	H	47.07	49.49	73.98	-24.49
16740.00	-125.00	Peak	H	53.12	35.12	68.20	-33.08
* 22320.00	-135.00	Average	H	44.47	16.47	53.98	-37.50
* 22320.00	-125.00	Peak	H	44.47	26.47	73.98	-47.50
27900.00	-125.00	Peak	H	48.02	30.02	68.20	-38.18



Table 6-34. Radiated Measurements

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 103 of 176	

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	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11400.00	-118.29	Average	H	47.30	36.01	53.98	-17.97
* 11400.00	-106.48	Peak	H	47.30	47.82	73.98	-26.16
17100.00	-125.00	Peak	H	53.07	35.07	68.20	-33.13
* 22800.00	-135.00	Average	H	44.47	16.47	53.98	-37.51
* 22800.00	-125.00	Peak	H	44.47	26.47	73.98	-47.51
28500.00	-125.00	Peak	H	48.08	30.08	68.20	-38.12

Table 6-35. Radiated Measurements

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 104 of 176	

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	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10360.00	-91.34	Peak	H	46.44	0.00	62.10	68.20	-6.10
* 15540.00	-135.00	Average	H	51.12	0.00	23.12	53.98	-30.86
* 15540.00	-125.00	Peak	H	51.12	0.00	33.12	73.98	-40.86
* 20720.00	-111.74	Average	H	44.04	-9.54	29.76	53.98	-24.22
* 20720.00	-103.14	Peak	H	44.04	-9.54	38.36	73.98	-35.62
25900.00	-125.00	Peak	H	44.84	0.00	26.84	68.20	-41.36

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	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10400.00	-90.24	Peak	H	46.65	0.00	63.41	68.20	-4.79
* 15600.00	-135.00	Average	H	51.11	0.00	23.11	53.98	-30.87
* 15600.00	-125.00	Peak	H	51.11	0.00	33.11	73.98	-40.87
* 20800.00	-110.36	Average	H	44.03	-9.54	31.13	53.98	-22.85
* 20800.00	-102.13	Peak	H	44.03	-9.54	39.36	73.98	-34.62
26000.00	-125.00	Peak	H	44.96	0.00	26.96	68.20	-41.24

Table 6-37. Radiated Measurements

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 105 of 176	

Radiated Spurious Emission Measurements (Cont'd)

§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: 5240MHz
 Channel: 48



Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	-89.40	Peak	H	46.65	0.00	64.25	68.20	-3.95
* 15720.00	-135.00	Average	H	51.40	0.00	23.40	53.98	-30.58
* 15720.00	-125.00	Peak	H	51.40	0.00	33.40	73.98	-40.58
* 20960.00	-110.47	Average	H	44.00	-9.54	30.98	53.98	-23.00
* 20960.00	-103.01	Peak	H	44.00	-9.54	38.44	73.98	-35.54
26200.00	-125.00	Peak	H	44.75	0.00	26.75	68.20	-41.45

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	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	-90.59	Peak	H	46.71	0.00	63.12	68.20	-5.08
* 15780.00	-135.00	Average	H	51.48	0.00	23.48	53.98	-30.50
* 15780.00	-125.00	Peak	H	51.48	0.00	33.48	73.98	-40.50
* 21040.00	-111.49	Average	H	43.95	-9.54	29.92	53.98	-24.06
* 21040.00	-102.92	Peak	H	43.95	-9.54	38.49	73.98	-35.49
26300.00	-125.00	Peak	H	44.78	0.00	26.78	68.20	-41.42

Table 6-39. Radiated Measurements

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 106 of 176	

Radiated Spurious Emission Measurements (Cont'd)

§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: 5280MHz
 Channel: 56



Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	-89.92	Peak	H	46.84	0.00	63.92	68.20	-4.28
* 15840.00	-135.00	Average	H	51.38	0.00	23.38	53.98	-30.60
* 15840.00	-125.00	Peak	H	51.38	0.00	33.38	73.98	-40.60
* 21120.00	-111.87	Average	H	43.83	-9.54	29.42	53.98	-24.56
* 21120.00	-104.28	Peak	H	43.83	-9.54	37.01	73.98	-36.97
26400.00	-125.00	Peak	H	44.72	0.00	26.72	68.20	-41.48

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	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	-102.82	Average	H	46.94	0.00	51.12	53.98	-2.86
* 10640.00	-89.09	Peak	H	46.94	0.00	64.85	73.98	-9.13
* 15960.00	-135.00	Average	H	51.55	0.00	23.55	53.98	-30.43
* 15960.00	-125.00	Peak	H	51.55	0.00	33.55	73.98	-40.43
* 21280.00	-111.69	Average	H	43.71	-9.54	29.48	53.98	-24.50
* 21280.00	-102.99	Peak	H	43.71	-9.54	38.18	73.98	-35.80
26600.00	-125.00	Peak	H	47.29	0.00	29.29	68.20	-38.91

Table 6-41. Radiated Measurements

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 107 of 176	

Radiated Spurious Emission Measurements (Cont'd)

§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: 5500MHz
 Channel: 100



Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	-103.29	Average	H	46.89	0.00	50.60	53.98	-3.38
* 11000.00	-90.54	Peak	H	46.89	0.00	63.35	73.98	-10.63
16500.00	-125.00	Peak	H	52.96	0.00	34.96	68.20	-33.24
22000.00	-103.21	Peak	H	43.95	-9.54	38.20	68.20	-30.00
27500.00	-125.00	Peak	H	48.50	0.00	30.50	68.20	-37.70

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	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11160.00	-106.12	Average	H	47.07	0.00	47.95	53.98	-6.03
* 11160.00	-92.97	Peak	H	47.07	0.00	61.10	73.98	-12.88
16740.00	-125.00	Peak	H	53.12	0.00	35.12	68.20	-33.08
* 22320.00	-110.42	Average	H	44.47	-9.54	31.51	53.98	-22.47
* 22320.00	-102.89	Peak	H	44.47	-9.54	39.04	73.98	-34.94
27900.00	-125.00	Peak	H	48.02	0.00	30.02	68.20	-38.18

Table 6-43. Radiated Measurements



FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 108 of 176	

Radiated Spurious Emission Measurements (Cont'd)
§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: 5700MHz
 Channel: 140

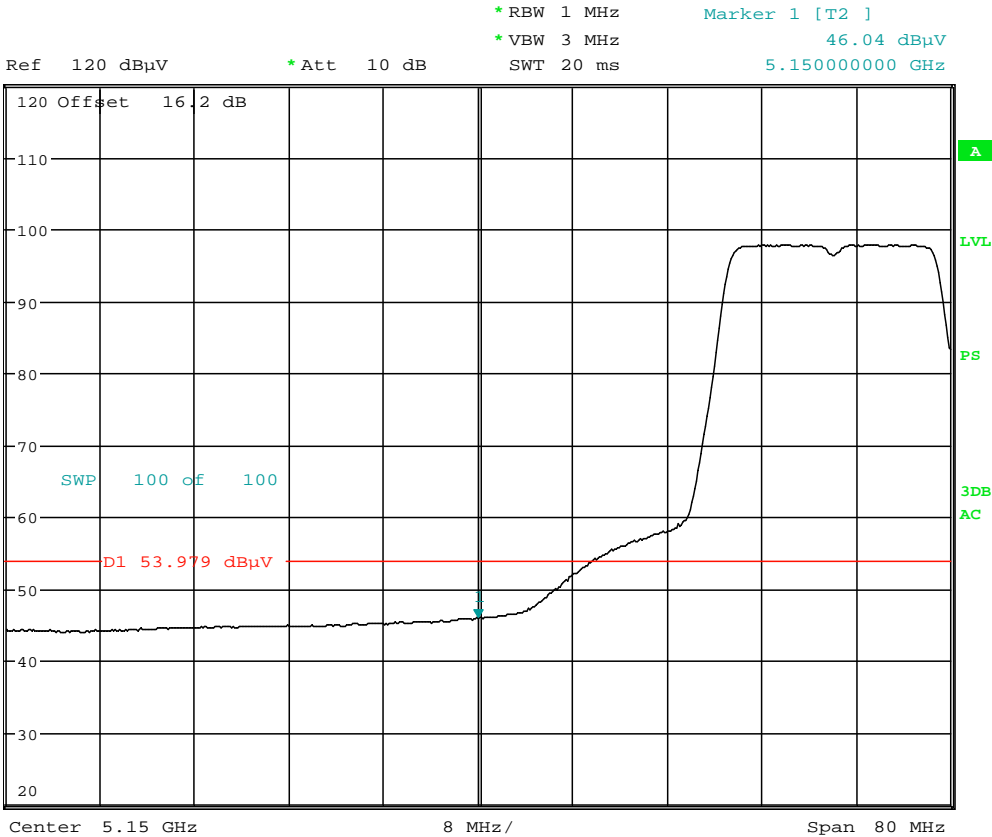
Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11400.00	-109.09	Average	H	47.30	0.00	45.21	53.98	-8.77
* 11400.00	-96.10	Peak	H	47.30	0.00	58.20	73.98	-15.78
17100.00	-125.00	Peak	H	53.07	0.00	35.07	68.20	-33.13
* 22800.00	-111.85	Average	H	44.47	-9.54	30.08	53.98	-23.90
* 22800.00	-103.91	Peak	H	44.47	-9.54	38.02	73.98	-35.96
28500.00	-125.00	Peak	H	48.08	0.00	30.08	68.20	-38.12

Table 6-44. Radiated Measurements

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 109 of 176	

6.8 Antenna-1 Radiated Band Edge Measurements (20MHz BW) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

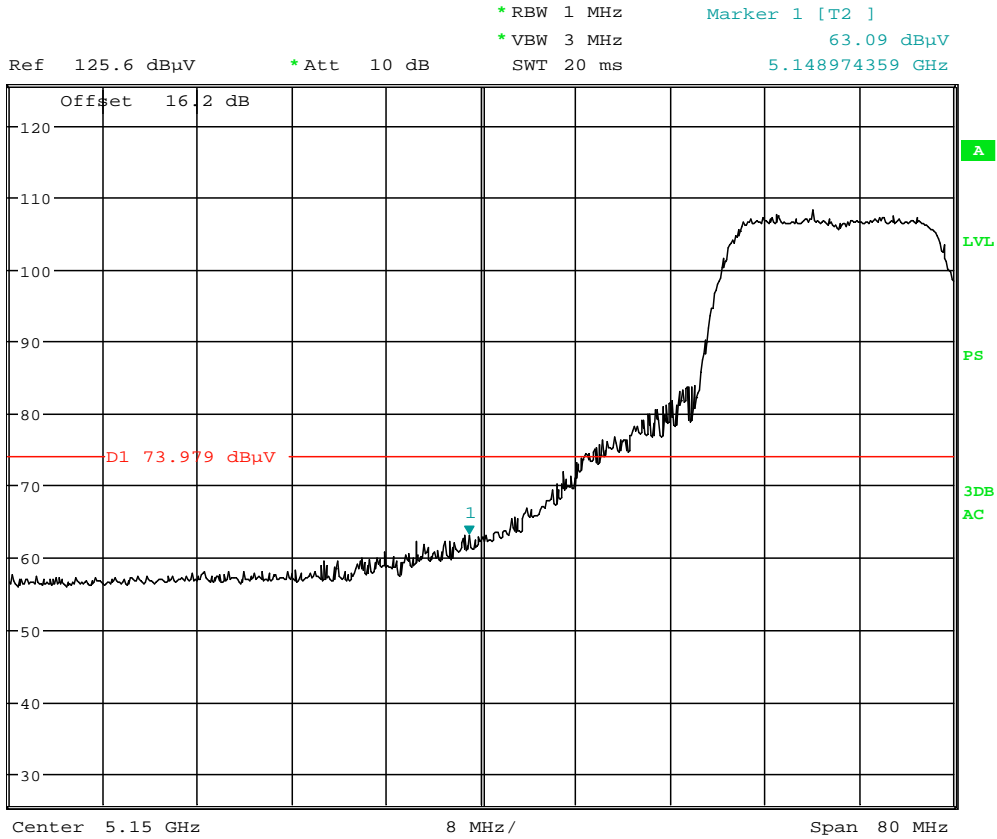


Date: 2.JAN.2014 09:18:09

Plot 6-125. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 110 of 176

Radiated Band Edge Measurements (20MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



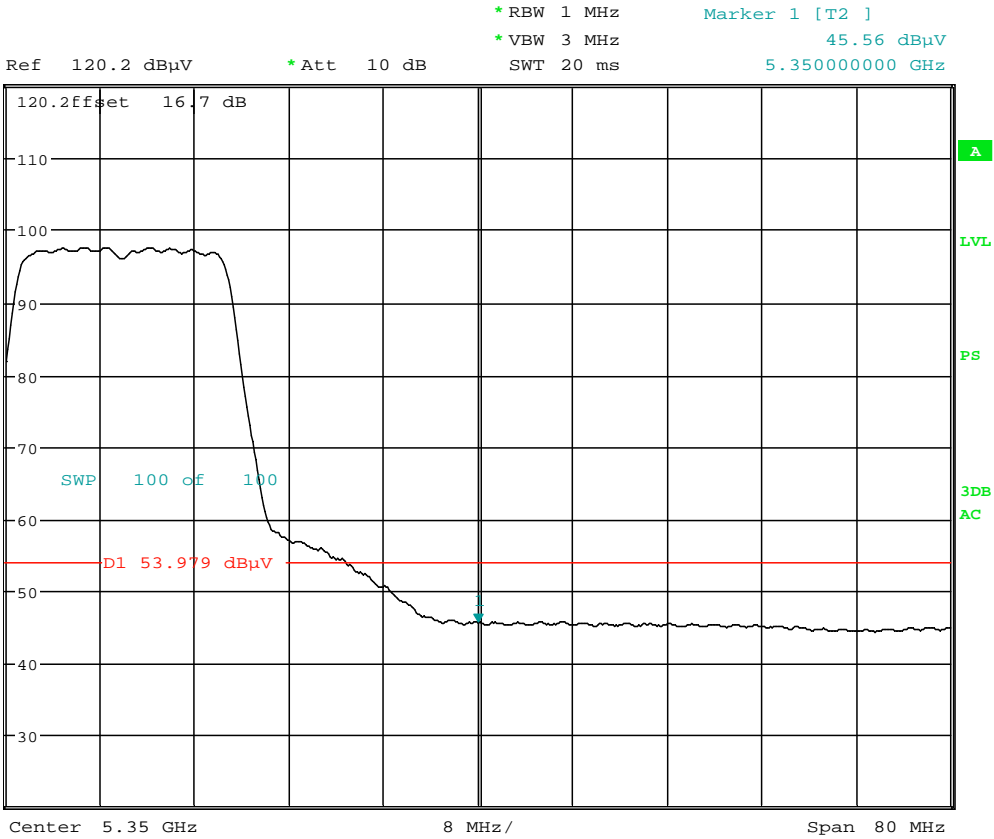
Date: 2.JAN.2014 09:13:42

Plot 6-126. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 111 of 176

Radiated Band Edge Measurements (20MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64



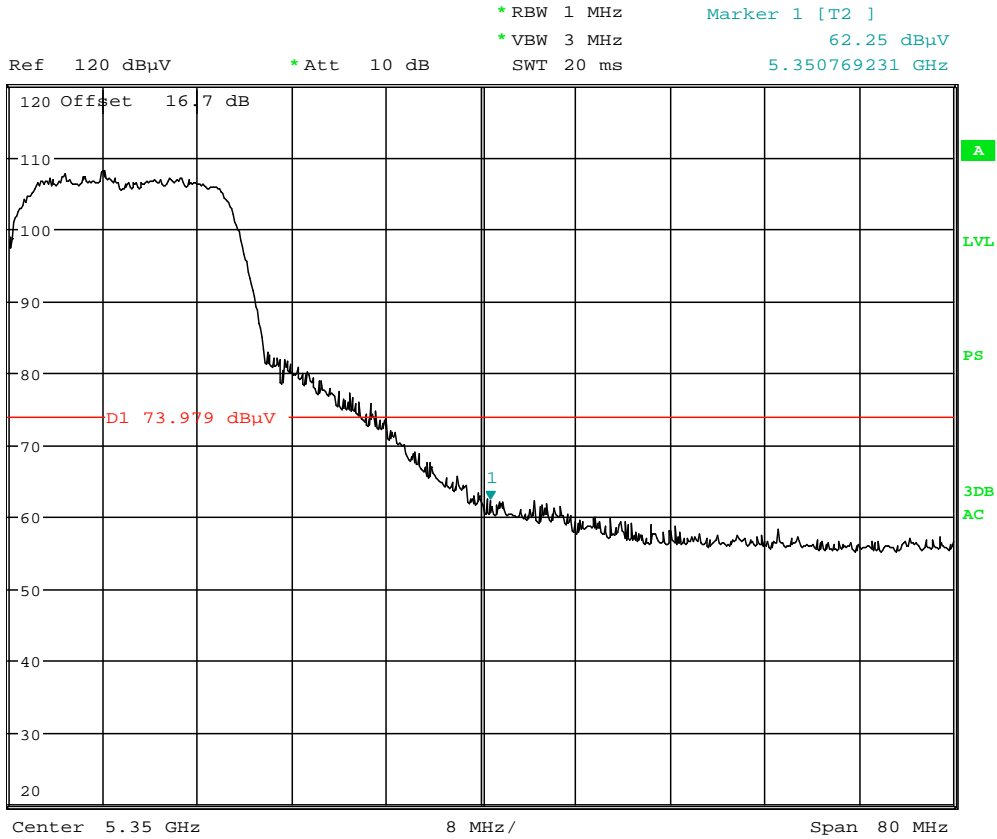
Date: 2.JAN.2014 10:00:58

Plot 6-127. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 112 of 176	

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

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



Date: 2.JAN.2014 09:59:43

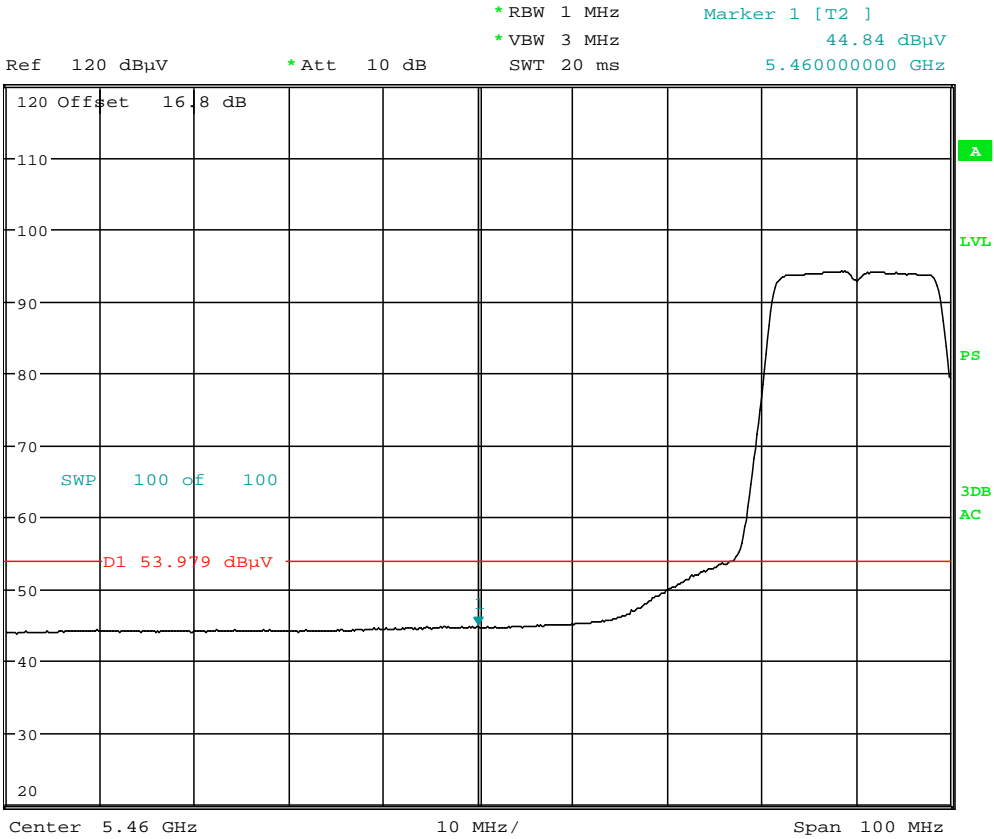
Plot 6-128. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 113 of 176

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

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

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

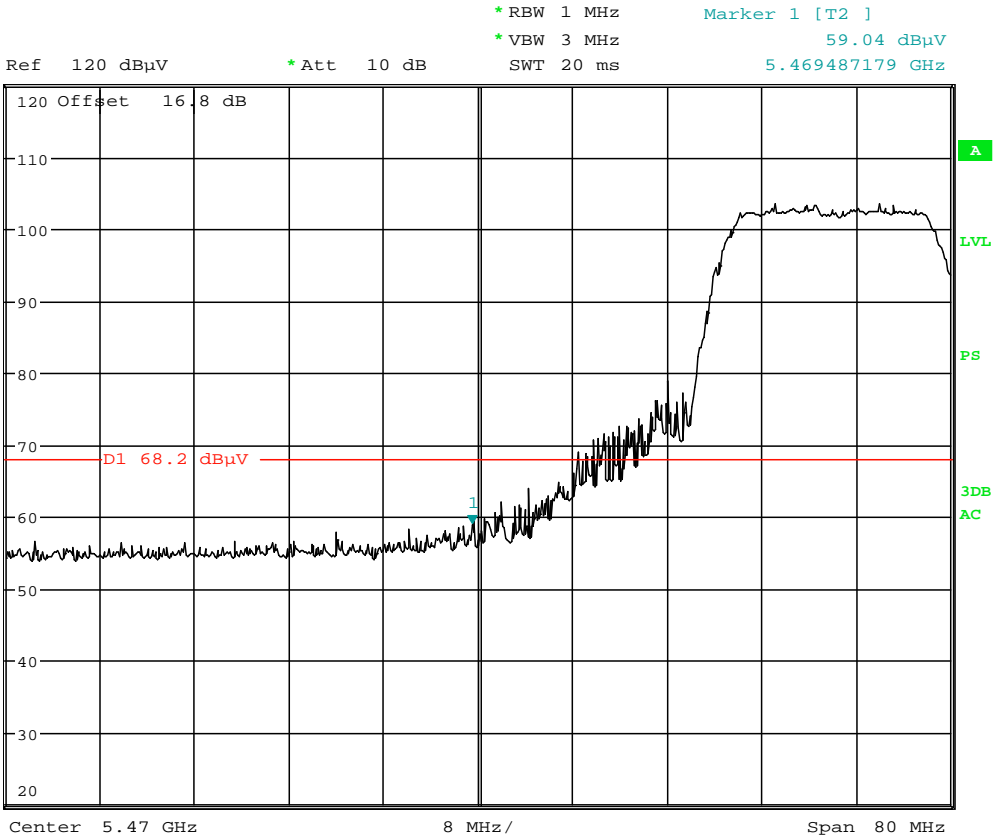


Date: 2.JAN.2014 10:29:44

Plot 6-129. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 114 of 176	

Radiated Band Edge Measurements (20MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 2.JAN.2014 10:27:03

Plot 6-130. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 115 of 176

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

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

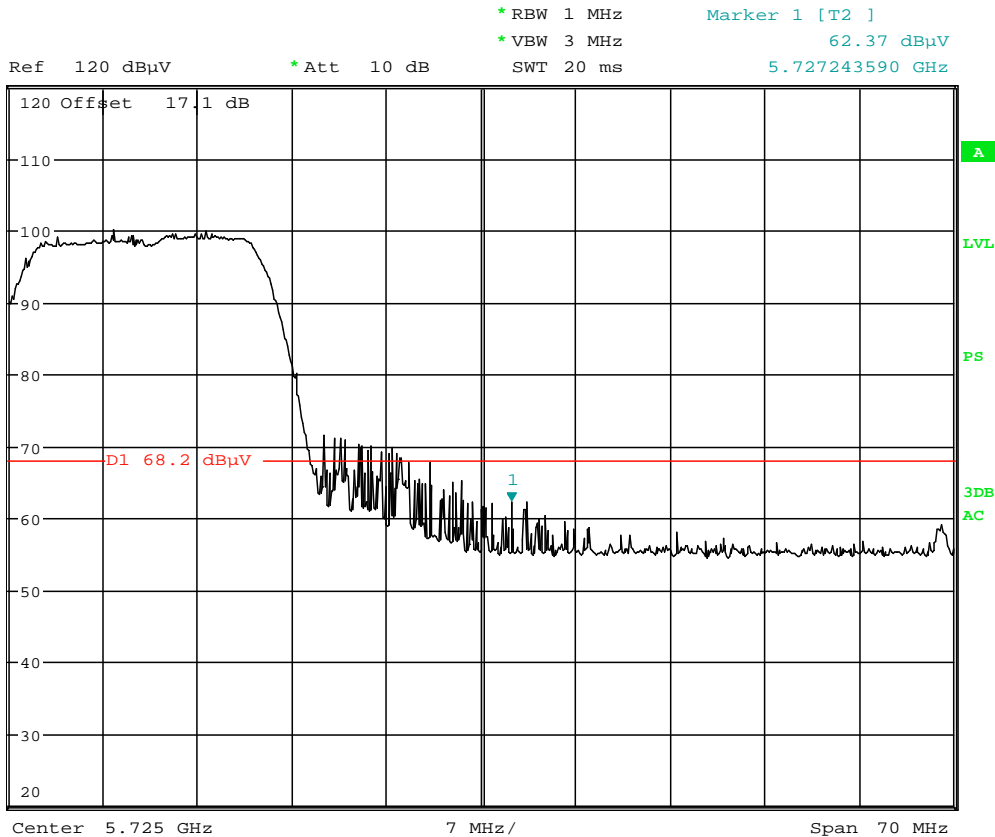
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5700MHz

Channel: 140



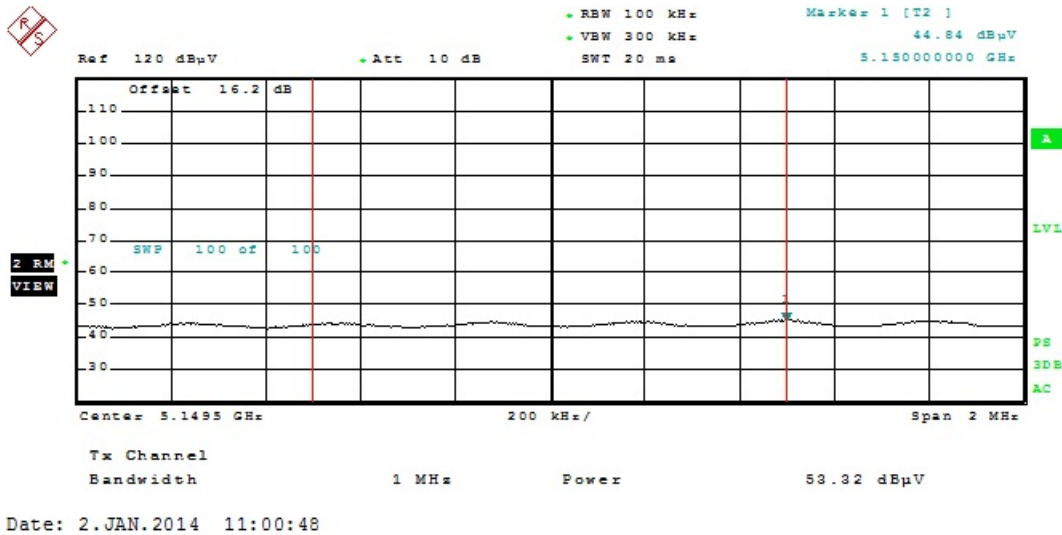
Date: 2.JAN.2014 10:46:39

Plot 6-131. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 116 of 176

Radiated Band Edge Measurements (40MHz BW)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11ac (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5190MHz
 Channel: 38



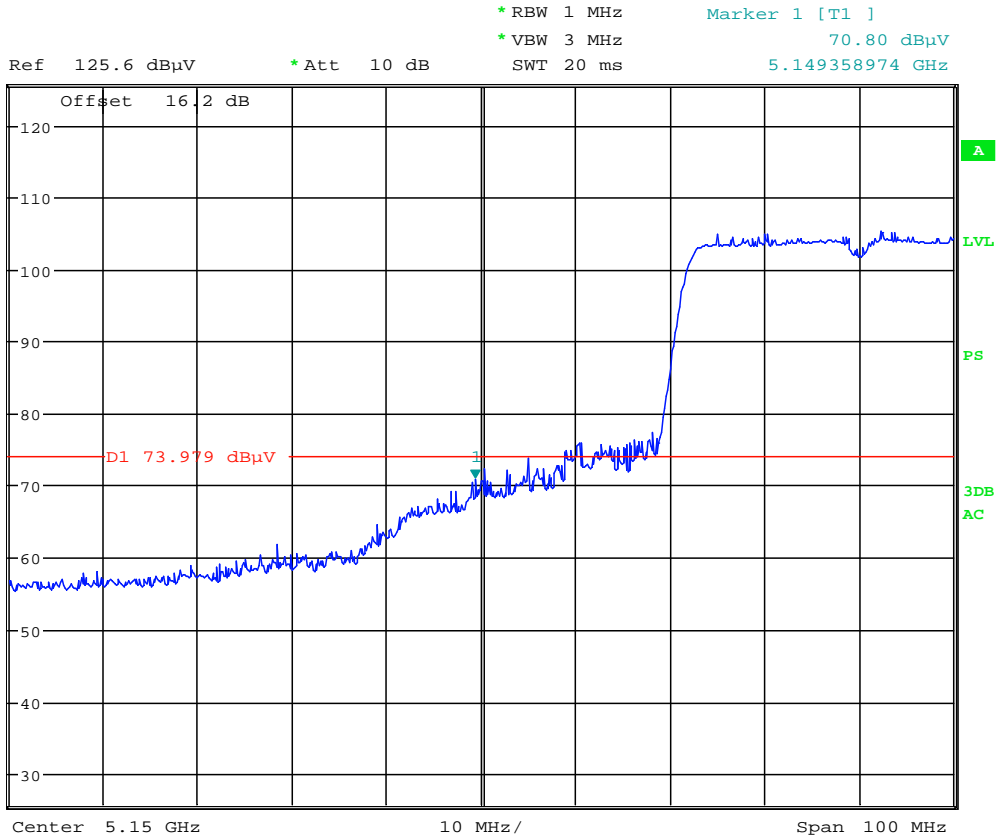
Plot 6-132. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

Note:

A channel integration method was used to determine compliance with the out of band average radiated spurious emissions limit in the 4500 – 5150MHz band. Per KDB 789033 Section H, a measurement was performed using a RBW of 100kHz at the 5150MHz band edge. The results were integrated up to the 1MHz reference bandwidth to show compliance with the 15.209 radiated limit for emissions greater than 1GHz.

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 117 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



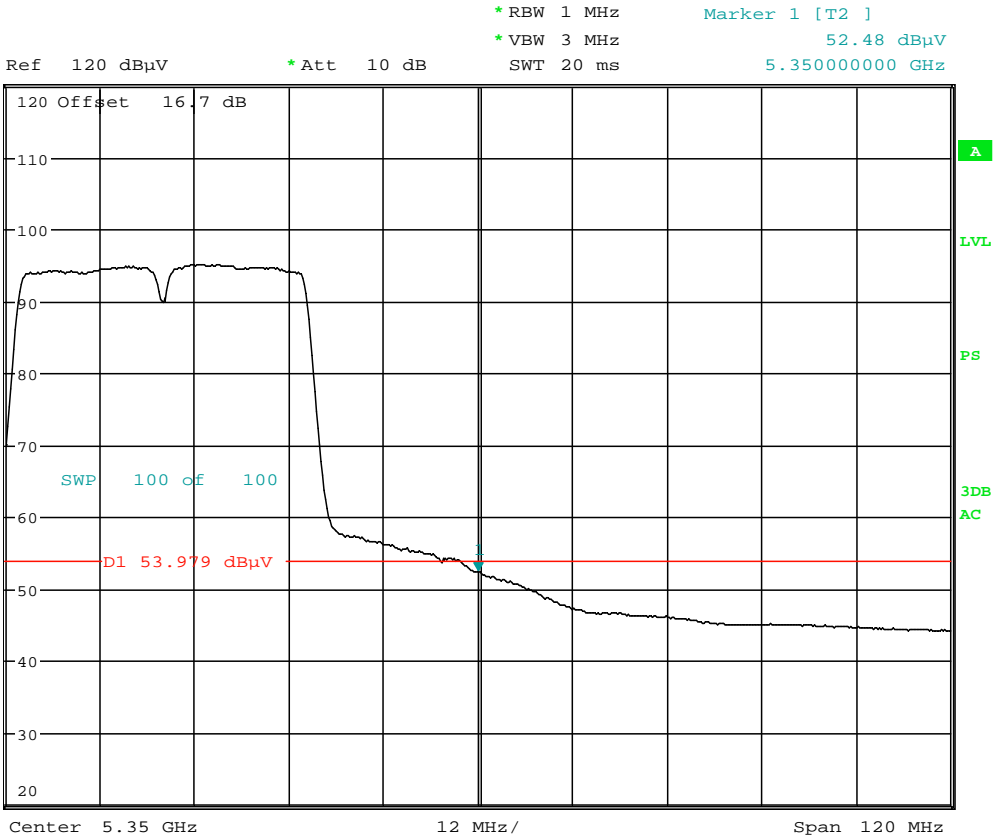
Date: 2.JAN.2014 09:24:12

Plot 6-133. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 118 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11ac (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5310MHz
 Channel: 62

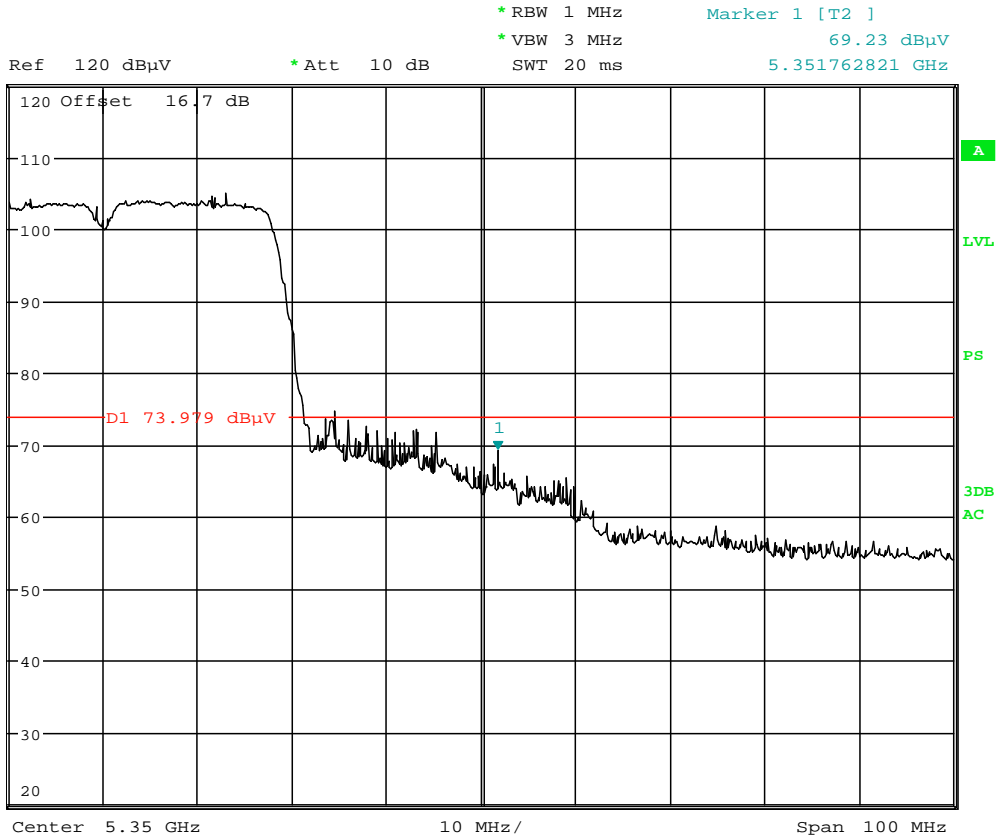


Date: 2.JAN.2014 10:07:19

Plot 6-134. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 119 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 2.JAN.2014 10:05:36

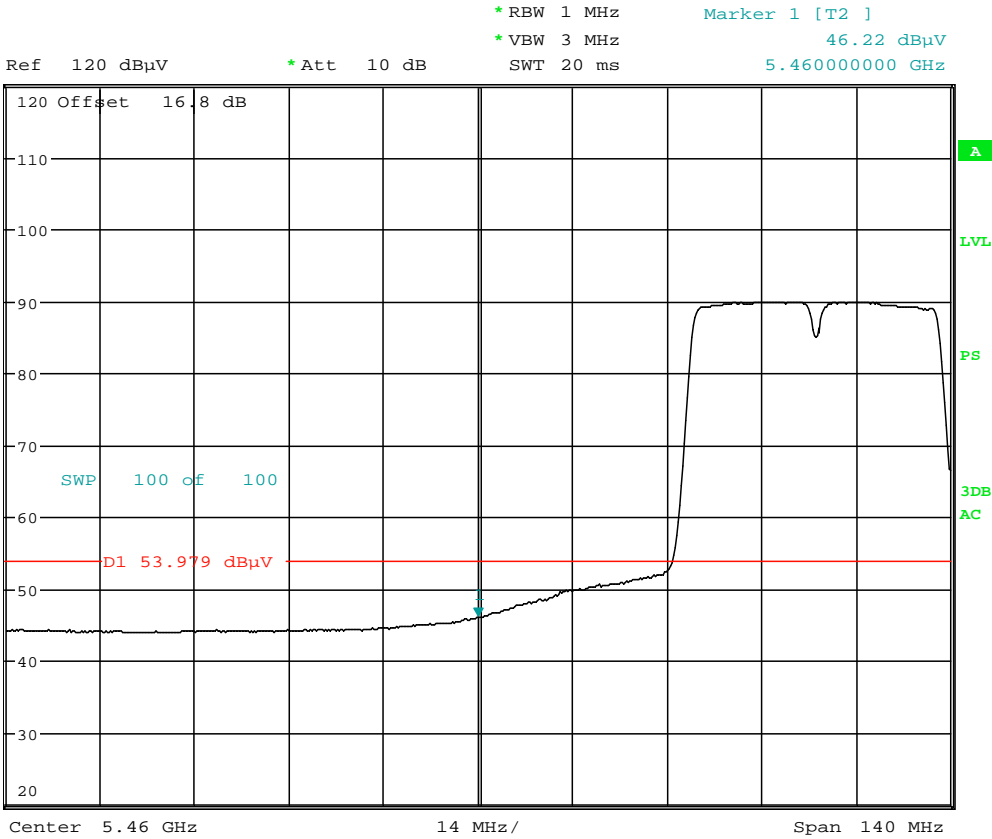
Plot 6-135. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 120 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

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

Worst Case Mode: 802.11ac (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

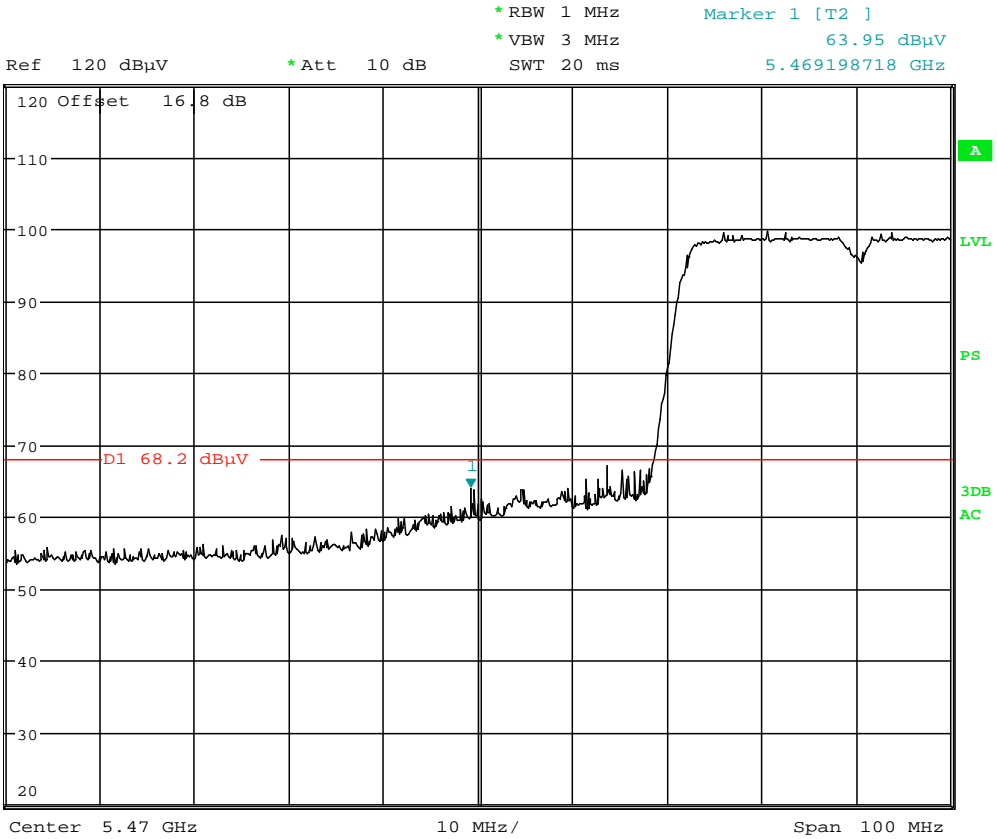


Date: 2.JAN.2014 10:36:04

Plot 6-136. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 121 of 176	

Radiated Band Edge Measurements (40MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 2.JAN.2014 10:34:56

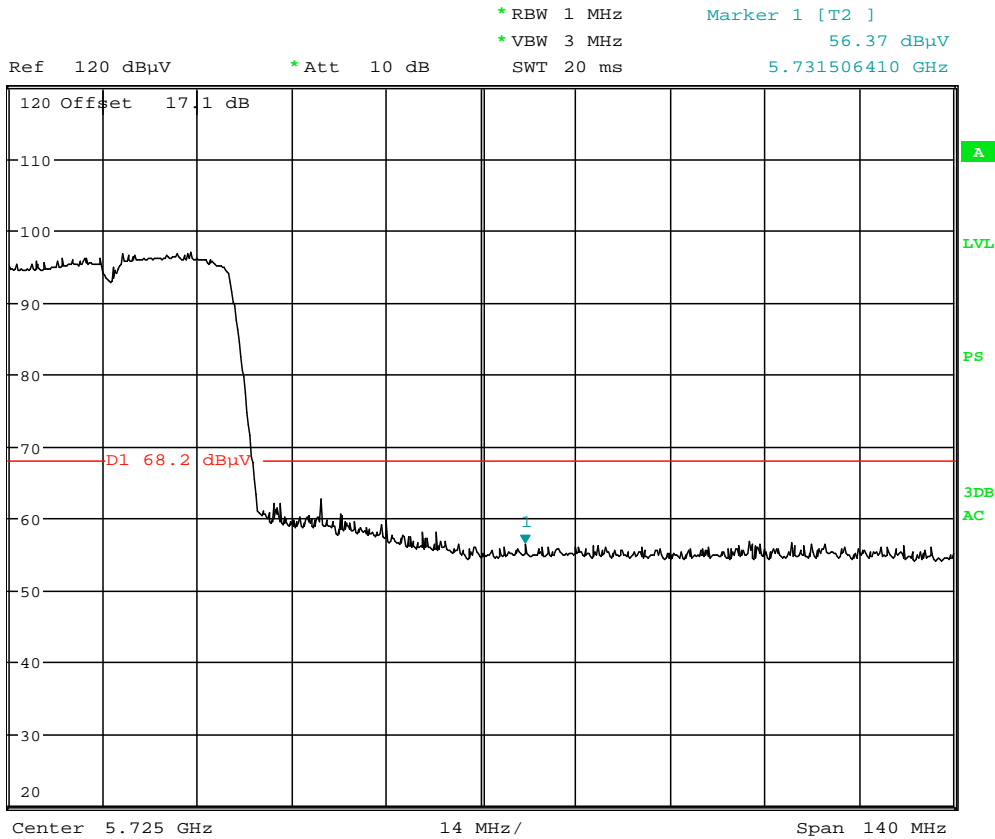
Plot 6-137. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 122 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

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

Worst Case Mode: 802.11ac (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5670MHz
 Channel: 134



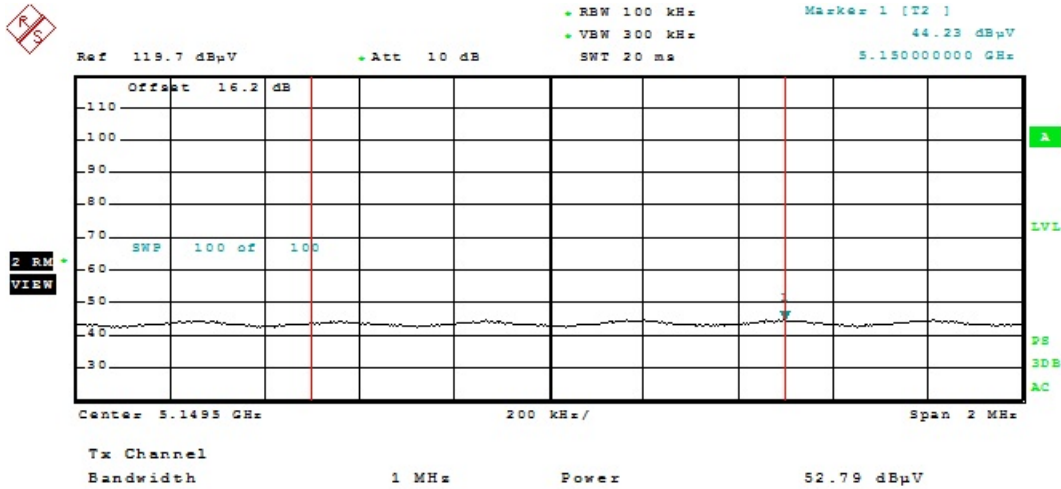
Date: 2.JAN.2014 10:51:59

Plot 6-138. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 123 of 176

Radiated Band Edge Measurements (80MHz BW)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5210MHz
 Channel: 42



Date: 2.JAN.2014 09:40:12

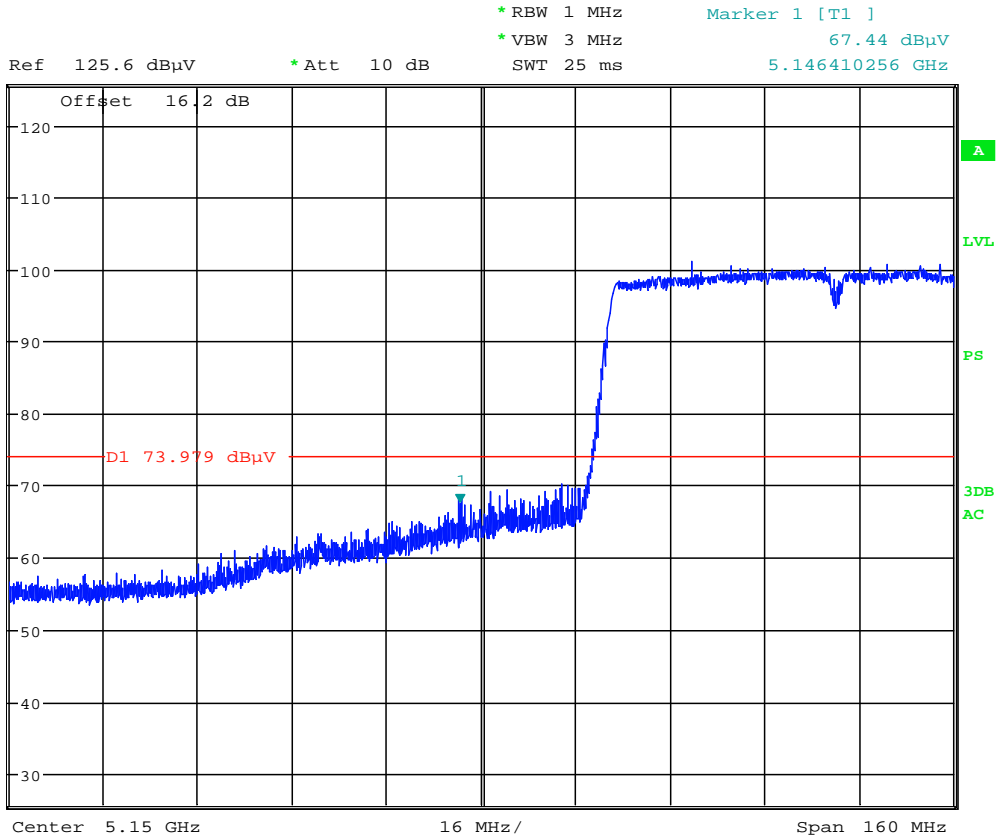
Plot 6-139. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

Note:

A channel integration method was used to determine compliance with the out of band average radiated spurious emissions limit in the 4500 – 5150MHz band. Per KDB 789033 Section H, a measurement was performed using a RBW of 100kHz at the 5150MHz band edge. The results were integrated up to the 1MHz reference bandwidth to show compliance with the 15.209 radiated limit for emissions greater than 1GHz.

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 124 of 176

Radiated Band Edge Measurements (80MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



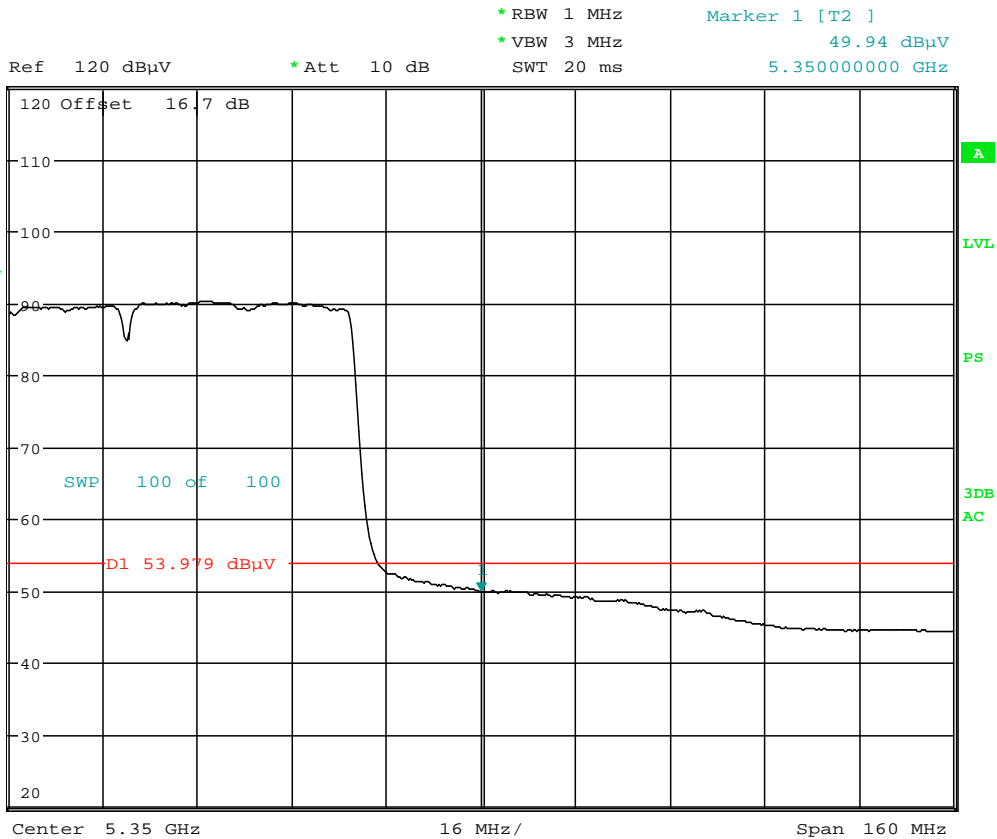
Date: 2.JAN.2014 09:37:48

Plot 6-140. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 125 of 176

Radiated Band Edge Measurements (80MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5290MHz
 Channel: 58

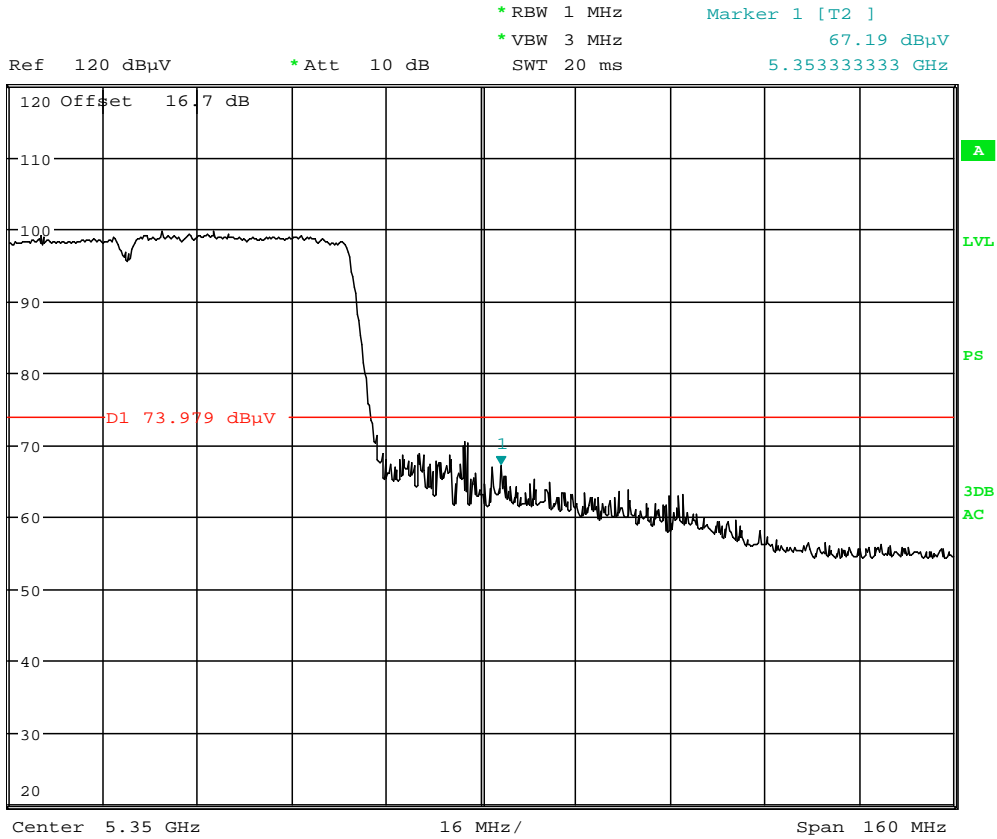


Date: 2.JAN.2014 10:16:37

Plot 6-141. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 126 of 176

Radiated Band Edge Measurements (80MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 2.JAN.2014 10:15:16

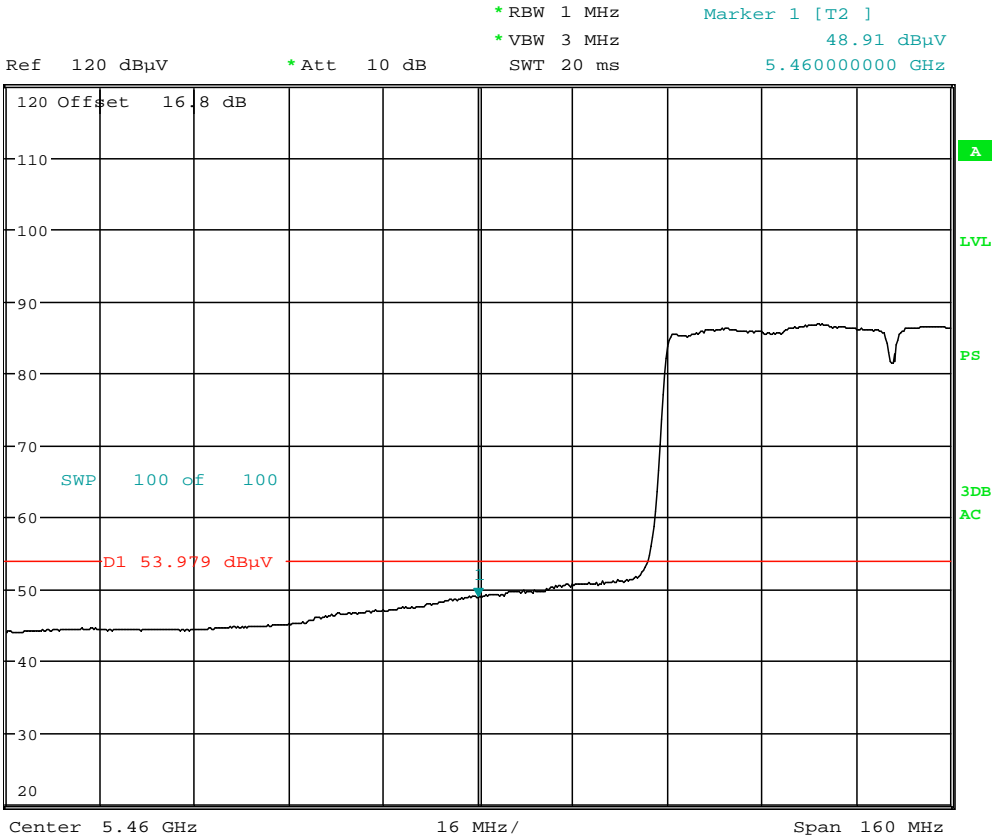
Plot 6-142. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 127 of 176

Radiated Band Edge Measurements (80MHz BW) (Cont'd)

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

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

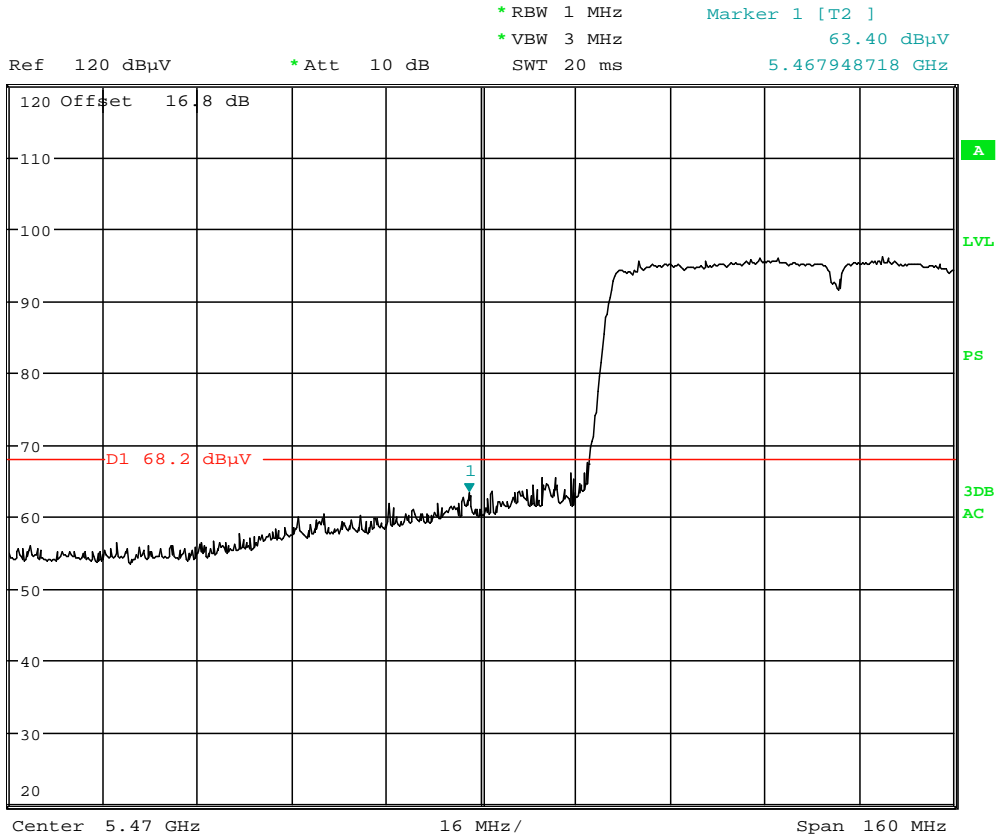


Date: 2.JAN.2014 10:40:48

Plot 6-143. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 128 of 176	

Radiated Band Edge Measurements (80MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



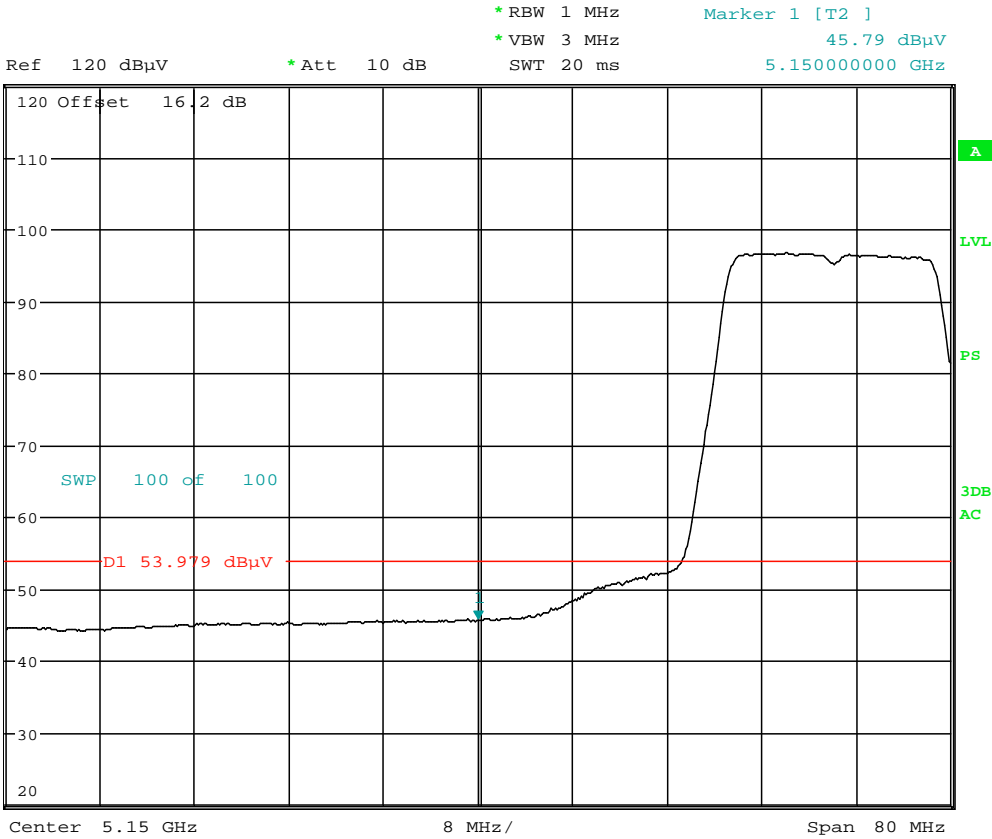
Date: 2.JAN.2014 10:39:33

Plot 6-144. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 129 of 176

6.9 Antenna-2 Radiated Band Edge Measurements (20MHz BW) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

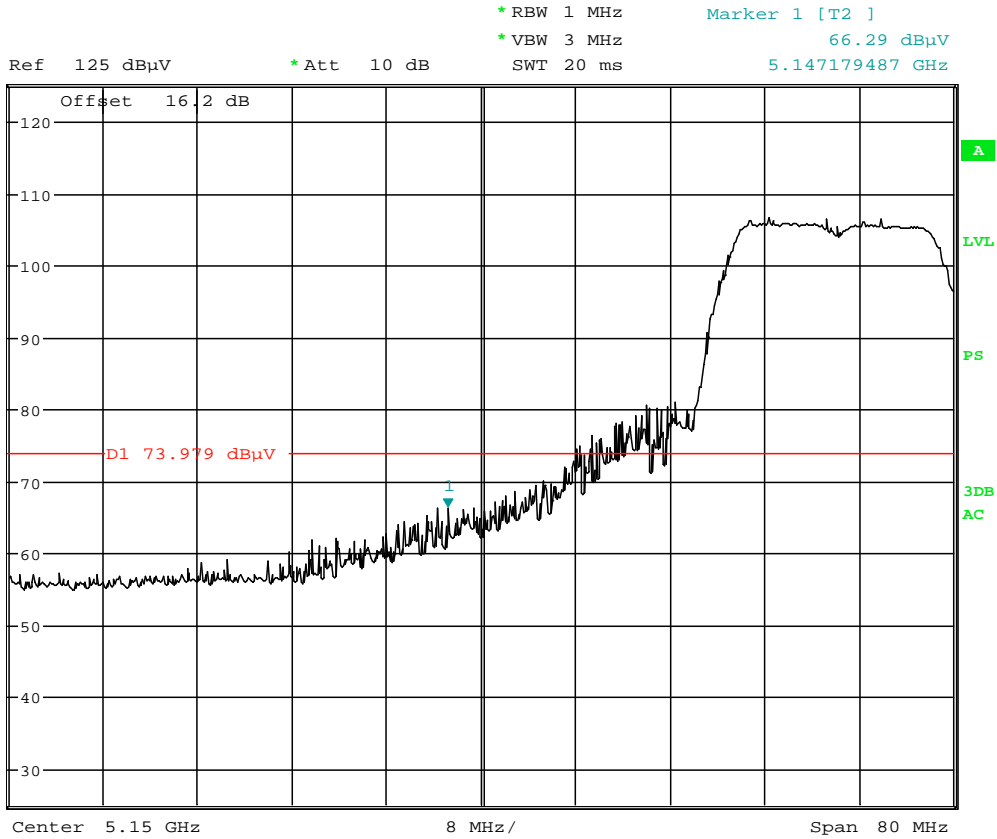


Date: 2.JAN.2014 11:13:35

Plot 6-145. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 130 of 176	

Radiated Band Edge Measurements (20MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



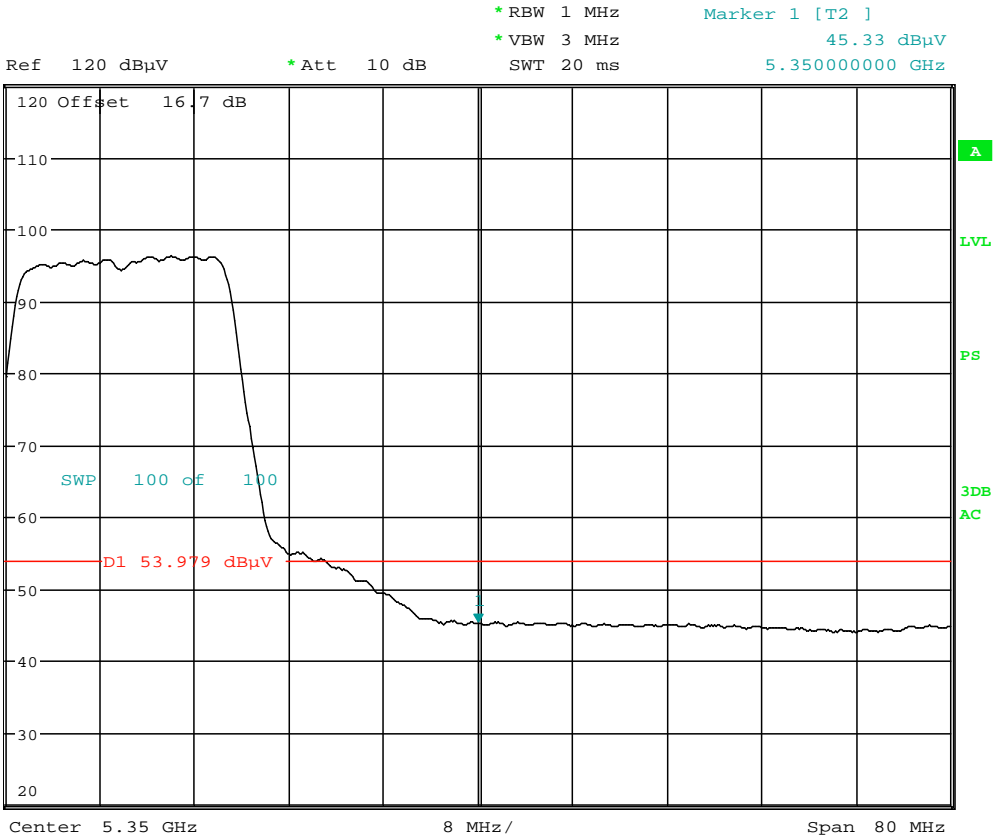
Date: 2.JAN.2014 11:09:08

Plot 6-146. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 131 of 176

Radiated Band Edge Measurements (20MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

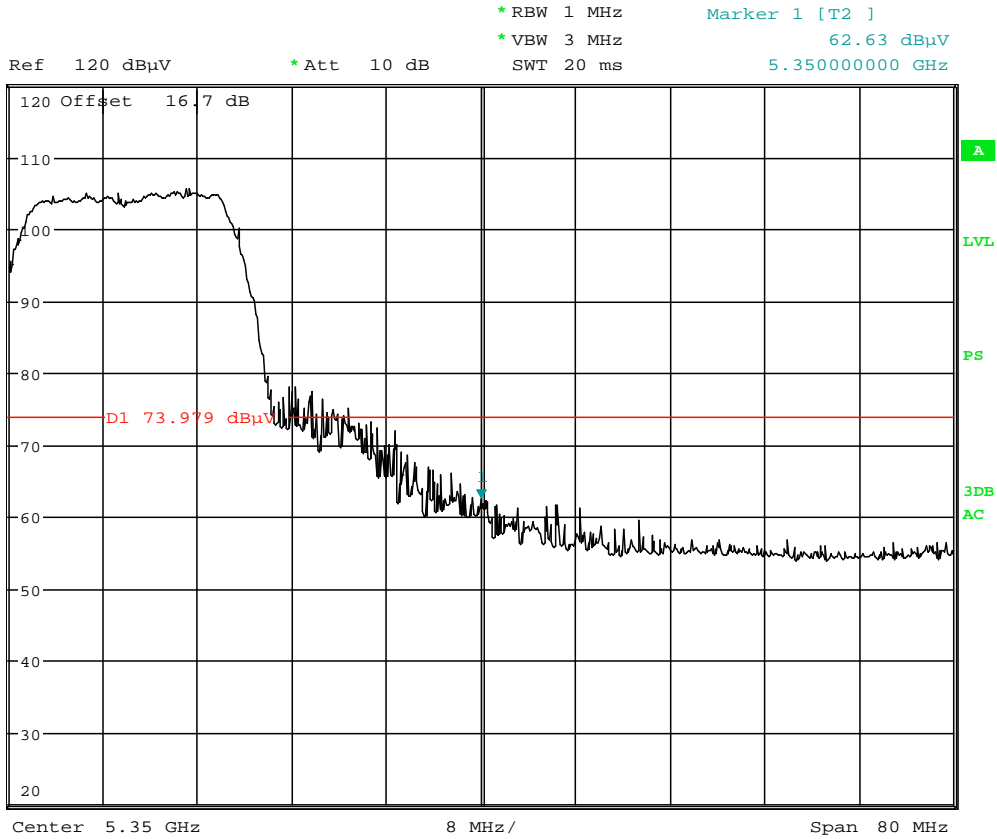


Date: 2.JAN.2014 11:31:27

Plot 6-147. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 132 of 176	

Radiated Band Edge Measurements (20MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 2.JAN.2014 11:30:21

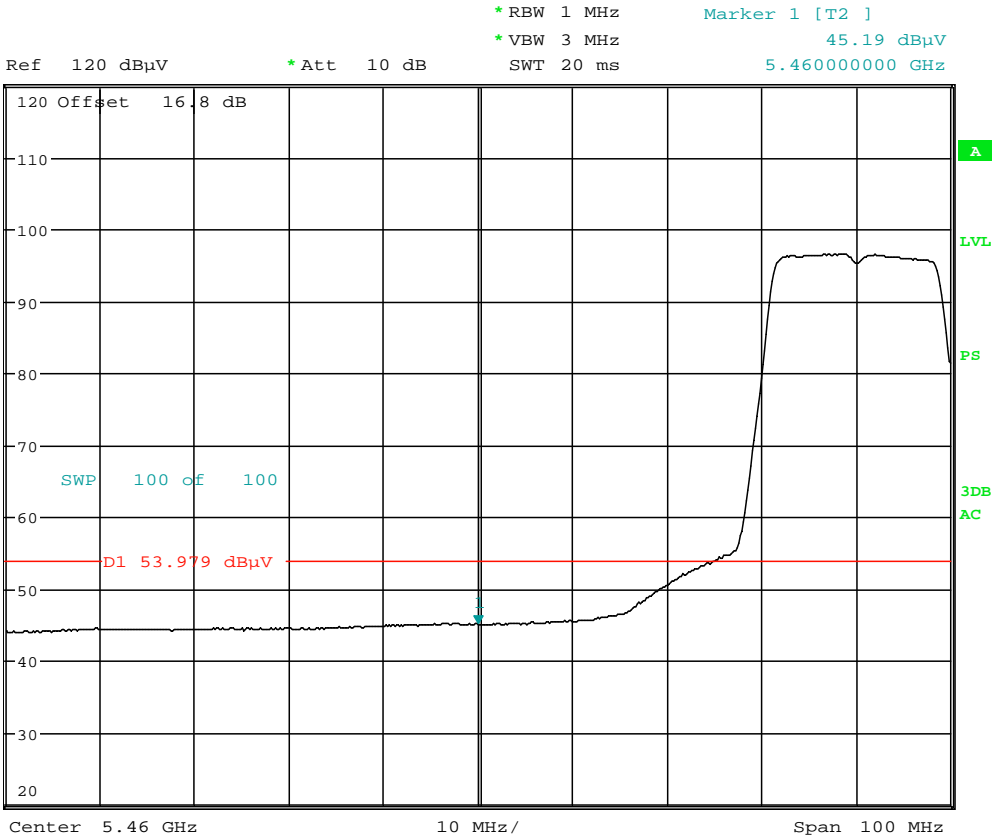
Plot 6-148. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 133 of 176

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

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

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

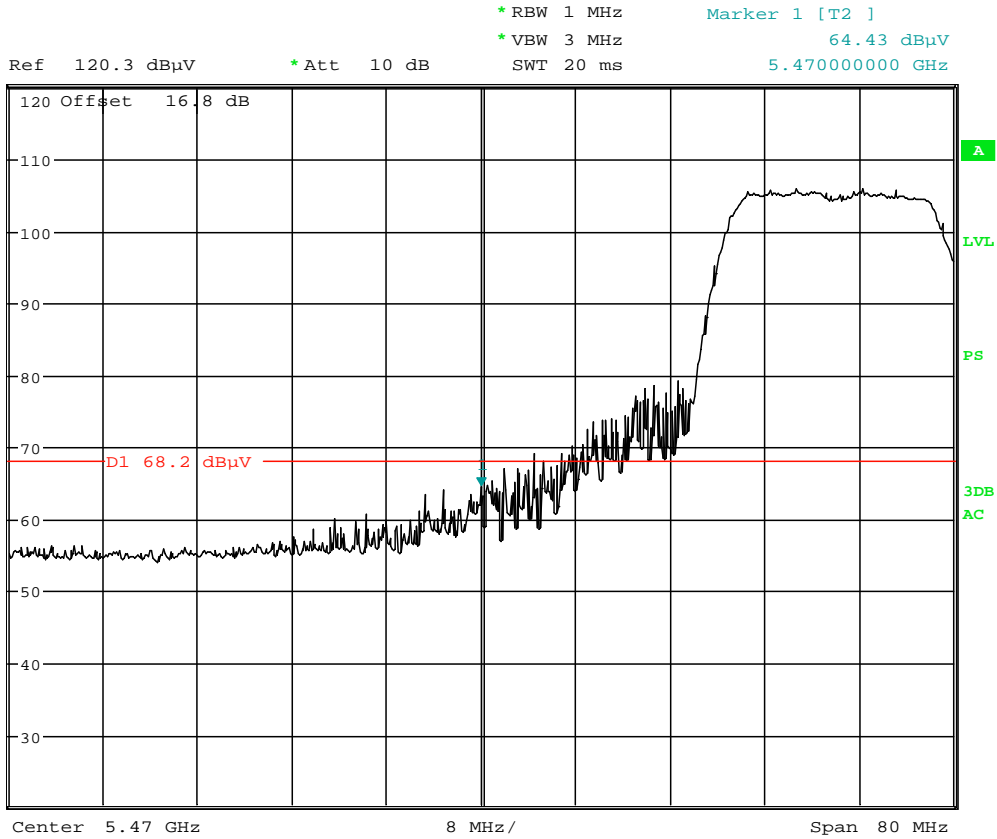


Date: 2.JAN.2014 11:44:35

Plot 6-149. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 134 of 176	

Radiated Band Edge Measurements (20MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



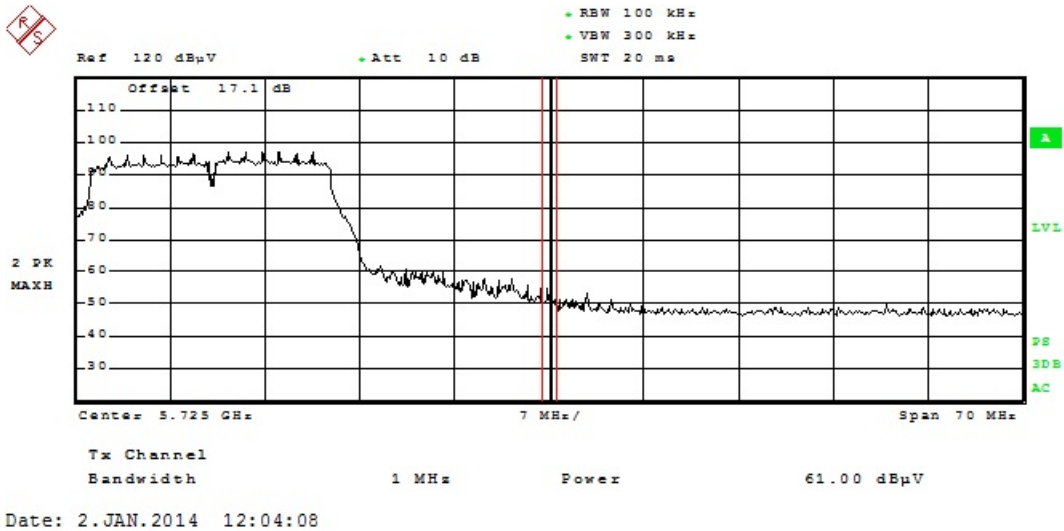
Date: 2.JAN.2014 11:43:18

Plot 6-150. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 135 of 176

Radiated Band Edge Measurements (20MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5700MHz
 Channel: 140



Plot 6-151. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)

Note:

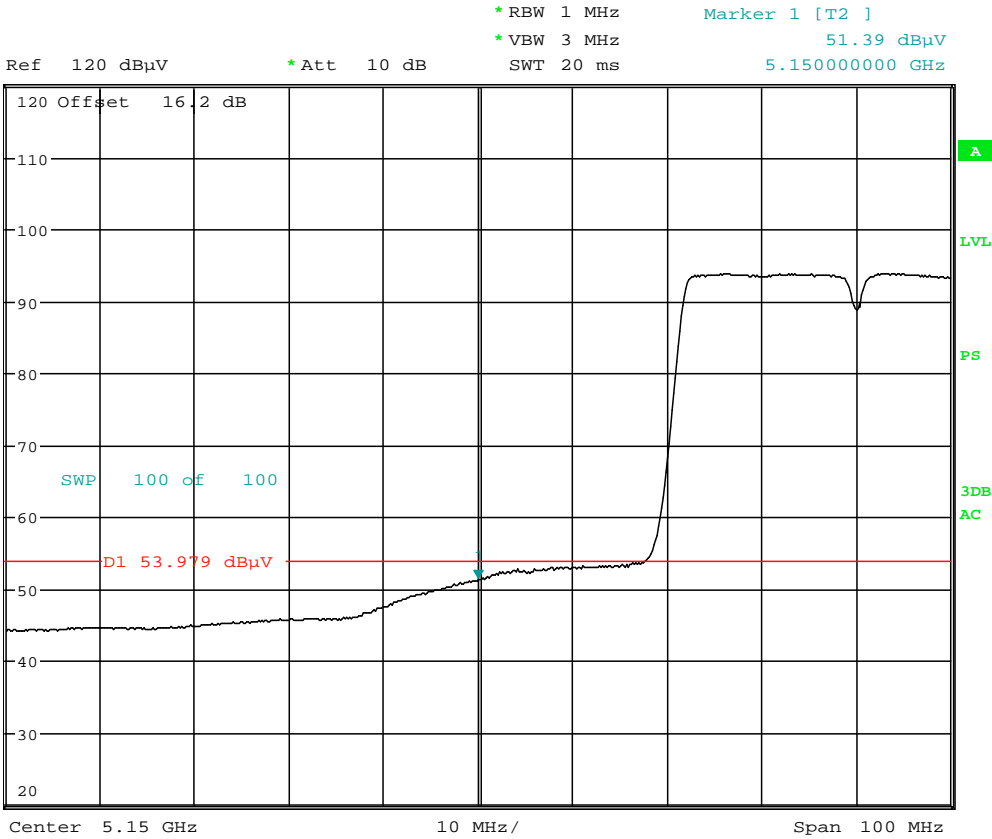
A channel integration method was used to determine compliance with the out of band peak radiated spurious emissions limit in the 4500 – 5150MHz band. Per KDB 789033 Section H, a measurement was performed using a RBW of 100kHz at the 5150MHz band edge. The results were integrated up to the 1MHz reference bandwidth to show compliance with the 15.209 radiated limit for emissions greater than 1GHz.

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 136 of 176

Radiated Band Edge Measurements (40MHz BW)

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

Worst Case Mode: 802.11ac (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5190MHz
 Channel: 38

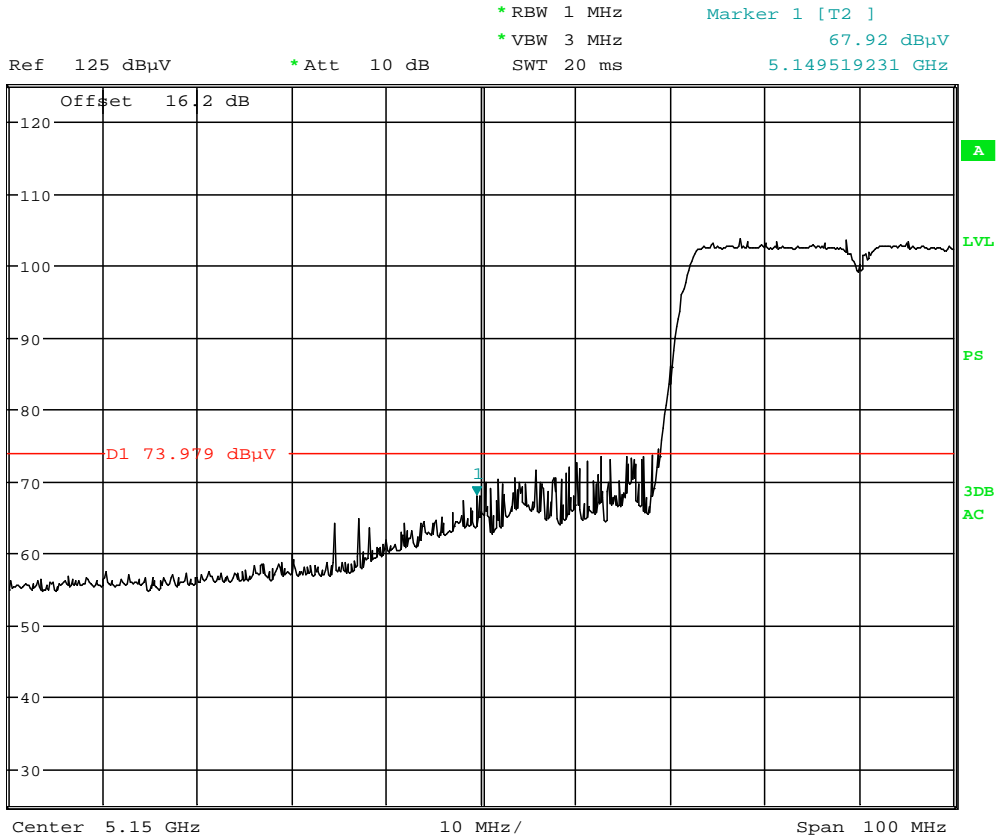


Date: 2.JAN.2014 11:20:24

Plot 6-152. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 137 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 2.JAN.2014 11:19:19

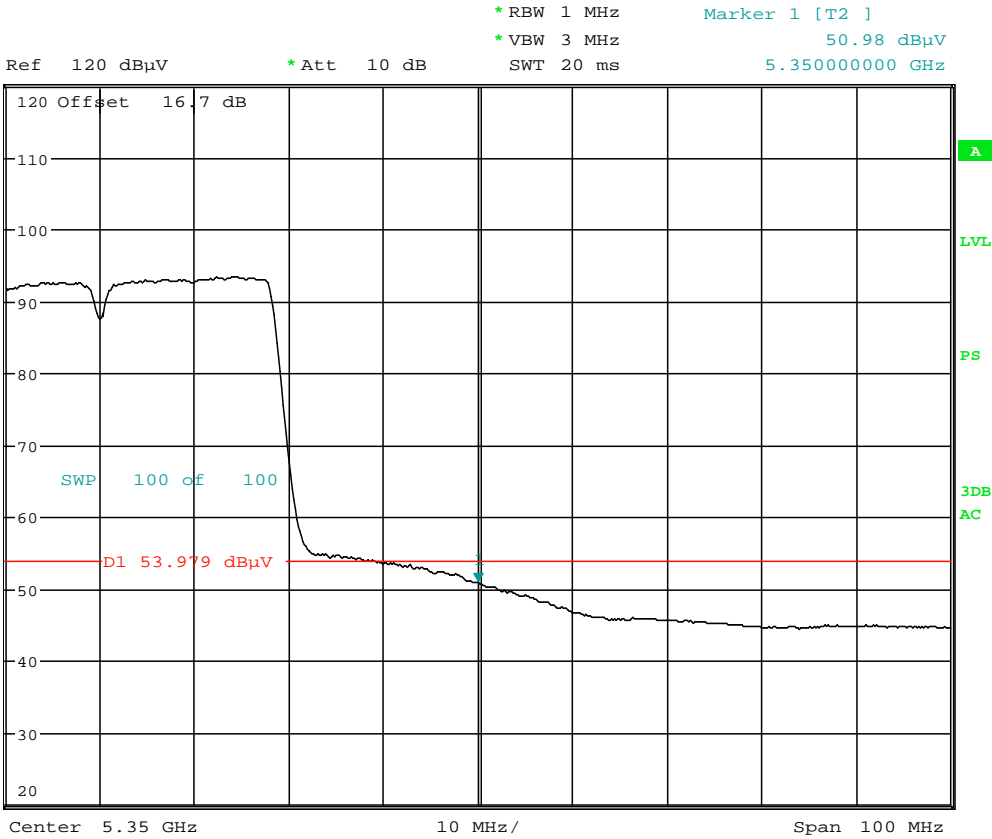
Plot 6-153. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 138 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

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

Worst Case Mode: 802.11ac (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5310MHz
 Channel: 62

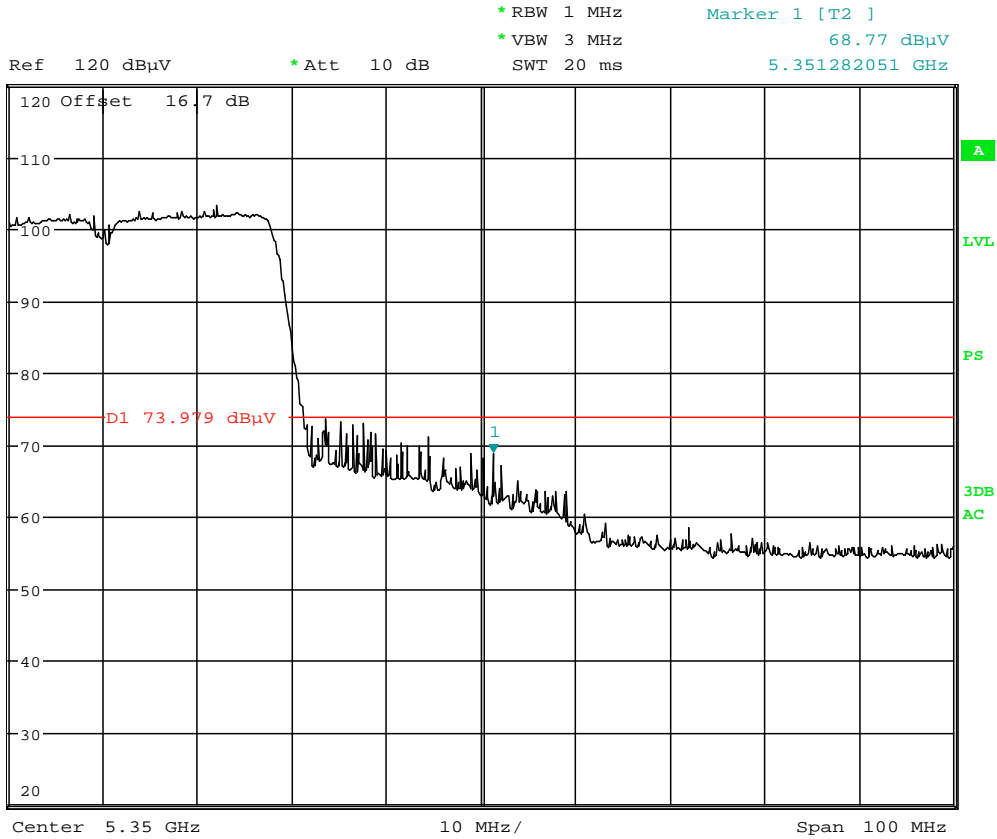


Date: 2.JAN.2014 11:33:23

Plot 6-154. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 139 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



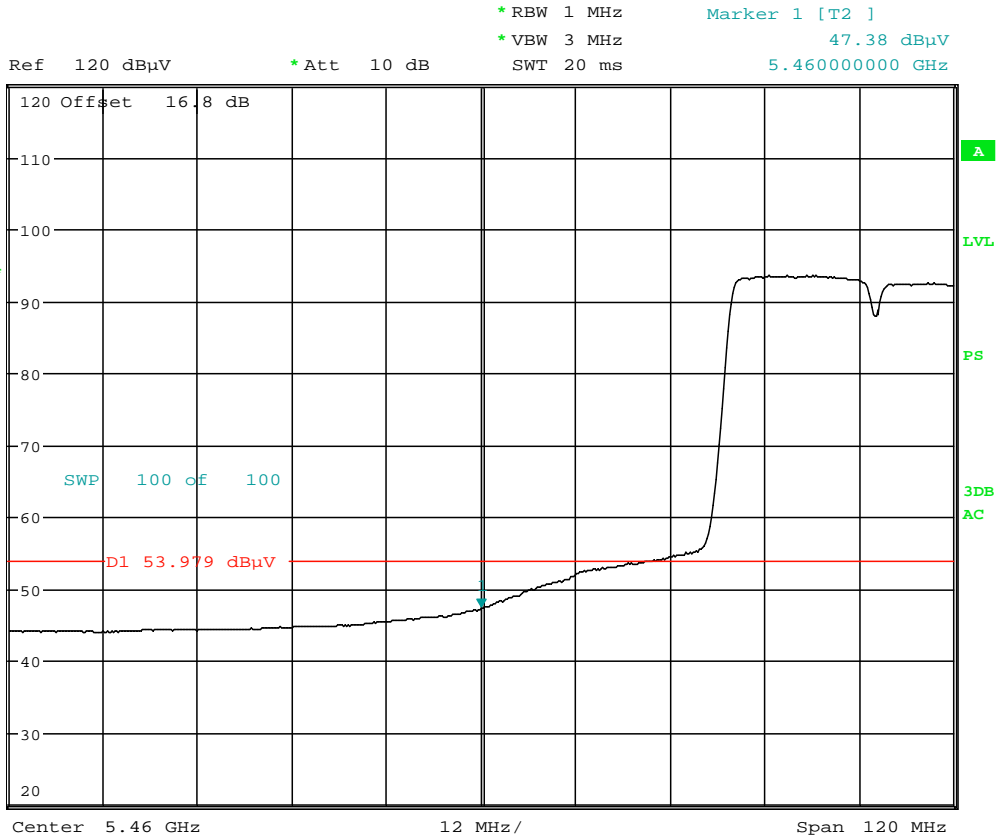
Date: 2.JAN.2014 11:34:46

Plot 6-155. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 140 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11ac (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

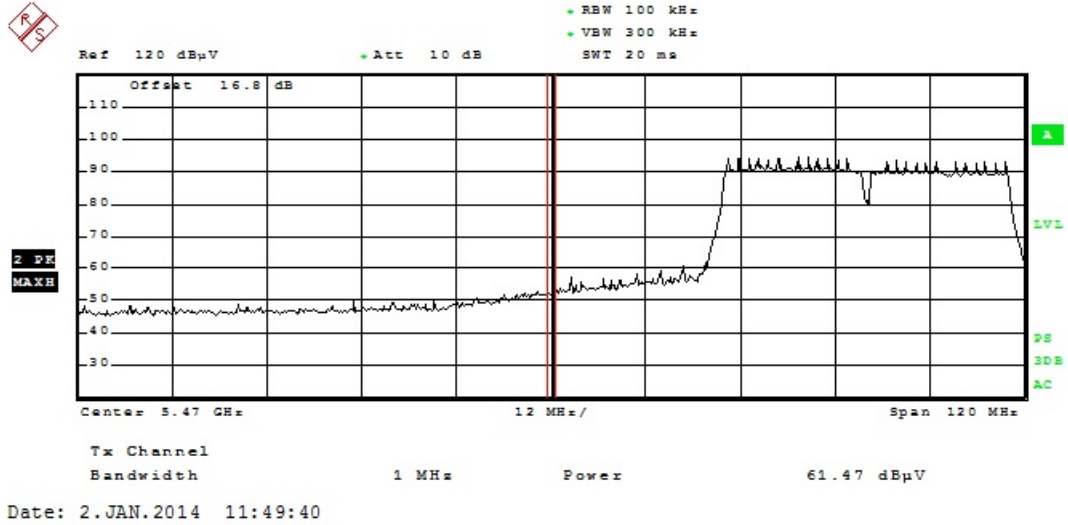


Date: 2.JAN.2014 11:46:25

Plot 6-156. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 141 of 176	

Radiated Band Edge Measurements (40MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Plot 6-157. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

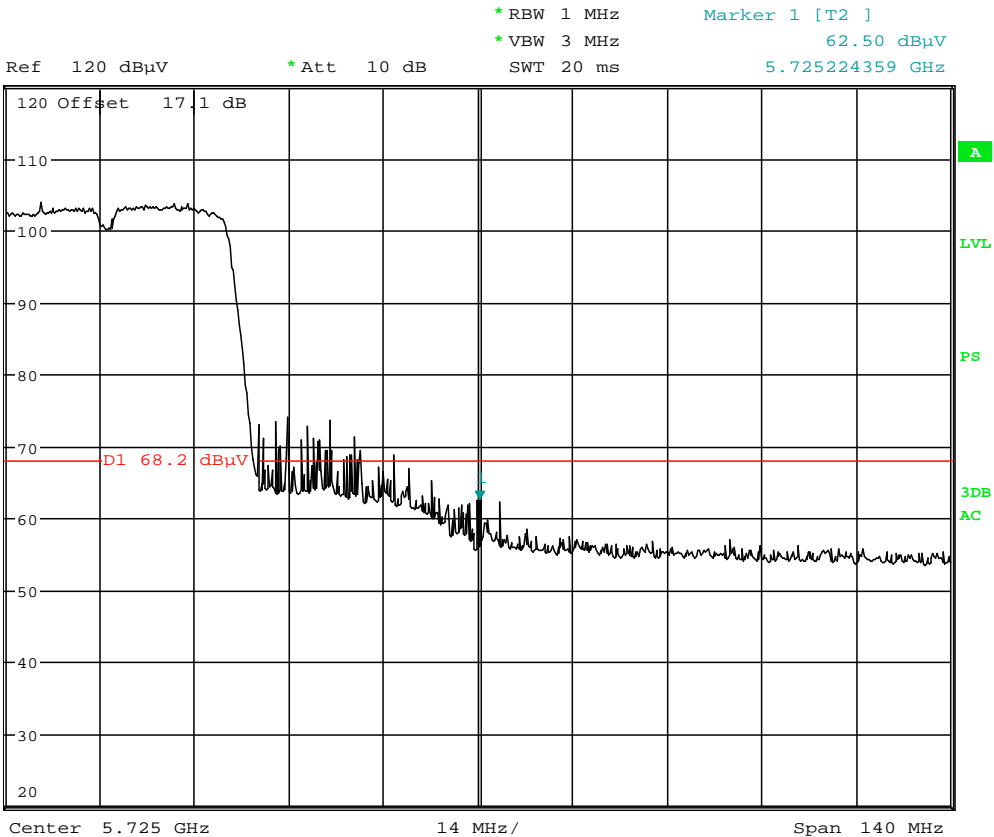
Note:

A channel integration method was used to determine compliance with the out of band peak radiated spurious emissions limit in the 4500 – 5150MHz band. Per KDB 789033 Section H, a measurement was performed using a RBW of 100kHz at the 5150MHz band edge. The results were integrated up to the 1MHz reference bandwidth to show compliance with the 15.209 radiated limit for emissions greater than 1GHz.

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 142 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11ac (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5670MHz
 Channel: 134



Date: 2.JAN.2014 12:07:52

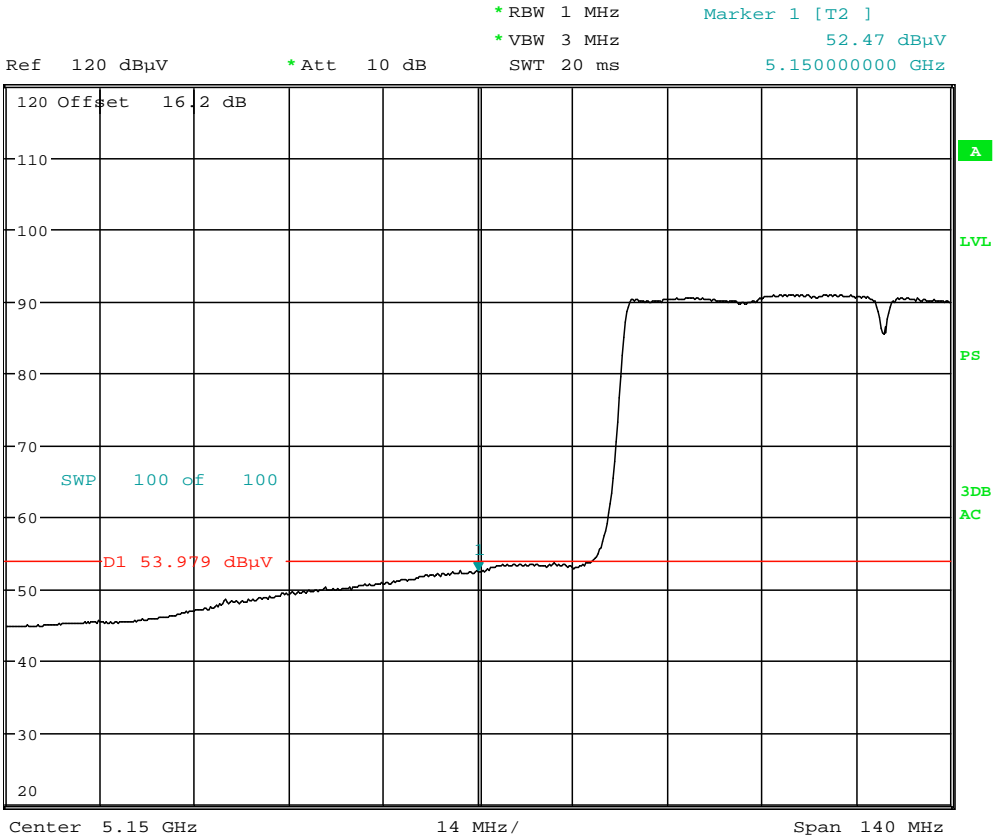
Plot 6-158. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 143 of 176

Radiated Band Edge Measurements (80MHz BW)

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

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5210MHz
 Channel: 42

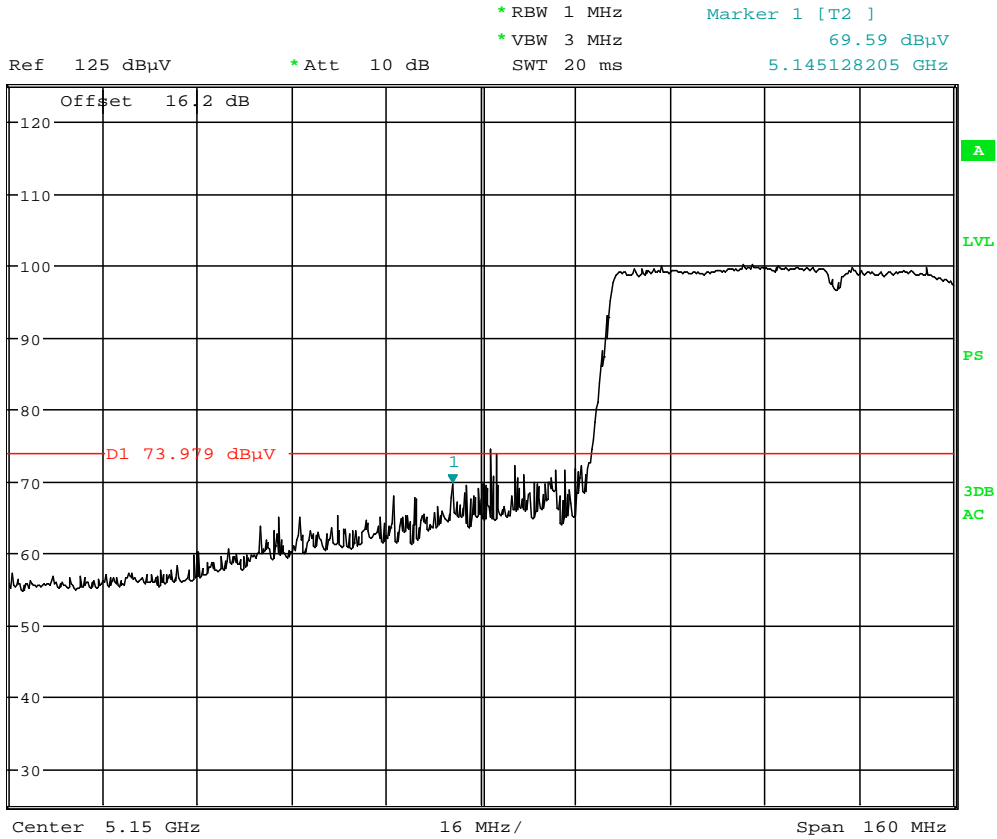


Date: 2.JAN.2014 11:22:33

Plot 6-159. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 144 of 176	

Radiated Band Edge Measurements (80MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 2.JAN.2014 11:24:15

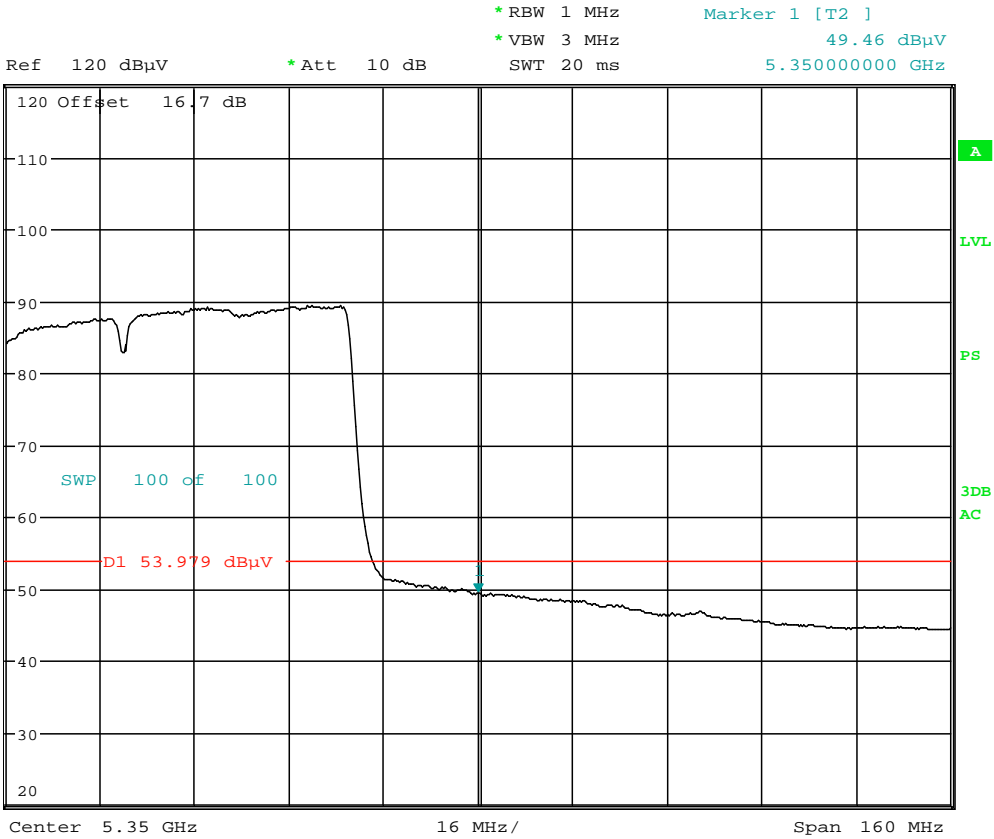
Plot 6-160. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 145 of 176

Radiated Band Edge Measurements (80MHz BW) (Cont'd)

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

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5290MHz
 Channel: 58

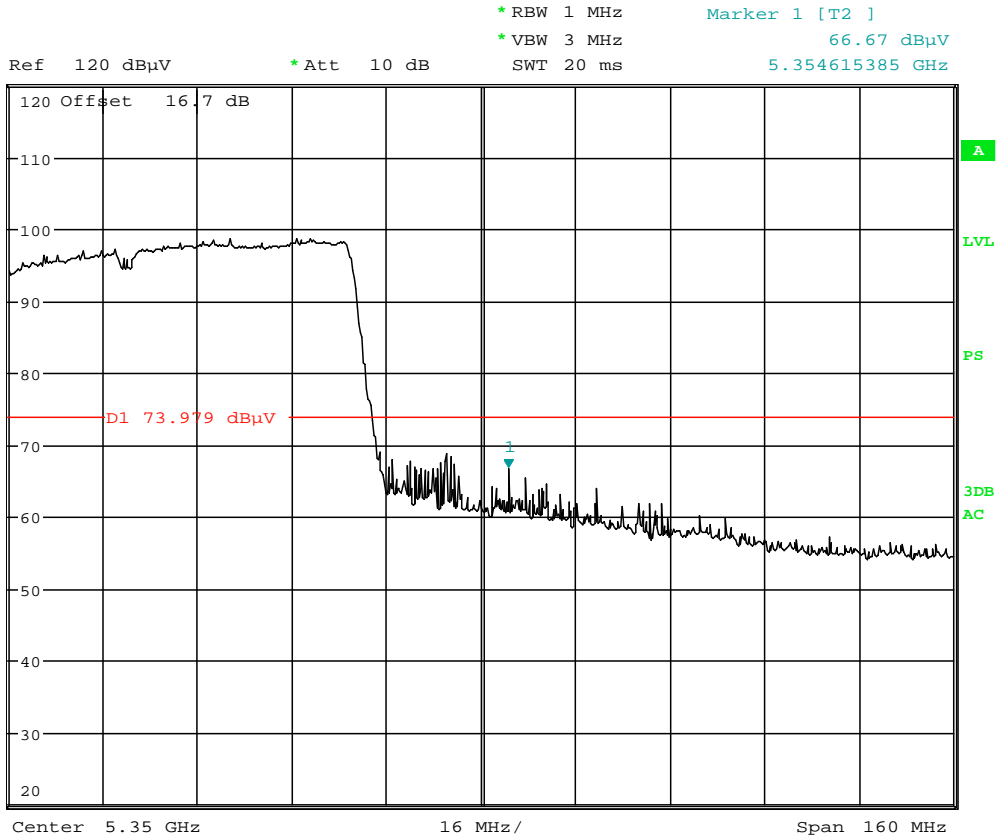


Date: 2.JAN.2014 11:38:43

Plot 6-161. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 146 of 176

Radiated Band Edge Measurements (80MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 2.JAN.2014 11:37:32

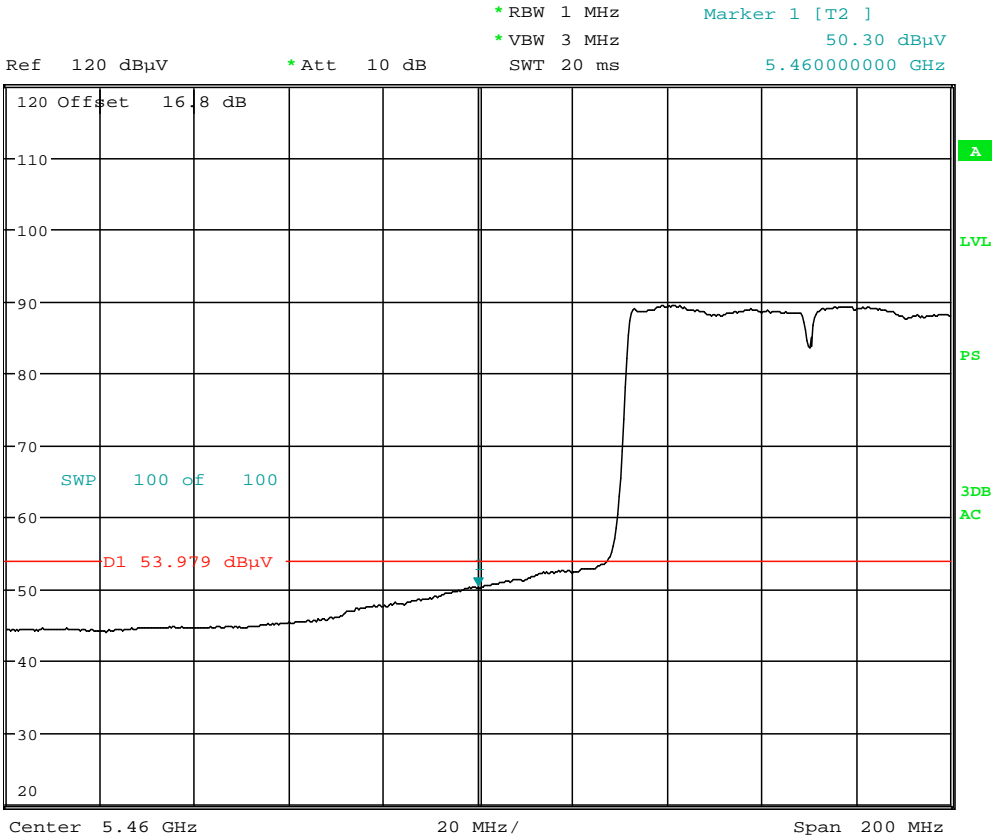
Plot 6-162. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 147 of 176

Radiated Band Edge Measurements (80MHz BW) (Cont'd)

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

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

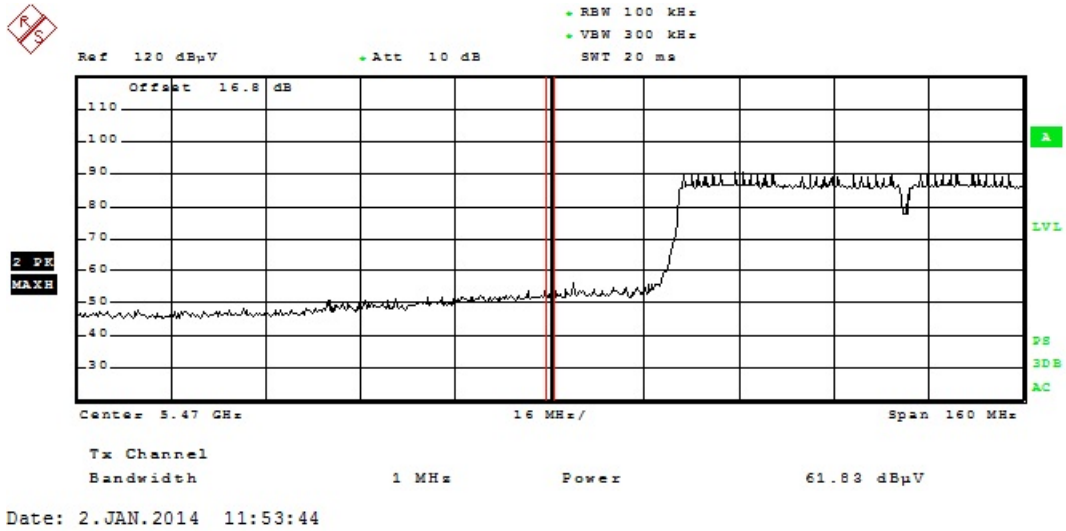


Date: 2.JAN.2014 11:54:53

Plot 6-163. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 148 of 176



Radiated Band Edge Measurements (80MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Plot 6-164. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

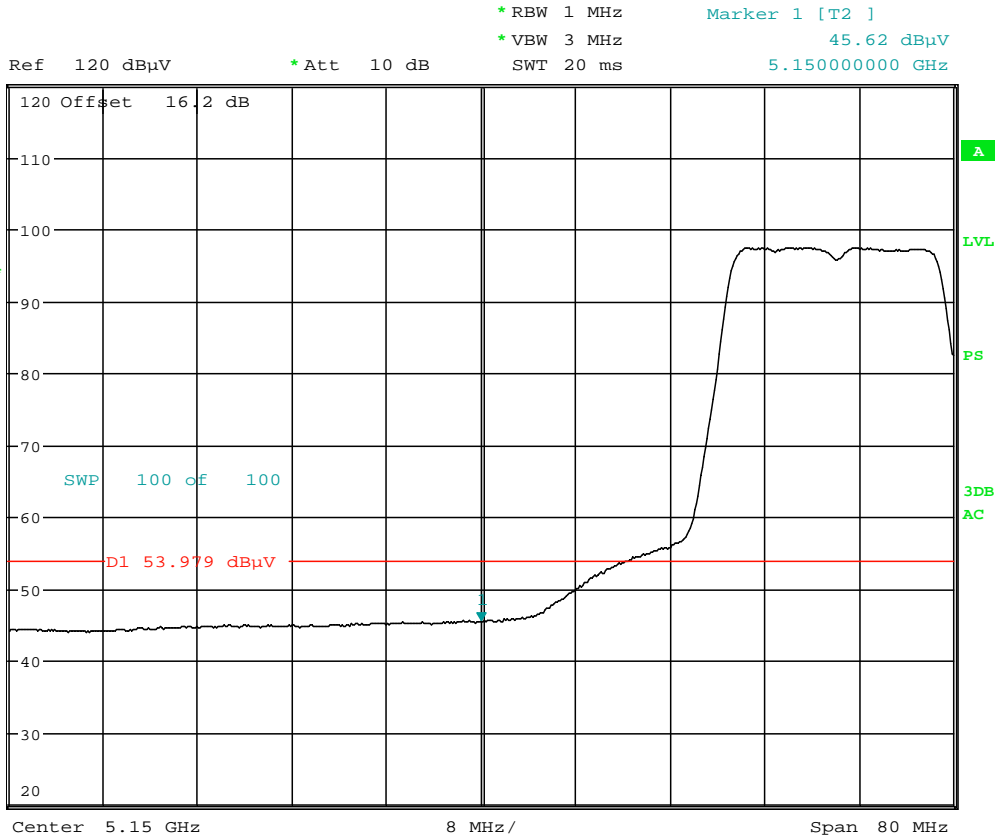
Note:

A channel integration method was used to determine compliance with the out of band peak radiated spurious emissions limit in the 4500 – 5150MHz band. Per KDB 789033 Section H, a measurement was performed using a RBW of 100kHz at the 5150MHz band edge. The results were integrated up to the 1MHz reference bandwidth to show compliance with the 15.209 radiated limit for emissions greater than 1GHz.

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 149 of 176

6.10 MIMO Radiated Band Edge Measurements (20MHz BW) §15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS08
 Distance of Measurements: 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

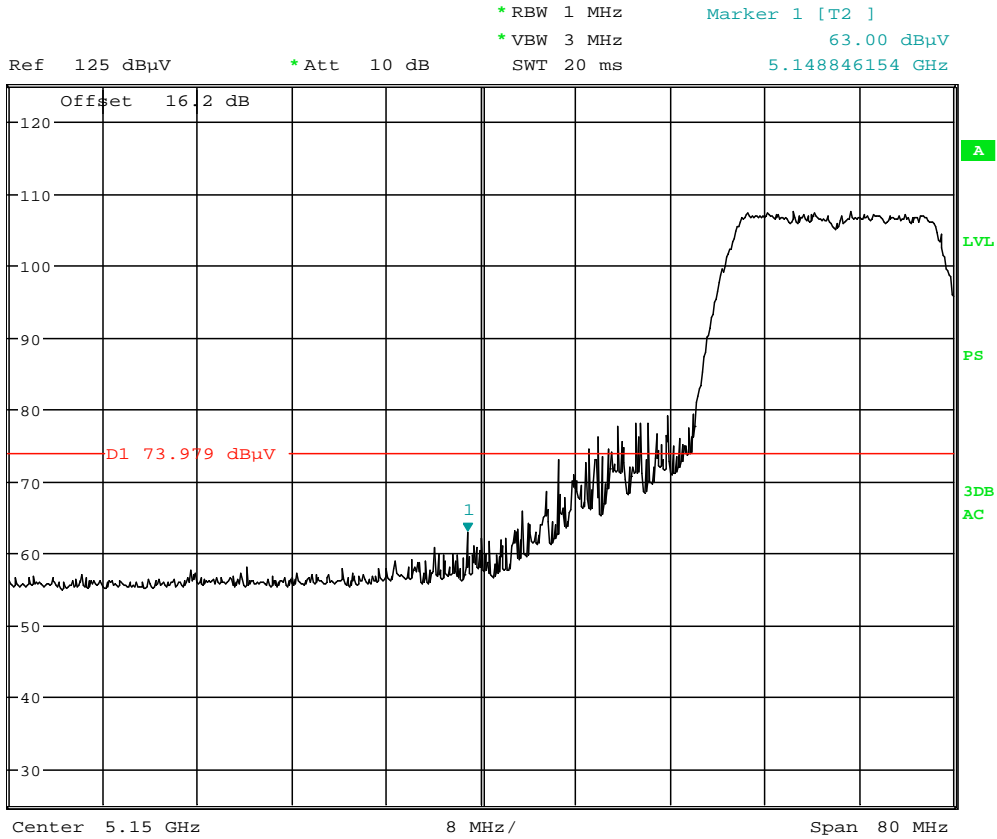


Date: 2.JAN.2014 12:15:54

Plot 6-165. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 150 of 176	

Radiated Band Edge Measurements (20MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 2.JAN.2014 12:14:54

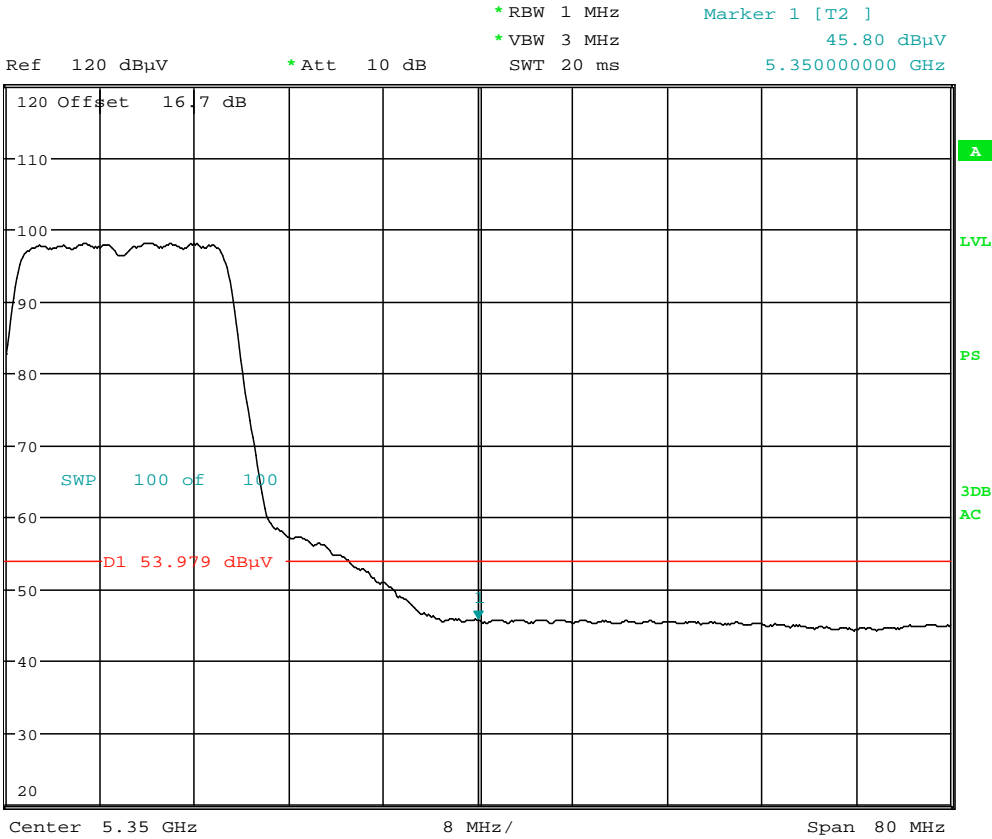
Plot 6-166. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 151 of 176

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

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

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS08
 Distance of Measurements: 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

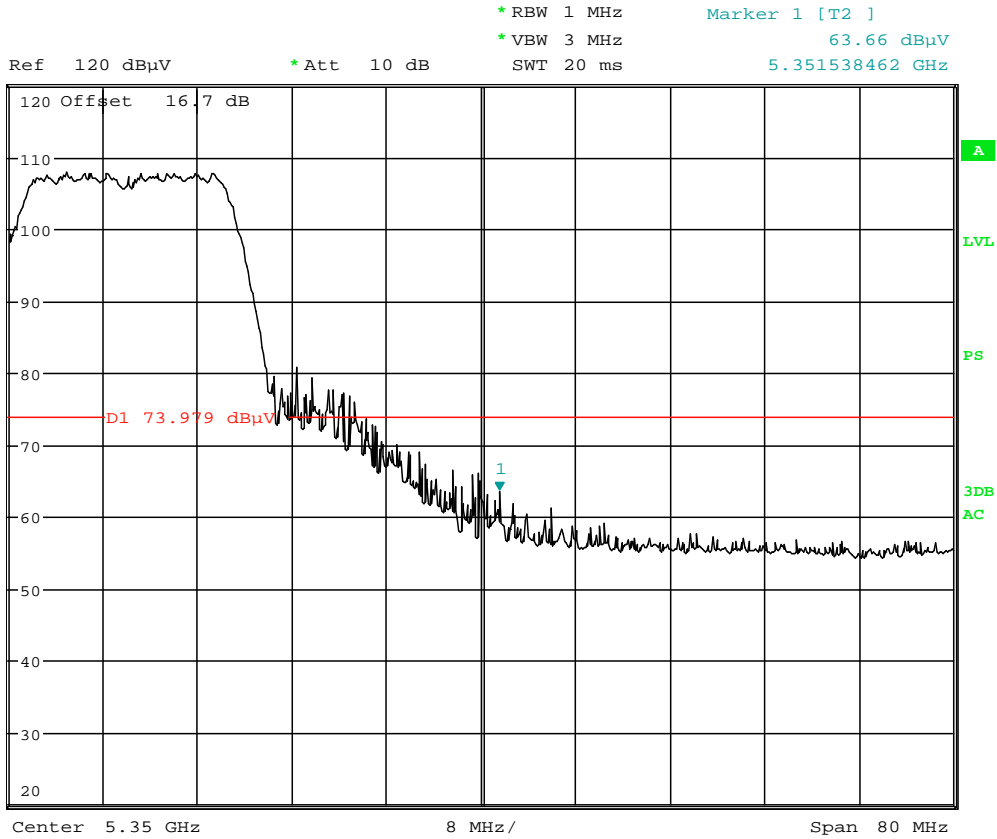


Date: 2.JAN.2014 12:29:22

Plot 6-167. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 152 of 176	

Radiated Band Edge Measurements (20MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 2.JAN.2014 12:28:22

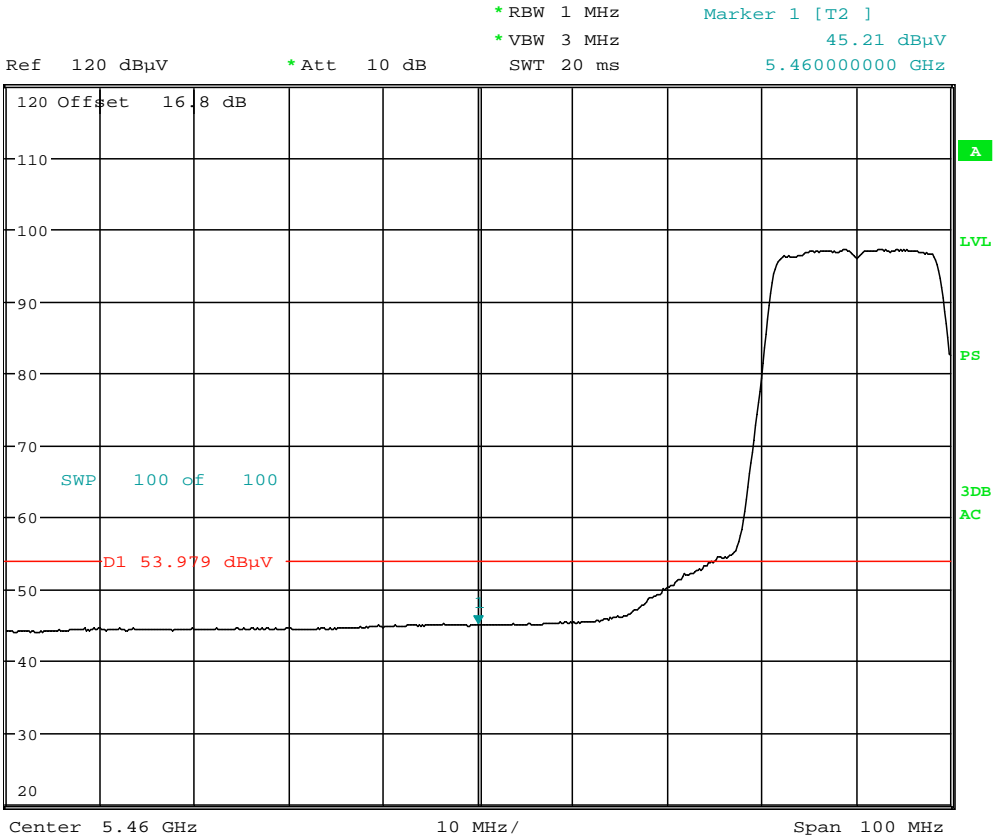
Plot 6-168. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 153 of 176

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

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

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS08
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100



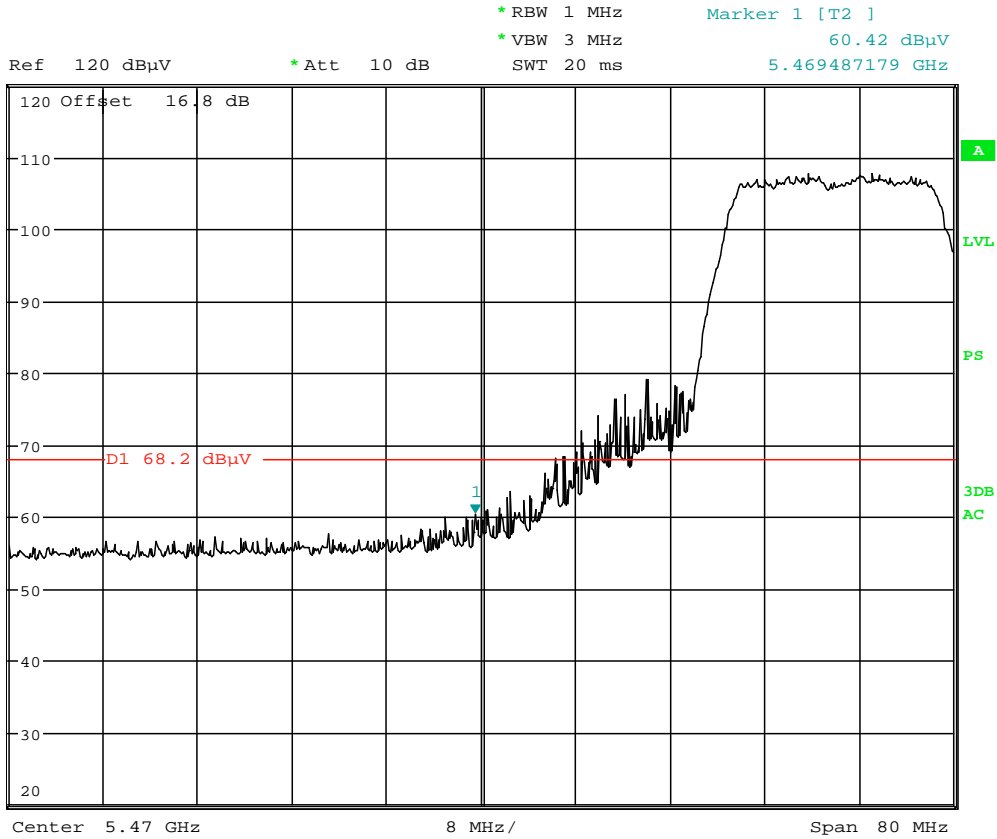
Date: 2.JAN.2014 12:41:53

Plot 6-169. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 154 of 176

Radiated Band Edge Measurements (20MHz BW) (Cont'd)

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



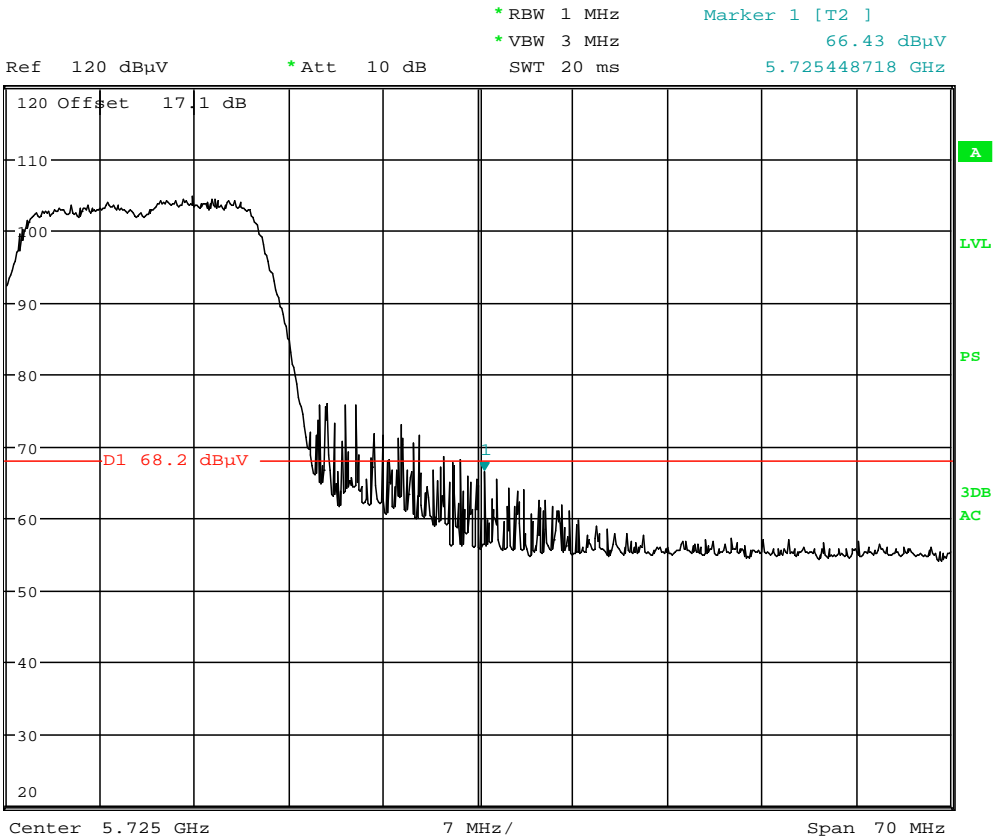
Date: 2.JAN.2014 12:40:58

Plot 6-170. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 155 of 176

Radiated Band Edge Measurements (20MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]

Worst Case Mode: 802.11n (20MHz)
 Worst Case Transfer Rate: MCS08
 Distance of Measurements: 3 Meters
 Operating Frequency: 5700MHz
 Channel: 140



Date: 2.JAN.2014 12:54:08

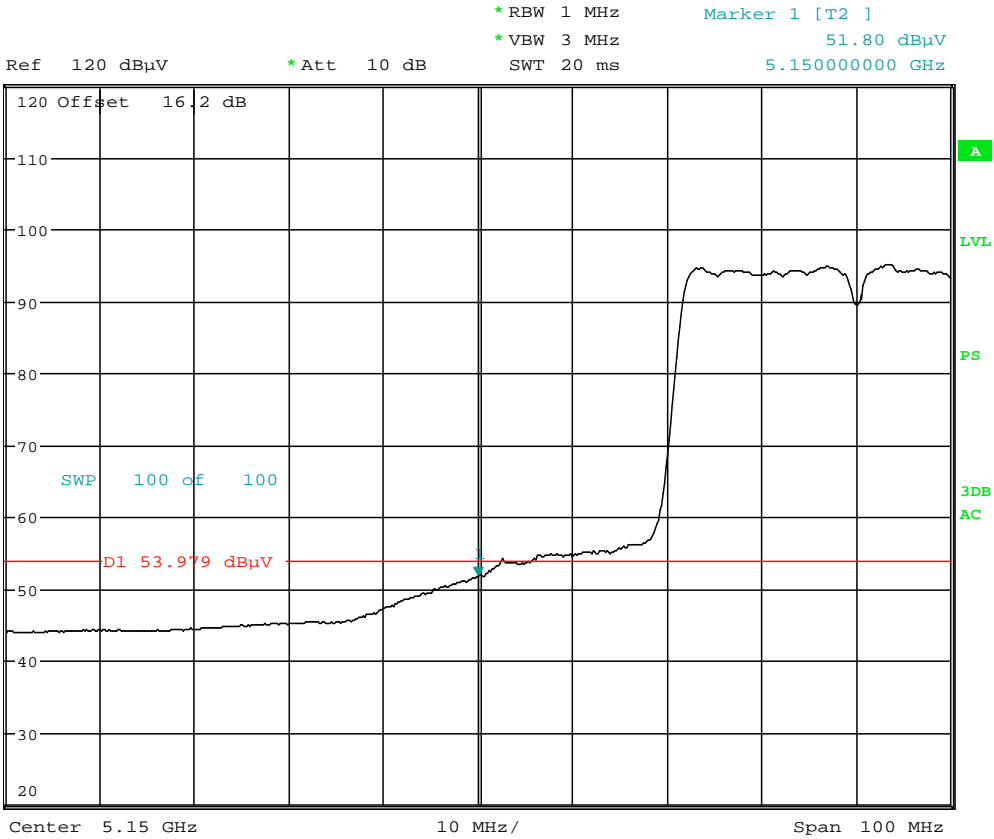
Plot 6-171. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 156 of 176

Radiated Band Edge Measurements (40MHz BW)

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

Worst Case Mode: 802.11ac (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5190MHz
 Channel: 38



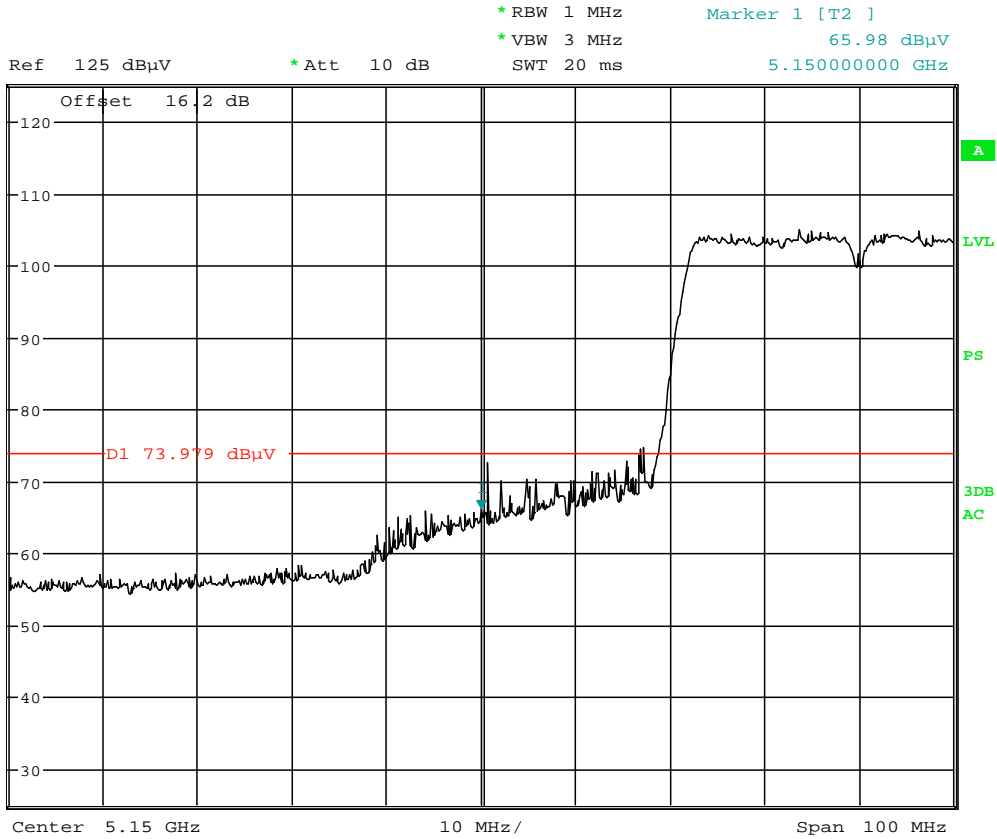
Date: 2.JAN.2014 12:17:50

Plot 6-172. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 157 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

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



Date: 2.JAN.2014 12:20:14

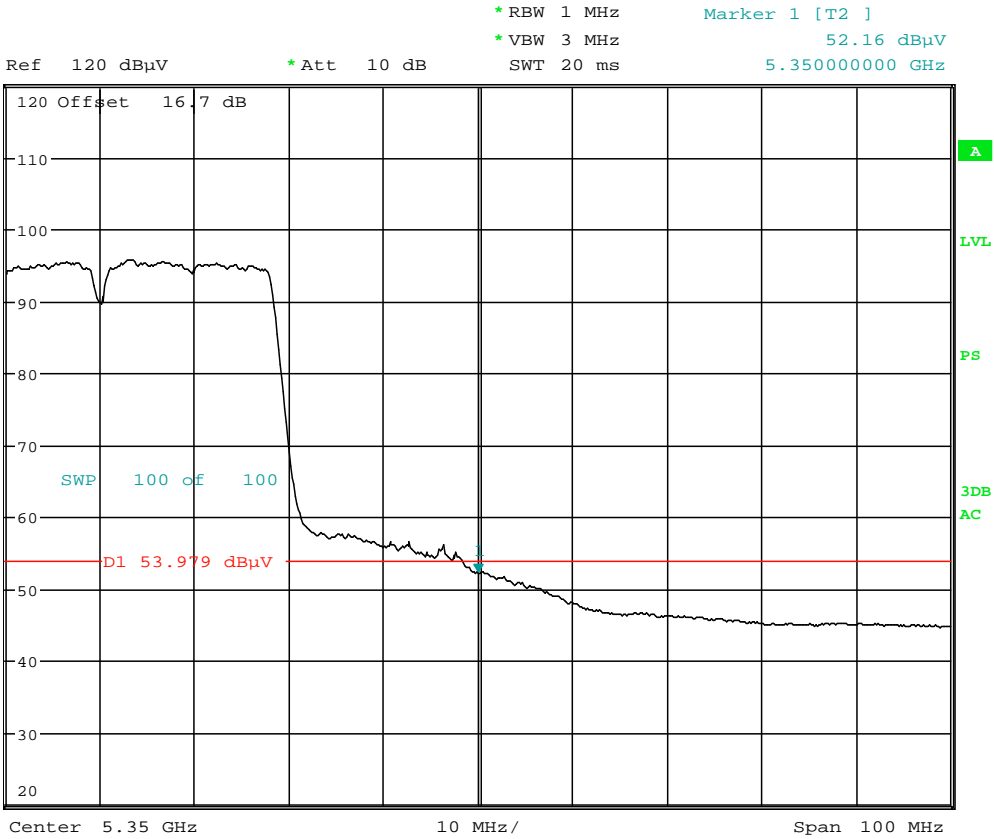
Plot 6-173. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 158 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

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

Worst Case Mode: 802.11ac (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5310MHz
 Channel: 62

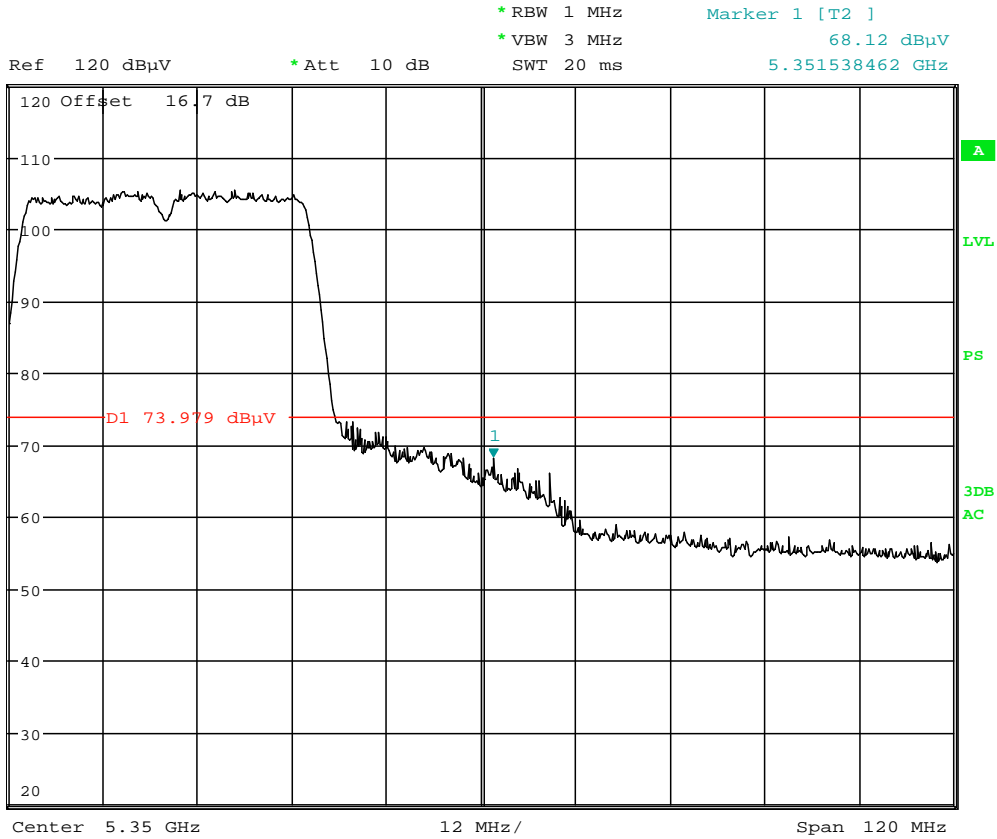


Date: 2.JAN.2014 12:31:21

Plot 6-174. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 159 of 176	

Radiated Band Edge Measurements (40MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 2.JAN.2014 12:32:41

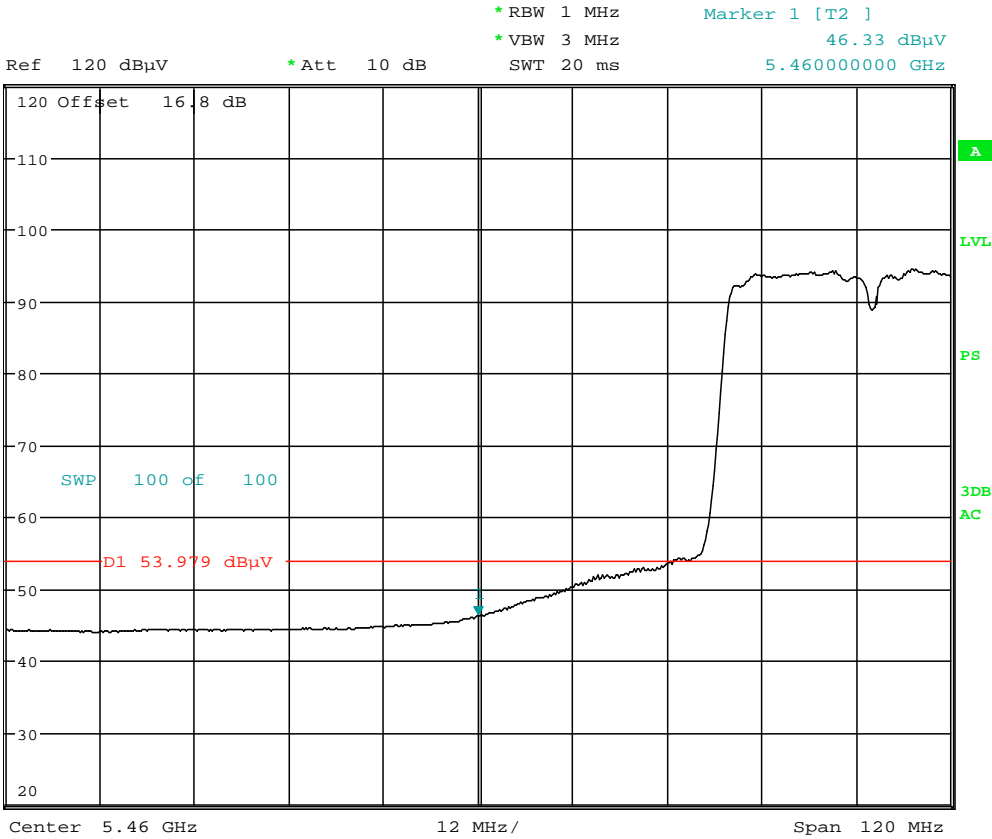
Plot 6-175. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 160 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

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

Worst Case Mode: 802.11ac (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102



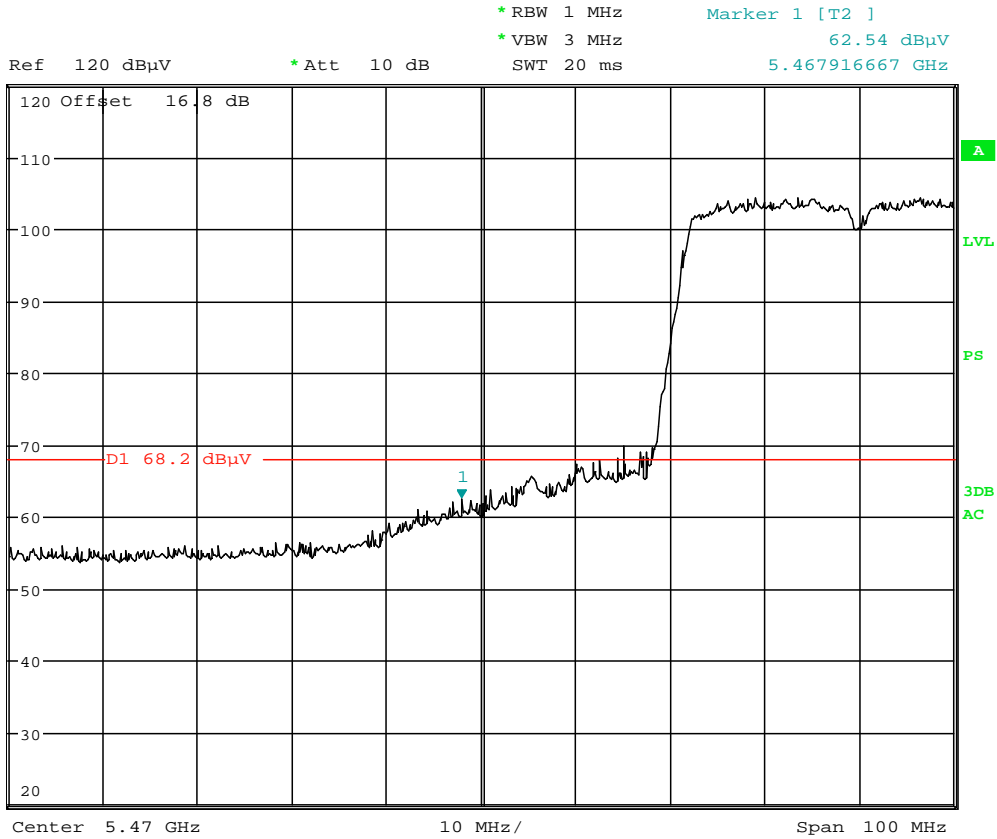
Date: 2.JAN.2014 12:43:56

Plot 6-176. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 161 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

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



Date: 2.JAN.2014 12:45:33

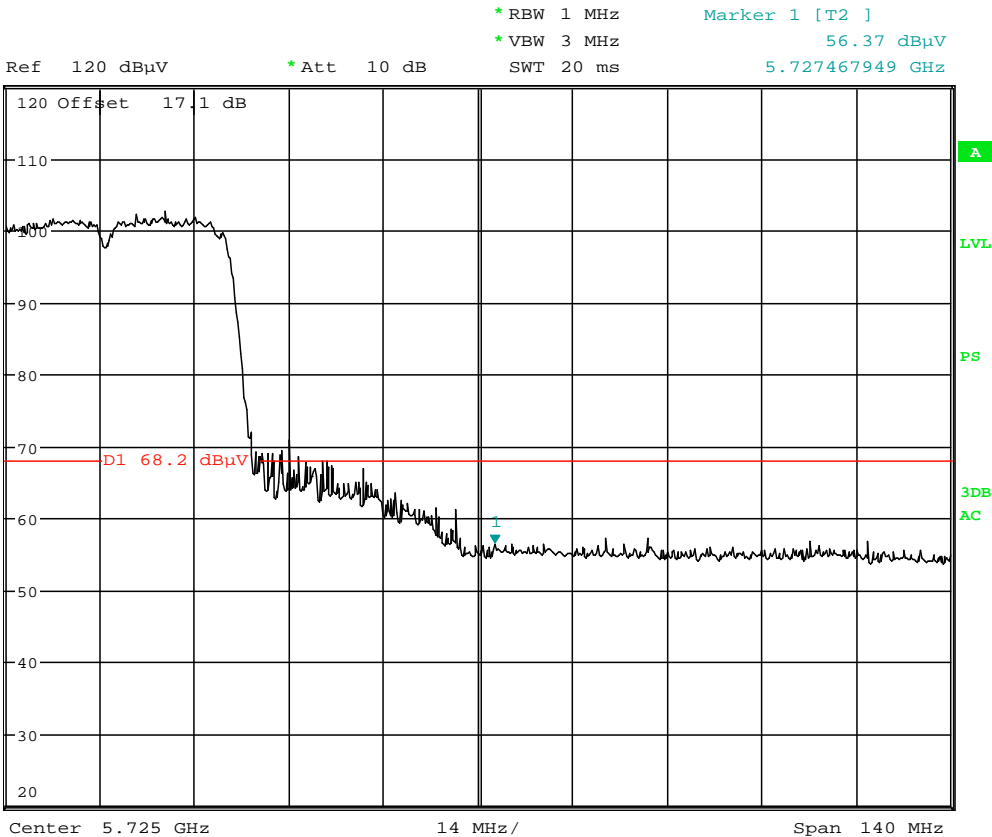
Plot 6-177. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 162 of 176

Radiated Band Edge Measurements (40MHz BW) (Cont'd)

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

Worst Case Mode: 802.11ac (40MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5670MHz
 Channel: 134



Date: 2.JAN.2014 12:56:58

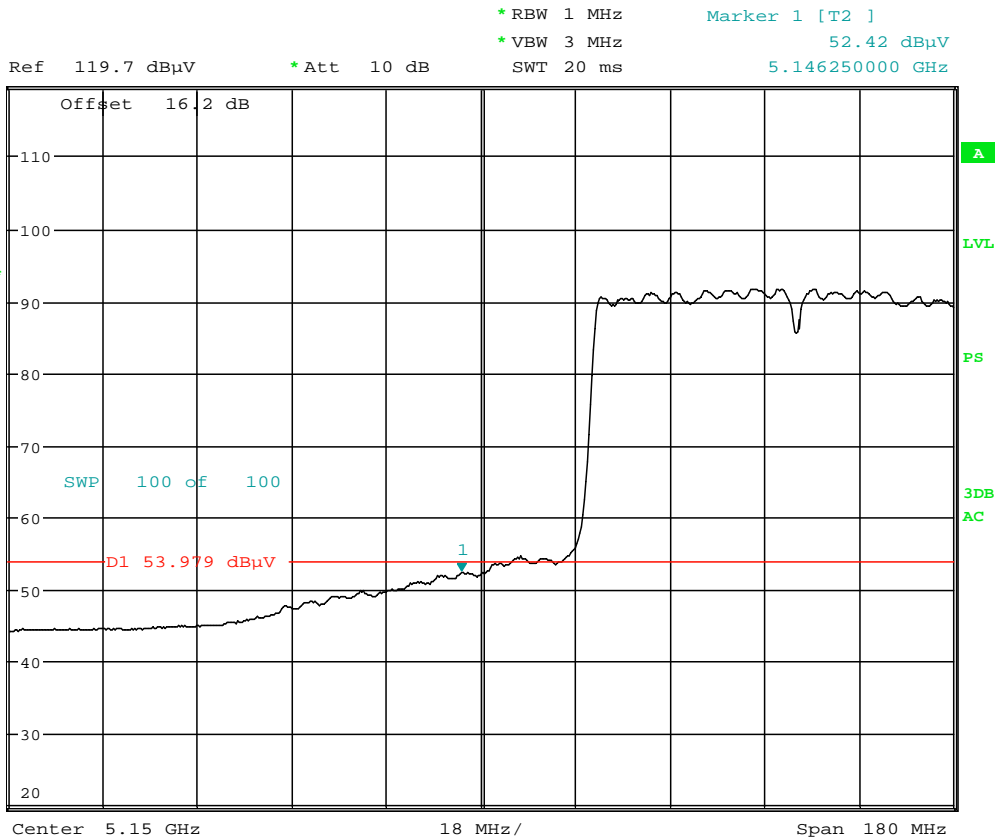
Plot 6-178. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 163 of 176

Radiated Band Edge Measurements (80MHz BW)

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

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5210MHz
 Channel: 42

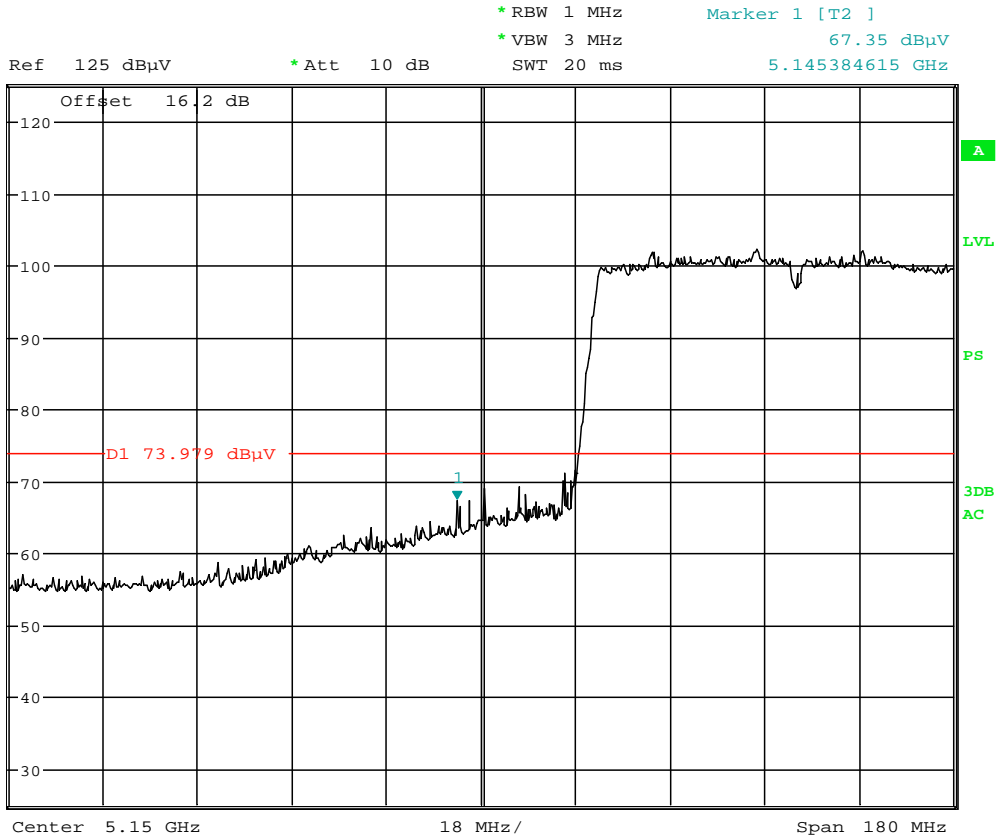


Date: 2.JAN.2014 12:24:11

Plot 6-179. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 164 of 176	

Radiated Band Edge Measurements (80MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 2.JAN.2014 12:22:43

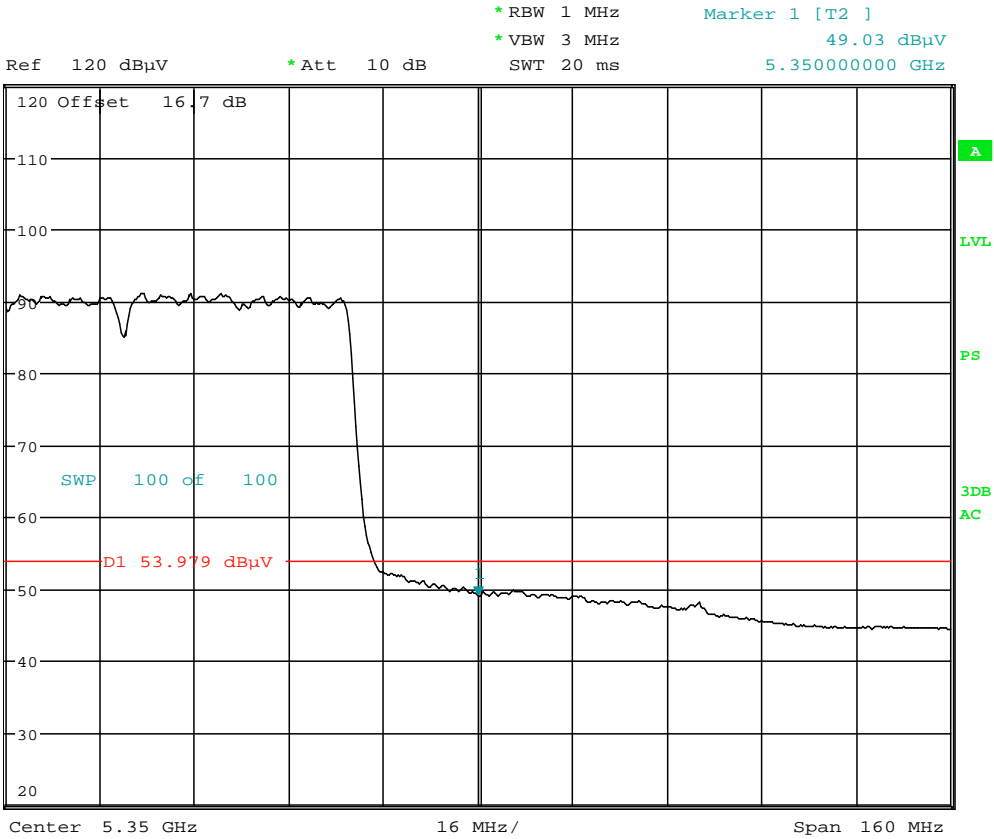
Plot 6-180. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 165 of 176

Radiated Band Edge Measurements (80MHz BW) (Cont'd)

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

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5290MHz
 Channel: 58

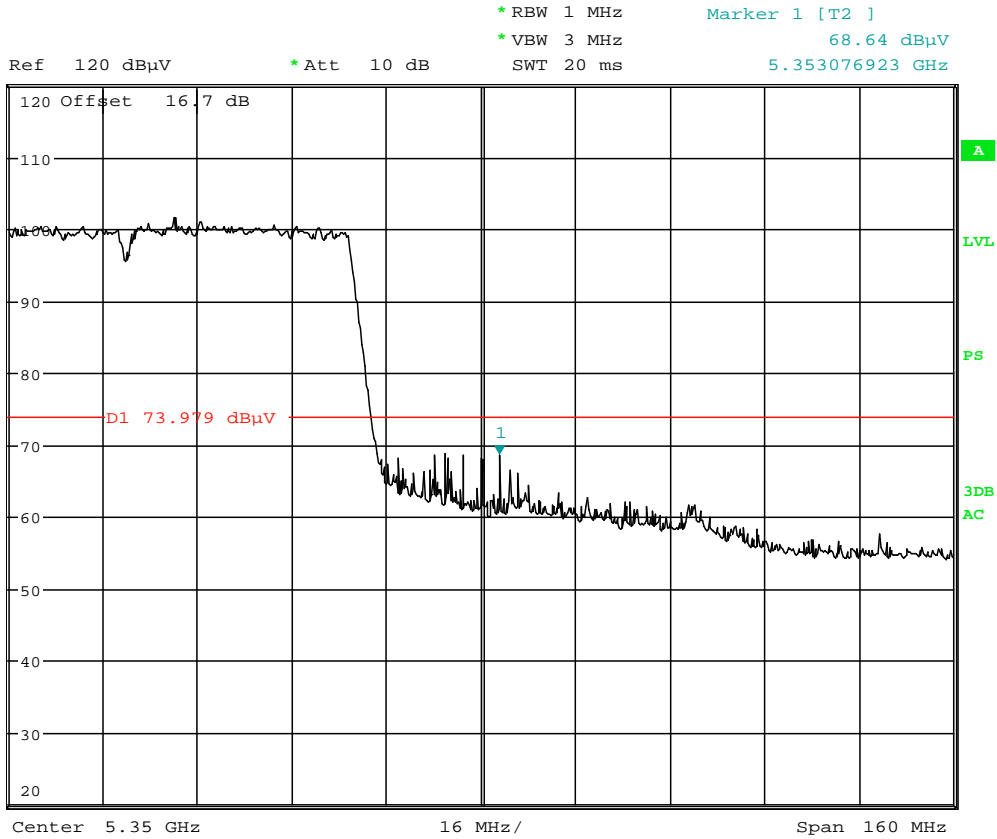


Date: 2.JAN.2014 12:35:49

Plot 6-181. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet	Page 166 of 176	

Radiated Band Edge Measurements (80MHz BW) (Cont'd)
§15.407(b)(1) and (2), §15.205 & §15.209; RSS-210 [A9.2]



Date: 2.JAN.2014 12:34:35

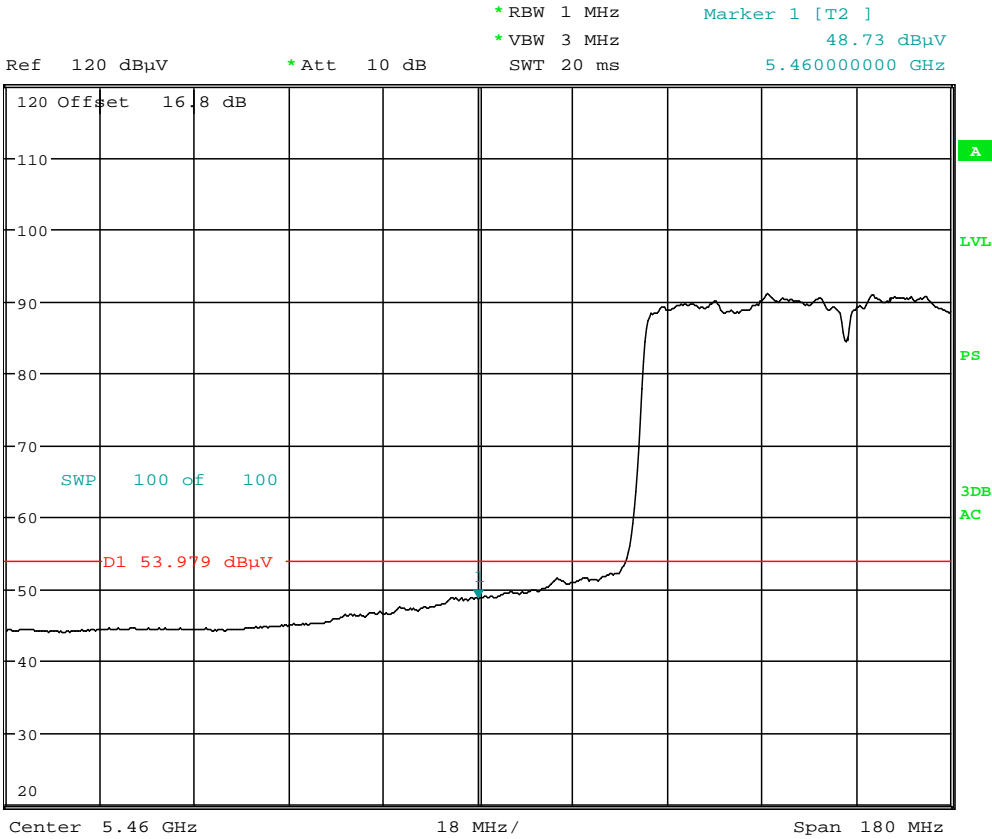
Plot 6-182. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1311252235.A3L	Test Dates: 12/30/2013 - 1/13/2014	EUT Type: Portable Tablet		Page 167 of 176

Radiated Band Edge Measurements (80MHz BW) (Cont'd)

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

Worst Case Mode: 802.11ac (80MHz)
 Worst Case Transfer Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106



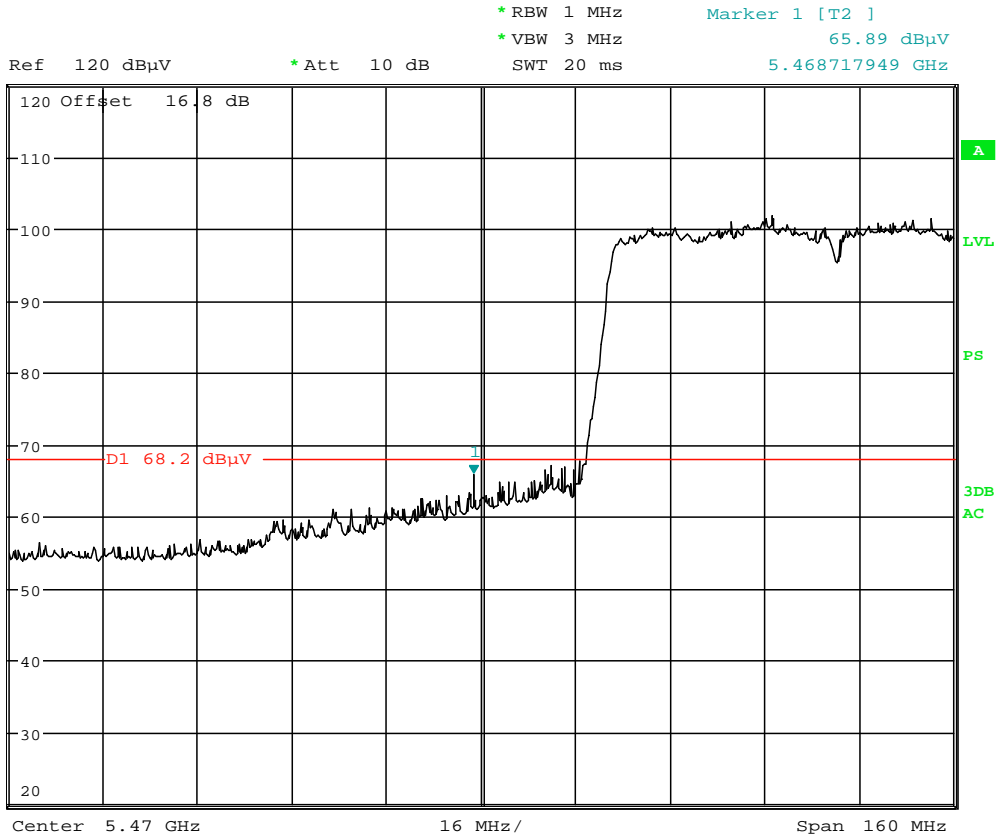
Date: 2.JAN.2014 12:49:24

Plot 6-183. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Radiated Band Edge Measurements (80MHz BW) (Cont'd)

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



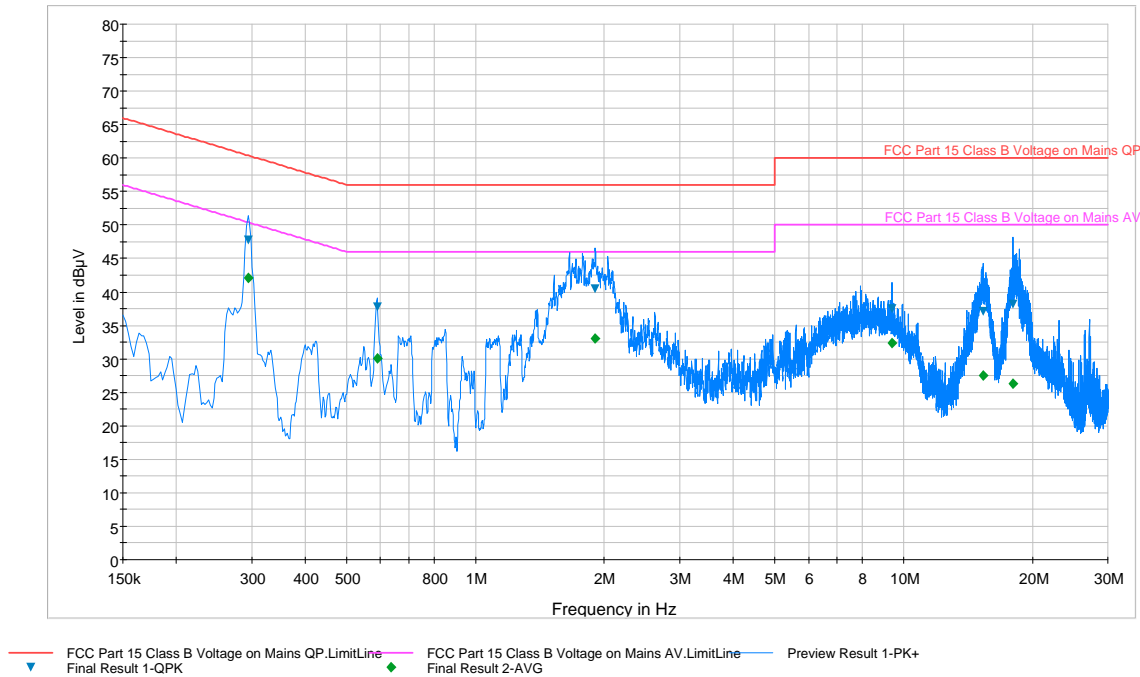
Date: 2.JAN.2014 12:47:43

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

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)	 Reviewed by: Quality Manager
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6.11 Line-Conducted Test Data

§15.207; RSS-Gen [7.2.2]



Plot 6-185. 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
0.294	L1	0.1	47.70	60.40	12.70	42.10	50.40	8.30
0.589	L1	0.0	37.70	56.00	18.30	30.10	46.00	15.90
1.903	L1	0.2	40.50	56.00	15.50	33.10	46.00	12.90
9.389	L1	0.6	37.50	60.00	22.50	32.30	50.00	17.70
15.329	L1	0.9	37.20	60.00	22.80	27.50	50.00	22.50
18.044	L1	1.1	38.20	60.00	21.80	26.40	50.00	23.60

Table 6-45. Line Conducted Data with 802.11a UNII Band 1 (L1)

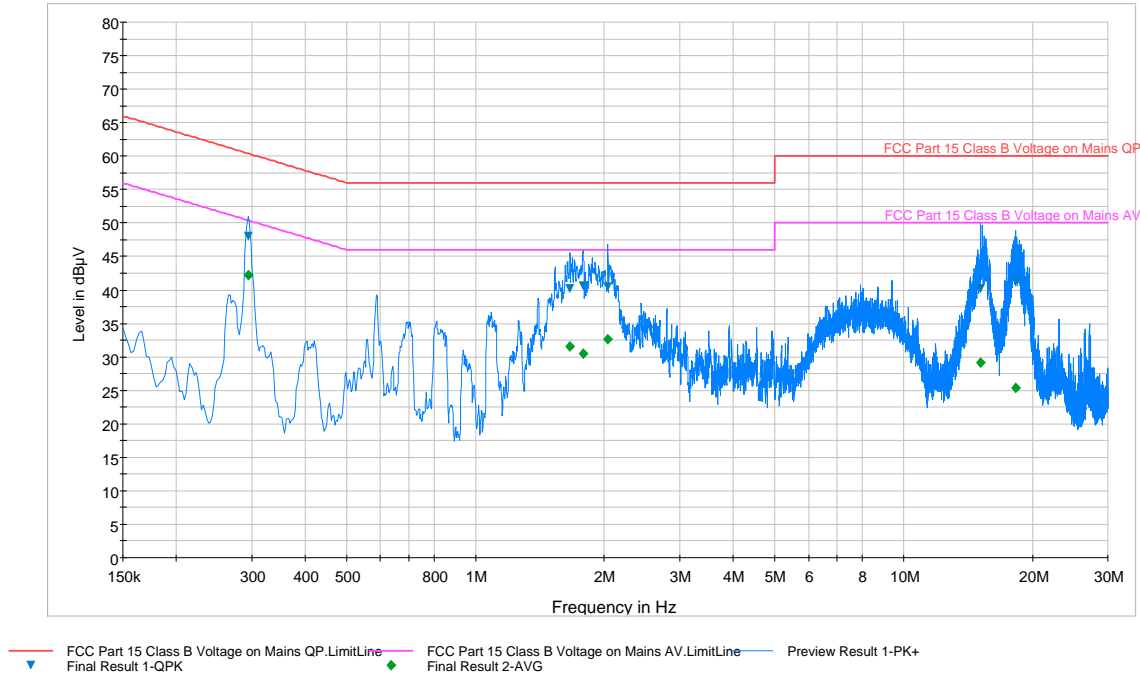
Notes:

- 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.

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-186. Line Conducted Plot with 802.11a UNII Band 1 (N)

Frequency MHz	Line	Corr. dB	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.294	N	0.1	48.00	60.40	12.40	42.30	50.40	8.10
1.662	N	0.2	40.20	56.00	15.80	31.60	46.00	14.40
1.781	N	0.2	40.60	56.00	15.40	30.50	46.00	15.50
2.038	N	0.2	40.50	56.00	15.50	32.60	46.00	13.40
15.133	N	1.0	40.20	60.00	19.80	29.10	50.00	20.90
18.305	N	1.3	41.30	60.00	18.70	25.40	50.00	24.60

Table 6-46. Line Conducted Data with 802.11a UNII Band 1 (N)

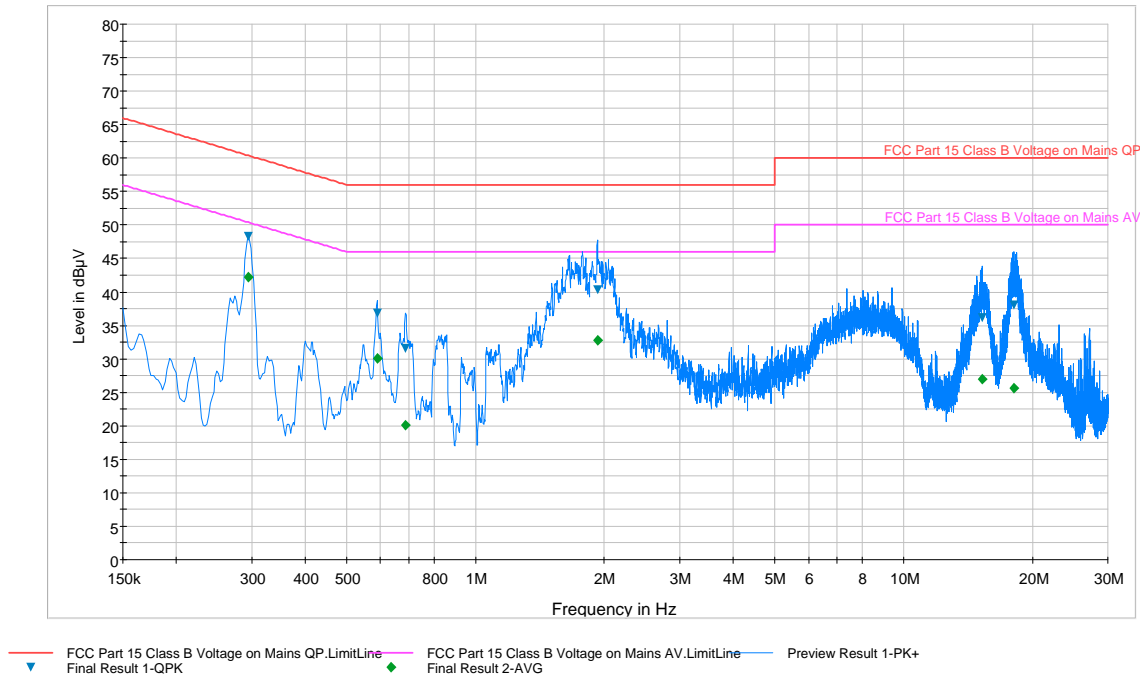
Notes:

- 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.

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-187. 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
0.294	L1	0.1	48.30	60.40	12.10	42.20	50.40	8.20
0.589	L1	0.0	36.90	56.00	19.10	30.10	46.00	15.90
0.686	L1	0.1	31.60	56.00	24.40	20.00	46.00	26.00
1.925	L1	0.2	40.30	56.00	15.70	32.80	46.00	13.20
15.254	L1	0.9	36.20	60.00	23.80	27.00	50.00	23.00
18.137	L1	1.1	38.00	60.00	22.00	25.70	50.00	24.30

Table 6-47. Line Conducted Data with 802.11a UNII Band 2A (L1)

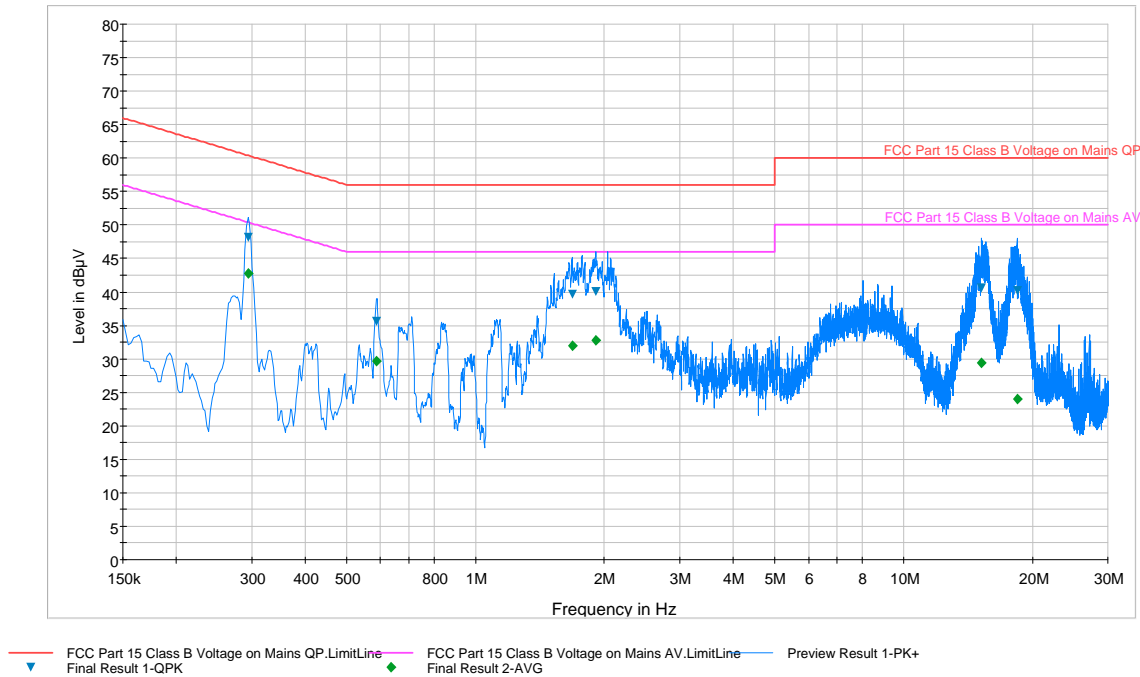
Notes:

- 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.

FCC ID: A3LSMP905V		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-188. 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
0.294	N	0.1	48.10	60.40	12.30	42.80	50.40	7.60
0.587	N	0.1	35.60	56.00	20.40	29.70	46.00	16.30
1.682	N	0.2	39.60	56.00	16.40	32.00	46.00	14.00
1.912	N	0.2	40.00	56.00	16.00	32.80	46.00	13.20
15.230	N	1.0	40.70	60.00	19.30	29.40	50.00	20.60
18.416	N	1.3	40.30	60.00	19.70	24.00	50.00	26.00

Table 6-48. Line Conducted Data with 802.11a UNII Band 2A (N)

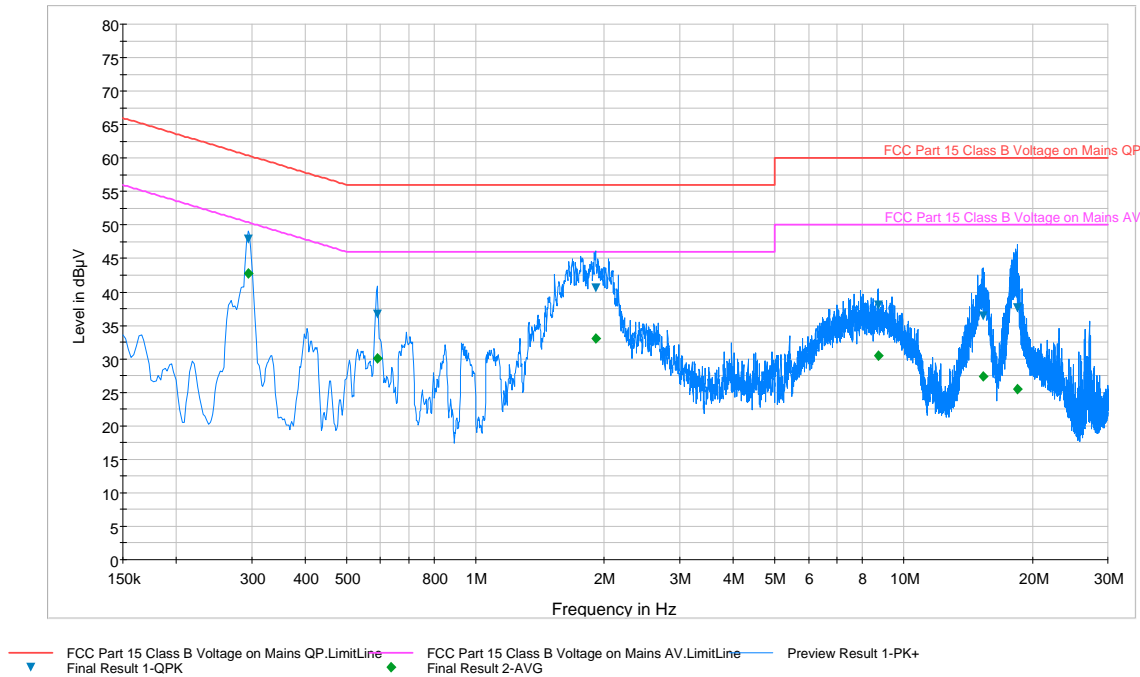
Notes:

- 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/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 (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-189. 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
0.294	L1	0.1	47.90	60.40	12.50	42.80	50.40	7.60
0.589	L1	0.0	36.70	56.00	19.30	30.00	46.00	16.00
1.907	L1	0.2	40.60	56.00	15.40	33.10	46.00	12.90
8.718	L1	0.5	38.10	60.00	21.90	30.40	50.00	19.60
15.353	L1	0.9	36.40	60.00	23.60	27.40	50.00	22.60
18.436	L1	1.2	37.70	60.00	22.30	25.50	50.00	24.50

Table 6-49. Line Conducted Plot with 802.11a UNII Band 2C (L1)

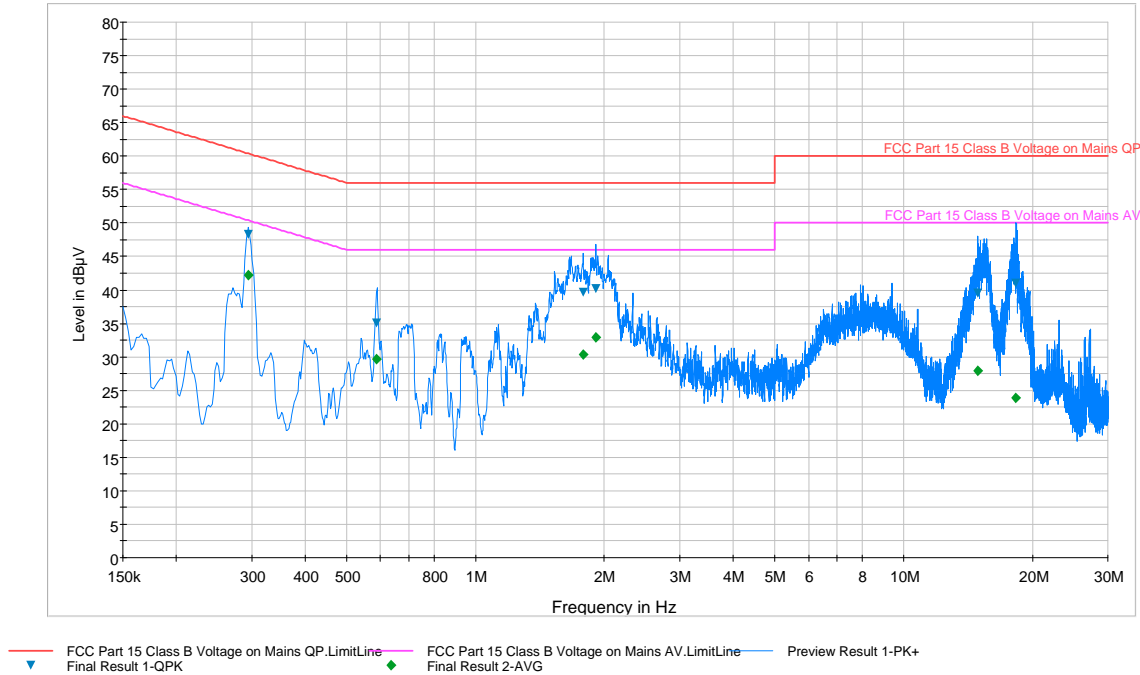
Notes:

- 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 (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-190. 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
0.294	N	0.1	48.30	60.40	12.10	42.20	50.40	8.20
0.587	N	0.1	35.10	56.00	20.90	29.70	46.00	16.30
1.786	N	0.2	39.60	56.00	16.40	30.40	46.00	15.60
1.910	N	0.2	40.20	56.00	15.80	33.00	46.00	13.00
14.921	N	1.0	39.60	60.00	20.40	27.90	50.00	22.10
18.323	N	1.3	41.00	60.00	19.00	23.90	50.00	26.10

Table 6-50. 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: A3LSMP905V** is in compliance with Part 15E of the FCC Rules.

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