

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)	5,180,000,005	5	0.00000010
100 %		- 30	5,179,999,977	-23	-0.00000044
100 %		- 20	5,180,000,000	0	0.00000000
100 %		- 10	5,179,999,995	-5	-0.00000010
100 %		0	5,180,000,024	24	0.00000046
100 %		+ 10	5,179,999,998	-2	-0.00000004
100 %		+ 20	5,180,000,012	12	0.00000023
100 %		+ 30	5,179,999,992	-8	-0.00000015
100 %		+ 40	5,180,000,008	8	0.00000015
100 %		+ 50	5,180,000,006	6	0.00000012
115 %	4.37	+ 20	5,180,000,023	23	0.00000044
BATT. ENDPOINT	3.40	+ 20	5,179,999,979	-21	-0.00000041

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: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer	Page 92 of 177	

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

VOLTAGE (%)	POWER (VDC)	TEMP (° C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,259,999,979	-21	-0.00000040
100 %		- 30	5,259,999,983	-17	-0.00000032
100 %		- 20	5,259,999,981	-19	-0.00000036
100 %		- 10	5,260,000,022	22	0.00000042
100 %		0	5,259,999,991	-9	-0.00000017
100 %		+ 10	5,260,000,024	24	0.00000046
100 %		+ 20	5,259,999,993	-7	-0.00000013
100 %		+ 30	5,260,000,018	18	0.00000034
100 %		+ 40	5,259,999,997	-3	-0.00000006
100 %		+ 50	5,259,999,976	-24	-0.00000046
115 %	4.37	+ 20	5,259,999,976	-24	-0.00000046
BATT. ENDPOINT	3.40	+ 20	5,260,000,007	7	0.00000013

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.

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer	Page 93 of 177	

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)	5,499,999,981	-19	-0.00000035
100 %		- 30	5,499,999,988	-12	-0.00000022
100 %		- 20	5,500,000,021	21	0.00000038
100 %		- 10	5,499,999,976	-24	-0.00000044
100 %		0	5,500,000,011	11	0.00000020
100 %		+ 10	5,499,999,988	-12	-0.00000022
100 %		+ 20	5,499,999,977	-23	-0.00000042
100 %		+ 30	5,499,999,989	-11	-0.00000020
100 %		+ 40	5,500,000,017	17	0.00000031
100 %		+ 50	5,499,999,981	-19	-0.00000035
115 %	4.37	+ 20	5,500,000,003	3	0.00000005
BATT. ENDPOINT	3.40	+ 20	5,499,999,981	-19	-0.00000035

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.

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer	Page 94 of 177	

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)	5,180,000,024	24	0.00000046
100 %		- 30	5,179,999,975	-25	-0.00000048
100 %		- 20	5,180,000,006	6	0.00000012
100 %		- 10	5,179,999,999	-1	-0.00000002
100 %		0	5,180,000,002	2	0.00000004
100 %		+ 10	5,179,999,977	-23	-0.00000044
100 %		+ 20	5,180,000,001	1	0.00000002
100 %		+ 30	5,179,999,991	-9	-0.00000017
100 %		+ 40	5,180,000,002	2	0.00000004
100 %		+ 50	5,180,000,015	15	0.00000029
115 %	4.37	+ 20	5,180,000,012	12	0.00000023
BATT. ENDPOINT	3.40	+ 20	5,180,000,001	1	0.00000002

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.

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer	Page 95 of 177	

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

VOLTAGE (%)	POWER (VDC)	TEMP (° C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,259,999,978	-22	-0.00000042
100 %		- 30	5,259,999,995	-5	-0.00000010
100 %		- 20	5,260,000,011	11	0.00000021
100 %		- 10	5,259,999,983	-17	-0.00000032
100 %		0	5,260,000,016	16	0.00000030
100 %		+ 10	5,259,999,996	-4	-0.00000008
100 %		+ 20	5,259,999,990	-10	-0.00000019
100 %		+ 30	5,260,000,023	23	0.00000044
100 %		+ 40	5,260,000,022	22	0.00000042
100 %		+ 50	5,259,999,994	-6	-0.00000011
115 %	4.37	+ 20	5,260,000,024	24	0.00000046
BATT. ENDPOINT	3.40	+ 20	5,260,000,023	23	0.00000044

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.

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer	Page 96 of 177	

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)	5,500,000,016	16	0.00000029
100 %		- 30	5,500,000,020	20	0.00000036
100 %		- 20	5,500,000,024	24	0.00000044
100 %		- 10	5,499,999,993	-7	-0.00000013
100 %		0	5,500,000,013	13	0.00000024
100 %		+ 10	5,499,999,996	-4	-0.00000007
100 %		+ 20	5,499,999,979	-21	-0.00000038
100 %		+ 30	5,500,000,000	0	0.00000000
100 %		+ 40	5,499,999,987	-13	-0.00000024
100 %		+ 50	5,499,999,989	-11	-0.00000020
115 %	4.37	+ 20	5,500,000,014	14	0.00000025
BATT. ENDPOINT	3.40	+ 20	5,500,000,012	12	0.00000022

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.

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer	Page 97 of 177	

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

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 98 of 177

Peak Measurements above 1GHz

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

Peak Measurements below 1GHz

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

Test Setup

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

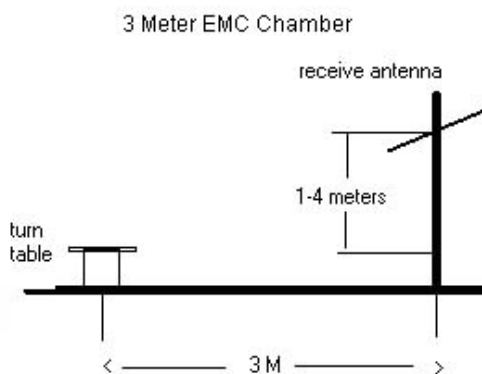


Figure 6-5. Test Instrument & Measurement Setup

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer	Page 99 of 177	

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.

Sample Calculations

Determining Spurious Emissions Levels

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

Radiated Band Edge Measurement Offset

- o The amplitude offset shown in the radiated restricted band edge plots in Section 6.8 was calculated using the formula:

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

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 100 of 177

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: 3 Meters
Operating Frequency: 5180MHz
Channel: 36

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10360.00	-125.00	Peak	H	47.06	29.06	68.20	-39.14
* 15540.00	-135.00	Average	H	52.63	24.63	53.98	-29.35
* 15540.00	-125.00	Peak	H	52.63	34.63	73.98	-39.35
* 20720.00	-135.00	Average	H	53.27	25.27	53.98	-28.71
* 20720.00	-125.00	Peak	H	53.27	35.27	73.98	-38.71
25900.00	-125.00	Peak	H	72.27	54.27	68.20	-13.93

Table 6-27. Radiated Measurements

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10400.00	-125.00	Peak	H	47.23	29.23	68.20	-38.97
* 15600.00	-135.00	Average	H	52.84	24.84	53.98	-29.14
* 15600.00	-125.00	Peak	H	52.84	34.84	73.98	-39.14
* 20800.00	-135.00	Average	H	53.60	25.60	53.98	-28.38
* 20800.00	-125.00	Peak	H	53.60	35.60	73.98	-38.38
26000.00	-125.00	Peak	H	72.60	54.60	68.20	-13.60

Table 6-28. Radiated Measurements

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)				Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer				Page 101 of 177

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10480.00	-125.00	Peak	H	47.26	29.26	68.20	-38.94
* 15720.00	-135.00	Average	H	52.73	24.73	53.98	-29.25
* 15720.00	-125.00	Peak	H	52.73	34.73	73.98	-39.25
* 20960.00	-135.00	Average	H	54.25	26.25	53.98	-27.73
* 20960.00	-125.00	Peak	H	54.25	36.25	73.98	-37.73
26200.00	-125.00	Peak	H	73.26	55.26	68.20	-12.94

Table 6-29. Radiated Measurements

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10520.00	-125.00	Peak	H	47.26	29.26	68.20	-38.94
* 15780.00	-135.00	Average	H	52.68	24.68	53.98	-29.30
* 15780.00	-125.00	Peak	H	52.68	34.68	73.98	-39.30
* 21040.00	-135.00	Average	H	54.57	26.57	53.98	-27.41
* 21040.00	-125.00	Peak	H	54.57	36.57	73.98	-37.41
26300.00	-125.00	Peak	H	73.58	55.58	68.20	-12.62

Table 6-30. Radiated Measurements

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 102 of 177

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10560.00	-125.00	Peak	H	47.24	29.24	68.20	-38.96
* 15840.00	-135.00	Average	H	52.81	24.81	53.98	-29.17
* 15840.00	-125.00	Peak	H	52.81	34.81	73.98	-39.17
* 21120.00	-135.00	Average	H	54.90	26.90	53.98	-27.08
* 21120.00	-125.00	Peak	H	54.90	36.90	73.98	-37.08
26400.00	-125.00	Peak	H	73.90	55.90	68.20	-12.30

Table 6-31. Radiated Measurements

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 10640.00	-135.00	Average	H	47.33	19.33	53.98	-34.65
* 10640.00	-125.00	Peak	H	47.33	29.33	73.98	-44.65
* 15960.00	-135.00	Average	H	53.30	25.30	53.98	-28.68
* 15960.00	-125.00	Peak	H	53.30	35.30	73.98	-38.68
* 21280.00	-135.00	Average	H	55.54	27.54	53.98	-26.44
* 21280.00	-125.00	Peak	H	55.54	37.54	73.98	-36.44
26600.00	-125.00	Peak	H	74.55	56.55	68.20	-11.65

Table 6-32. Radiated Measurements

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 103 of 177

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

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
*	11000.00	-135.00	Average	H	47.50	19.50	53.98	-34.48
*	11000.00	-125.00	Peak	H	47.50	29.50	73.98	-44.48
	16500.00	-125.00	Peak	H	55.04	37.04	68.20	-31.16
	22000.00	-125.00	Peak	H	58.37	40.37	68.20	-27.83
	27500.00	-125.00	Peak	H	77.38	59.38	68.20	-8.82

Table 6-33. Radiated Measurements

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

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
*	11160.00	-135.00	Average	H	48.04	20.04	53.98	-33.94
*	11160.00	-125.00	Peak	H	48.04	30.04	73.98	-43.94
	16740.00	-125.00	Peak	H	54.39	36.39	68.20	-31.81
*	22320.00	-135.00	Average	H	59.60	31.60	53.98	-22.38
*	22320.00	-125.00	Peak	H	59.60	41.60	73.98	-32.38
	27900.00	-125.00	Peak	H	78.61	60.61	68.20	-7.59

Table 6-34. Radiated Measurements

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

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
*	11400.00	-135.00	Average	H	48.02	20.02	53.98	-33.96
*	11400.00	-125.00	Peak	H	48.02	30.02	73.98	-43.96
	17100.00	-125.00	Peak	H	54.32	36.32	68.20	-31.88
*	22800.00	-135.00	Average	H	61.42	33.42	53.98	-20.56
*	22800.00	-125.00	Peak	H	61.42	43.42	73.98	-30.56
	28500.00	-125.00	Peak	H	80.42	62.42	68.20	-5.78

Table 6-35. Radiated Measurements

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 105 of 177

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: 3 Meters
Operating Frequency: 5180MHz
Channel: 36

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10360.00	-125.00	Peak	H	47.06	29.06	68.20	-39.14
* 15540.00	-135.00	Average	H	52.63	24.63	53.98	-29.35
* 15540.00	-125.00	Peak	H	52.63	34.63	73.98	-39.35
* 20720.00	-135.00	Average	H	53.27	25.27	53.98	-28.71
* 20720.00	-125.00	Peak	H	53.27	35.27	73.98	-38.71
25900.00	-125.00	Peak	H	72.27	54.27	68.20	-13.93

Table 6-36. Radiated Measurements

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10400.00	-125.00	Peak	H	47.23	29.23	68.20	-38.97
* 15600.00	-135.00	Average	H	52.84	24.84	53.98	-29.14
* 15600.00	-125.00	Peak	H	52.84	34.84	73.98	-39.14
* 20800.00	-135.00	Average	H	53.60	25.60	53.98	-28.38
* 20800.00	-125.00	Peak	H	53.60	35.60	73.98	-38.38
26000.00	-125.00	Peak	H	72.60	54.60	68.20	-13.60

Table 6-37. Radiated Measurements

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)				Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer				Page 106 of 177

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10480.00	-125.00	Peak	H	47.26	29.26	68.20	-38.94
* 15720.00	-135.00	Average	H	52.73	24.73	53.98	-29.25
* 15720.00	-125.00	Peak	H	52.73	34.73	73.98	-39.25
* 20960.00	-135.00	Average	H	54.25	26.25	53.98	-27.73
* 20960.00	-125.00	Peak	H	54.25	36.25	73.98	-37.73
26200.00	-125.00	Peak	H	73.26	55.26	68.20	-12.94

Table 6-38. Radiated Measurements

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10520.00	-125.00	Peak	H	47.26	29.26	68.20	-38.94
* 15780.00	-135.00	Average	H	52.68	24.68	53.98	-29.30
* 15780.00	-125.00	Peak	H	52.68	34.68	73.98	-39.30
* 21040.00	-135.00	Average	H	54.57	26.57	53.98	-27.41
* 21040.00	-125.00	Peak	H	54.57	36.57	73.98	-37.41
26300.00	-125.00	Peak	H	73.58	55.58	68.20	-12.62

Table 6-39. Radiated Measurements

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 107 of 177

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10560.00	-125.00	Peak	H	47.24	29.24	68.20	-38.96
* 15840.00	-135.00	Average	H	52.81	24.81	53.98	-29.17
* 15840.00	-125.00	Peak	H	52.81	34.81	73.98	-39.17
* 21120.00	-135.00	Average	H	54.90	26.90	53.98	-27.08
* 21120.00	-125.00	Peak	H	54.90	36.90	73.98	-37.08
26400.00	-125.00	Peak	H	73.90	55.90	68.20	-12.30

Table 6-40. Radiated Measurements

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

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
* 10640.00	-135.00	Average	H	47.33	19.33	53.98	-34.65
* 10640.00	-125.00	Peak	H	47.33	29.33	73.98	-44.65
* 15960.00	-135.00	Average	H	53.30	25.30	53.98	-28.68
* 15960.00	-125.00	Peak	H	53.30	35.30	73.98	-38.68
* 21280.00	-135.00	Average	H	55.54	27.54	53.98	-26.44
* 21280.00	-125.00	Peak	H	55.54	37.54	73.98	-36.44
26600.00	-125.00	Peak	H	74.55	56.55	68.20	-11.65

Table 6-41. Radiated Measurements

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 108 of 177

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

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
*	11000.00	-135.00	Average	H	47.50	19.50	53.98	-34.48
*	11000.00	-125.00	Peak	H	47.50	29.50	73.98	-44.48
	16500.00	-125.00	Peak	H	55.04	37.04	68.20	-31.16
	22000.00	-125.00	Peak	H	58.37	40.37	68.20	-27.83
	27500.00	-125.00	Peak	H	77.38	59.38	68.20	-8.82

Table 6-42. Radiated Measurements

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

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
*	11160.00	-135.00	Average	H	48.04	20.04	53.98	-33.94
*	11160.00	-125.00	Peak	H	48.04	30.04	73.98	-43.94
	16740.00	-125.00	Peak	H	54.39	36.39	68.20	-31.81
*	22320.00	-135.00	Average	H	59.60	31.60	53.98	-22.38
*	22320.00	-125.00	Peak	H	59.60	41.60	73.98	-32.38
	27900.00	-125.00	Peak	H	78.61	60.61	68.20	-7.59

Table 6-43. Radiated Measurements

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 109 of 177

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

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
*	11400.00	-135.00	Average	H	48.02	20.02	53.98	-33.96
*	11400.00	-125.00	Peak	H	48.02	30.02	73.98	-43.96
	17100.00	-125.00	Peak	H	54.32	36.32	68.20	-31.88
*	22800.00	-135.00	Average	H	61.42	33.42	53.98	-20.56
*	22800.00	-125.00	Peak	H	61.42	43.42	73.98	-30.56
	28500.00	-125.00	Peak	H	80.42	62.42	68.20	-5.78

Table 6-44. Radiated Measurements

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 110 of 177

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

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

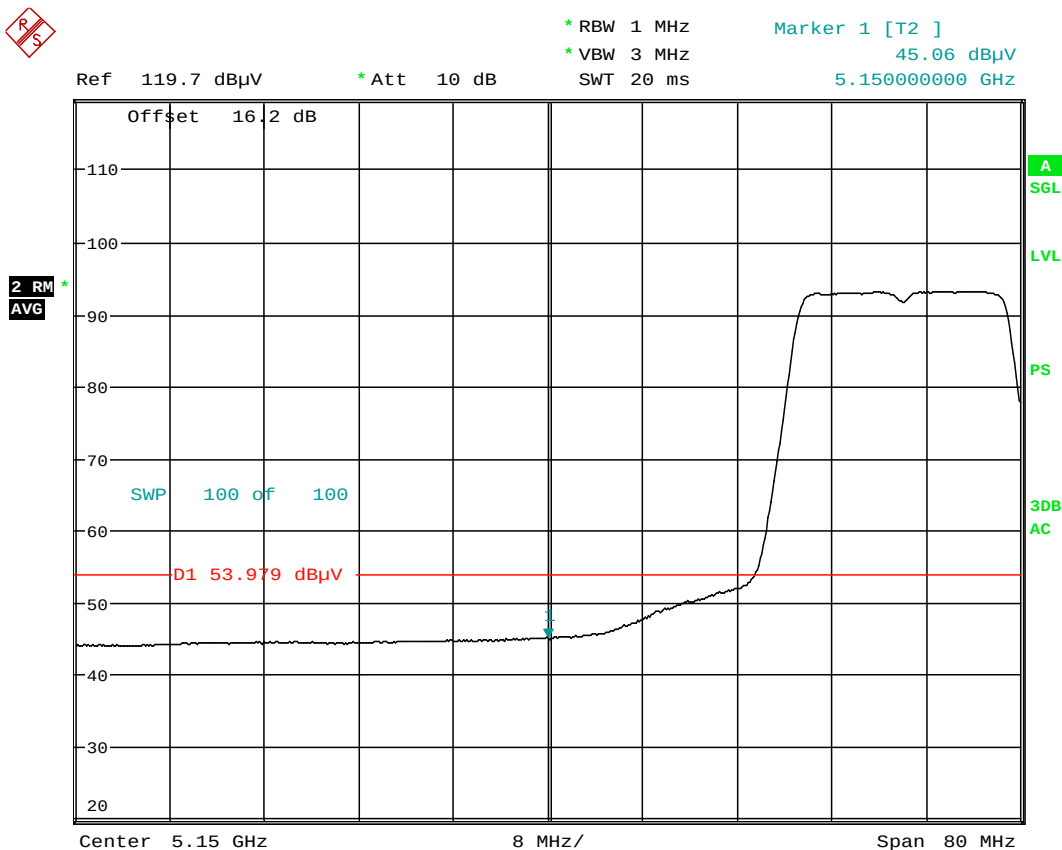
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36



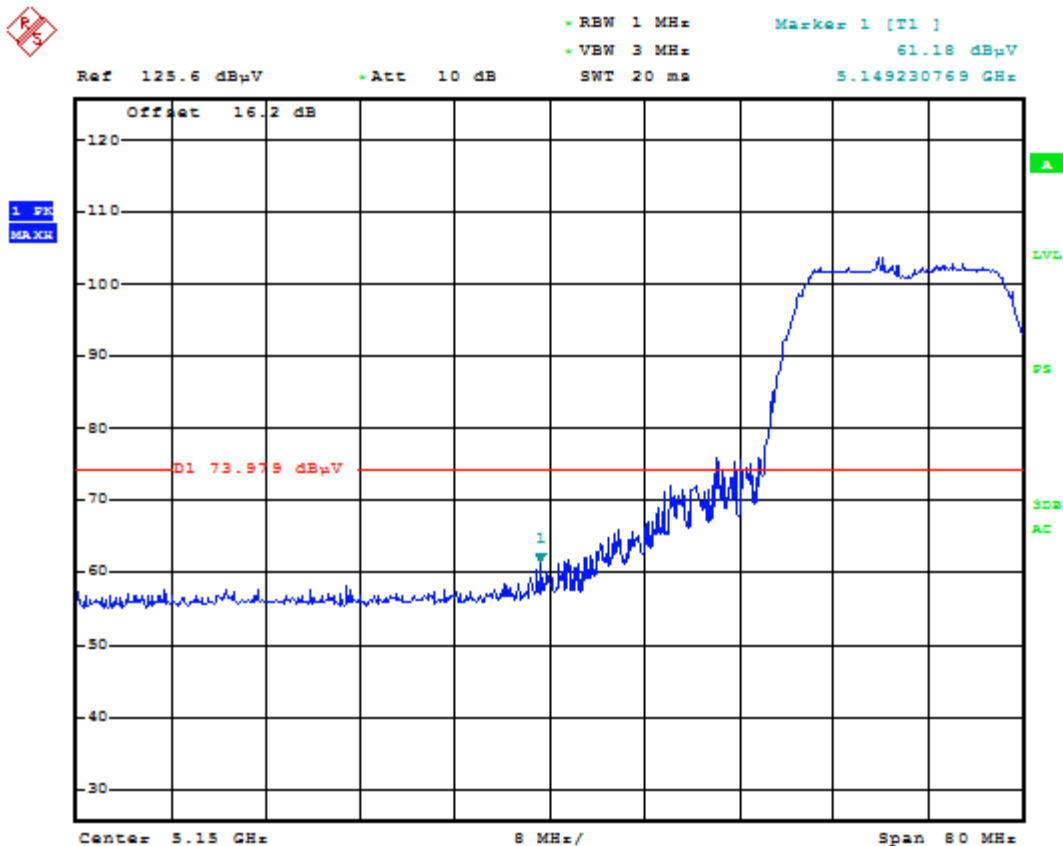
Date: 6.DEC.2013 21:15:44

Plot 6-128. Radiated Restricted Lower Band Edge Plot (Average - UNII Band 1)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 111 of 177

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

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



Date: 6.DEC.2013 21:16:03

Plot 6-129. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 1)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 112 of 177

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

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

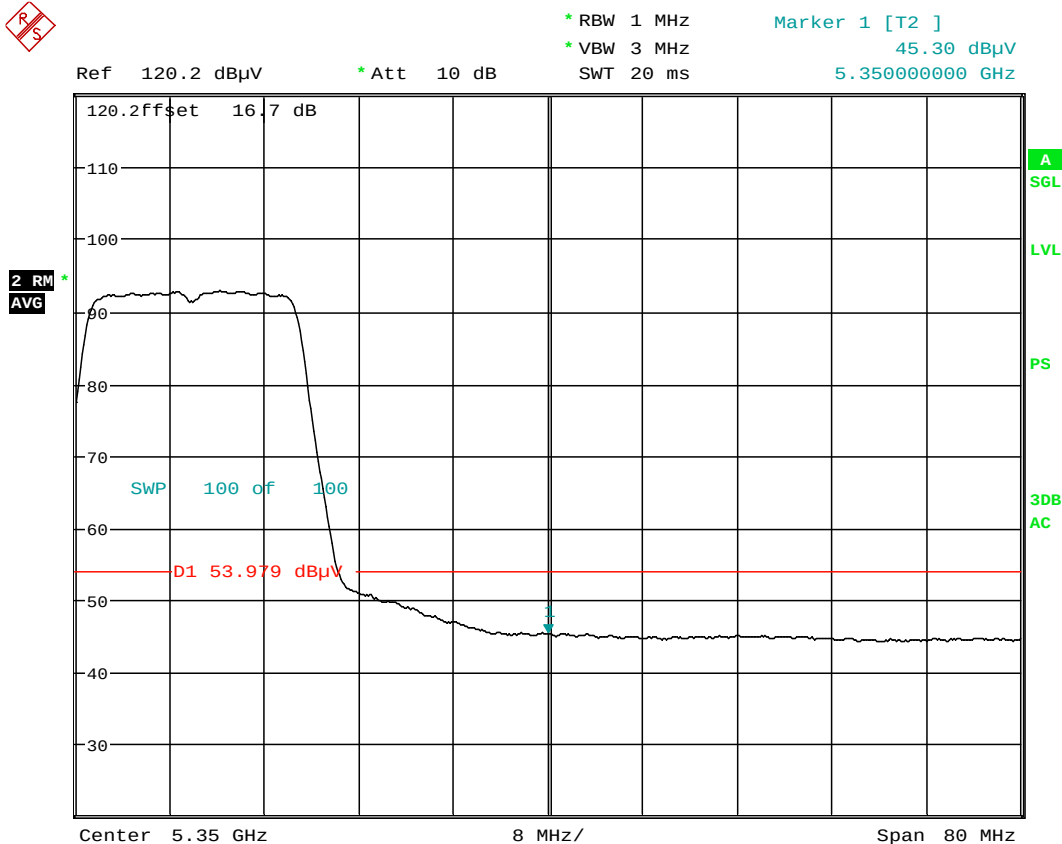
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64



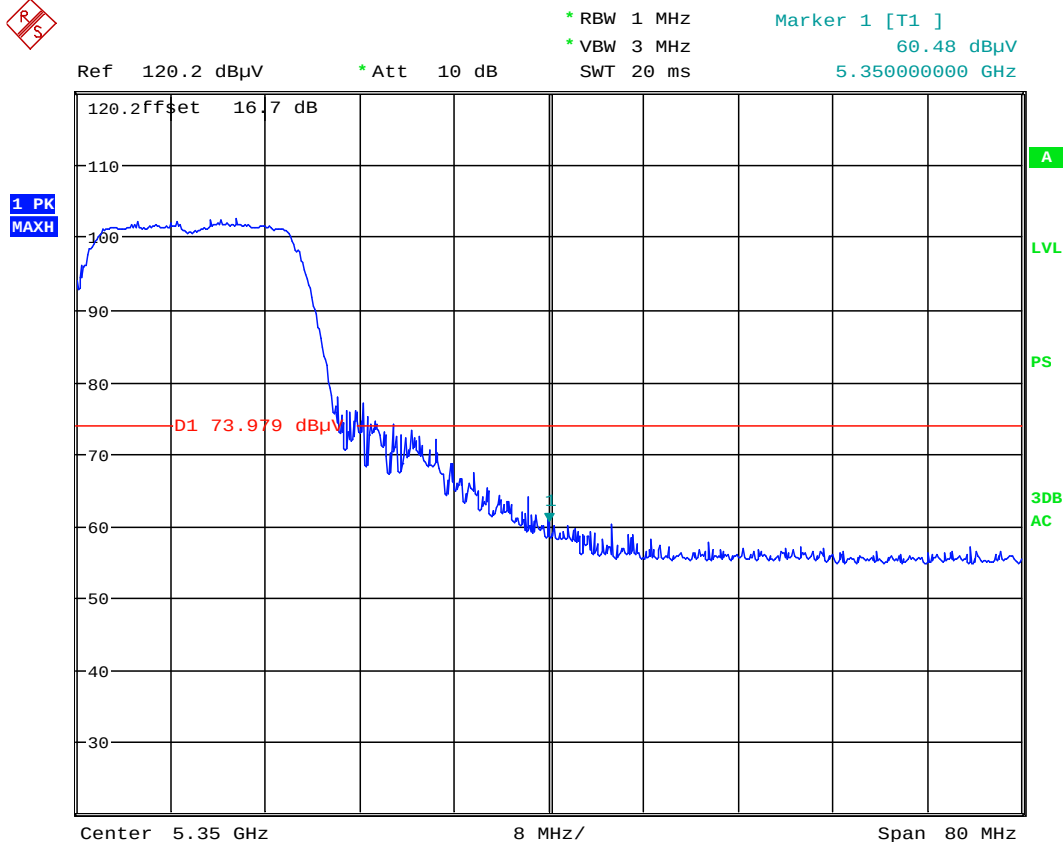
Date: 6.DEC.2013 22:01:42

Plot 6-130. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 113 of 177

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

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



Date: 6.DEC.2013 22:02:07

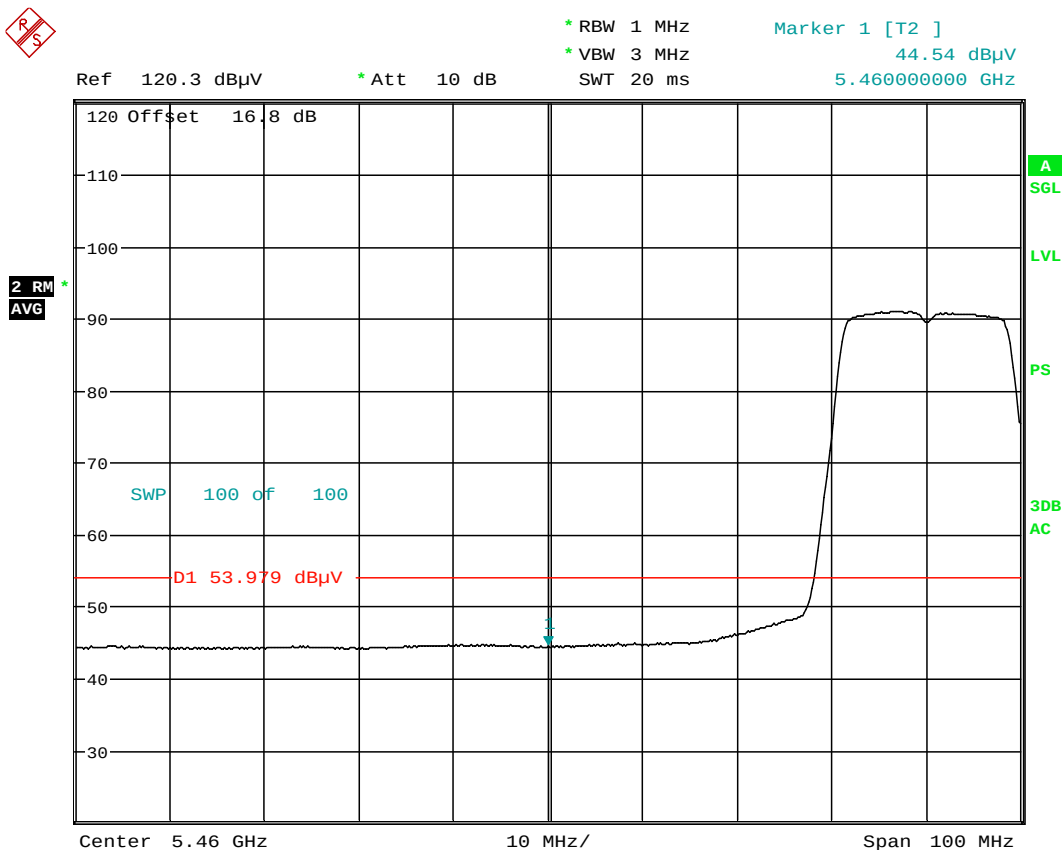
Plot 6-131. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 114 of 177

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



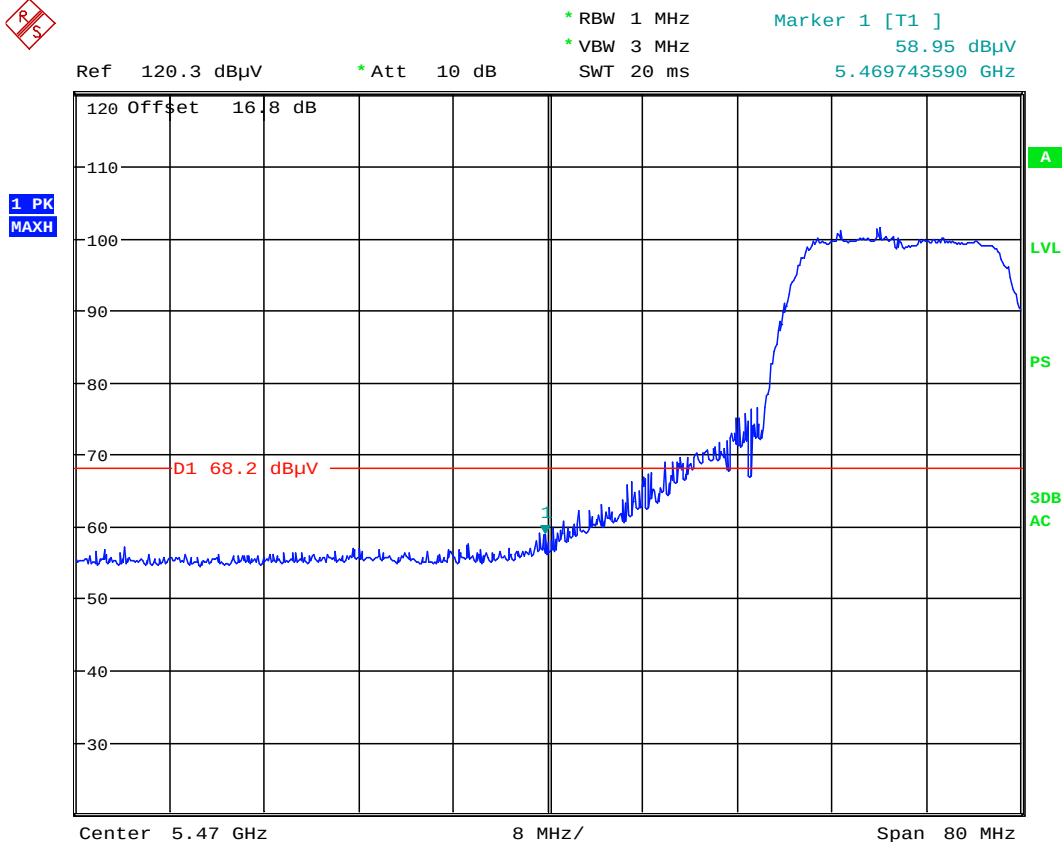
Date: 6.DEC.2013 22:49:58

Plot 6-132. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 115 of 177

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

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



Date: 6.DEC.2013 22:50:24

Plot 6-133. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 116 of 177

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

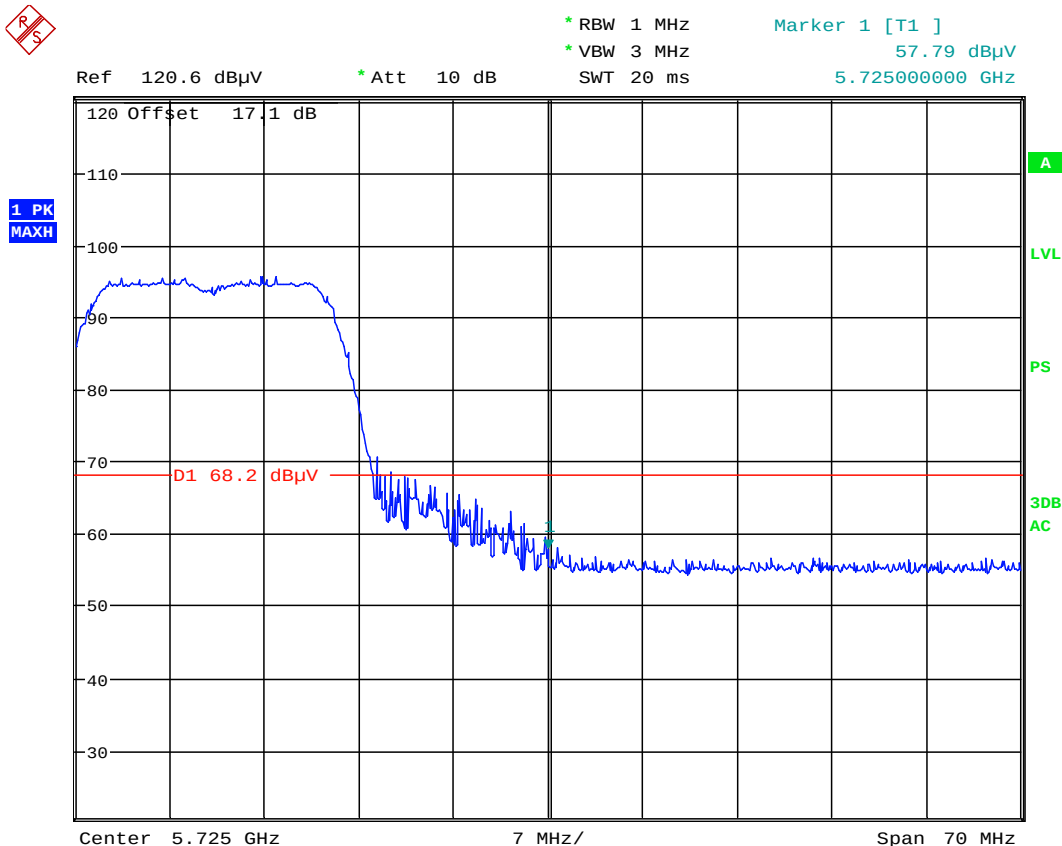
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5700MHz

Channel: 140



Date: 6.DEC.2013 22:47:48

Plot 6-134. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 117 of 177

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

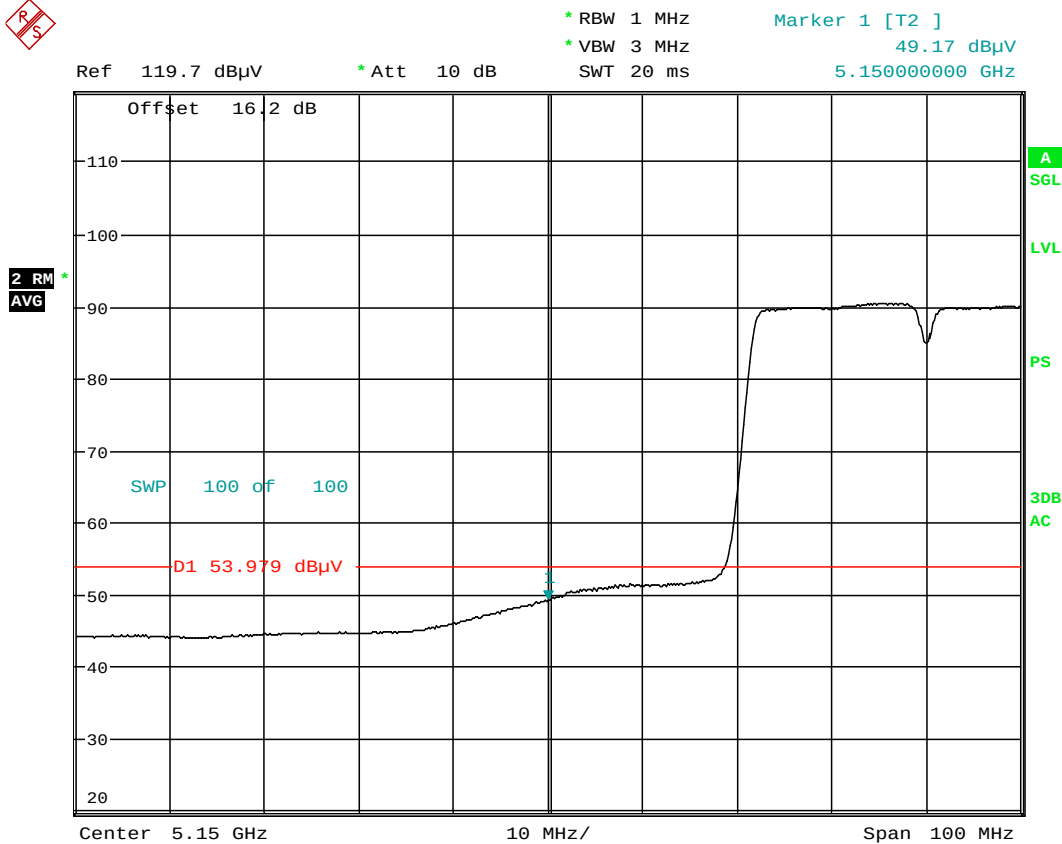
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38



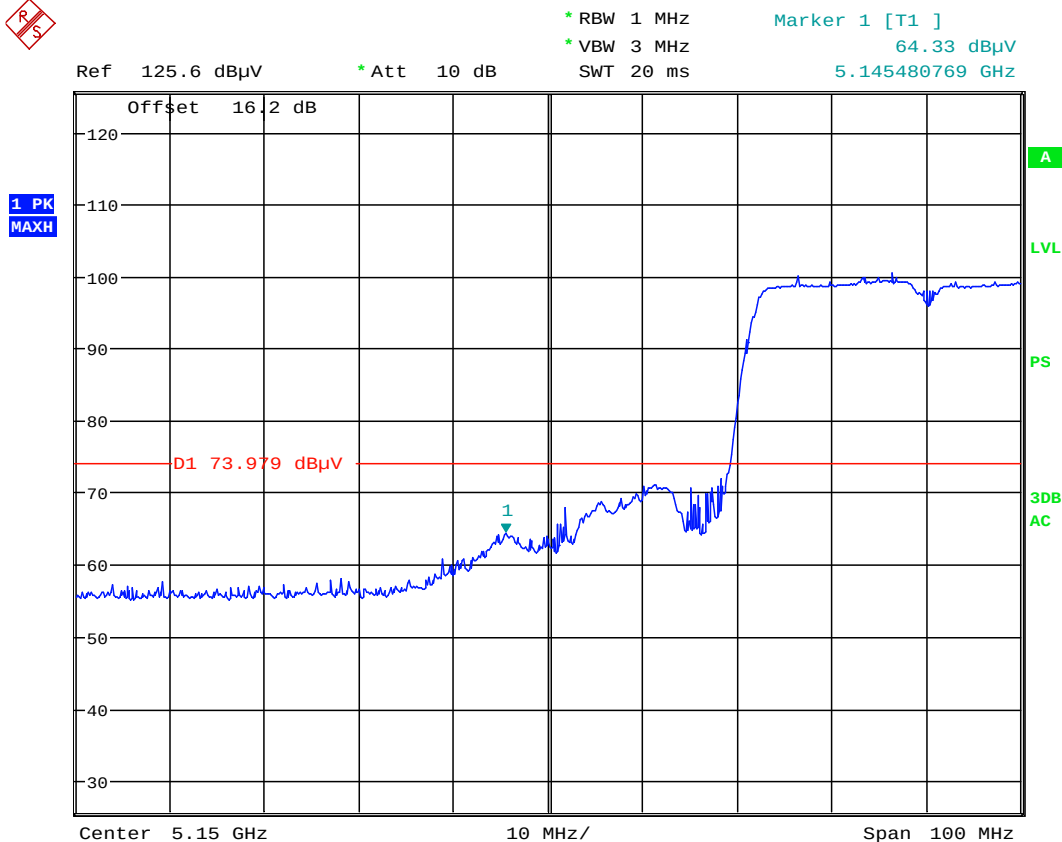
Date: 6.DEC.2013 21:14:04

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 118 of 177

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

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



Date: 6.DEC.2013 21:13:39

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 119 of 177

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

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

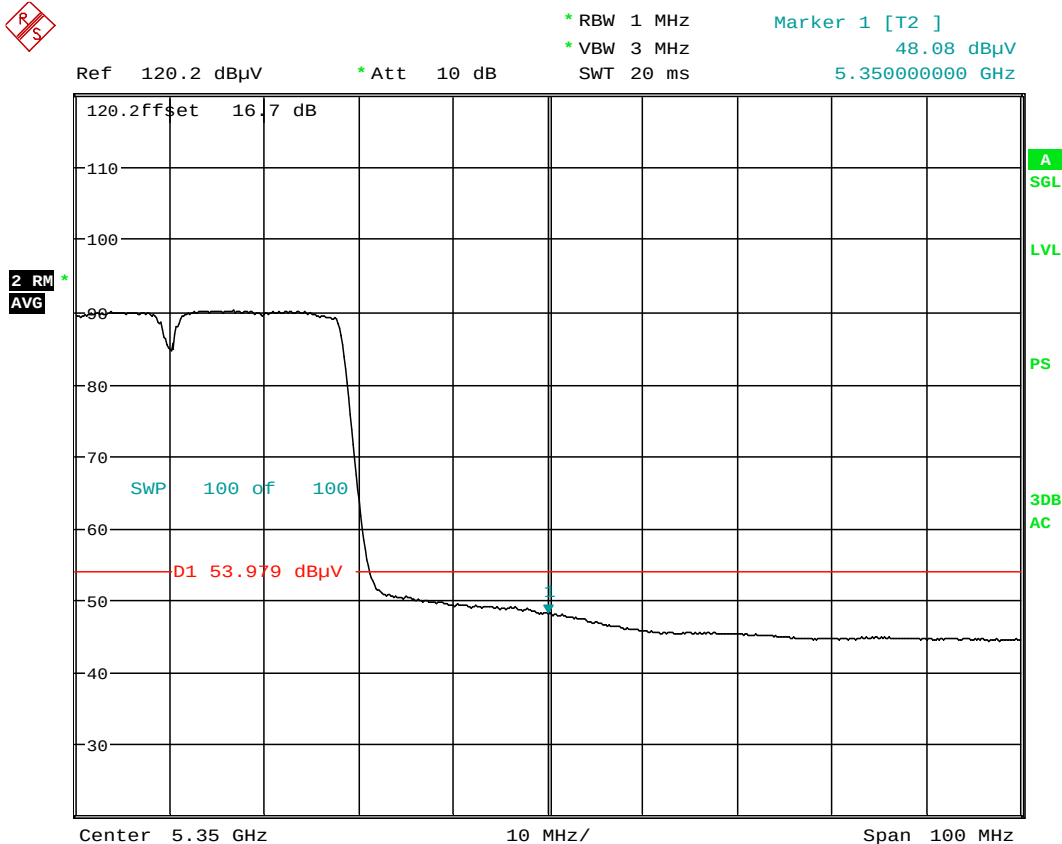
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62



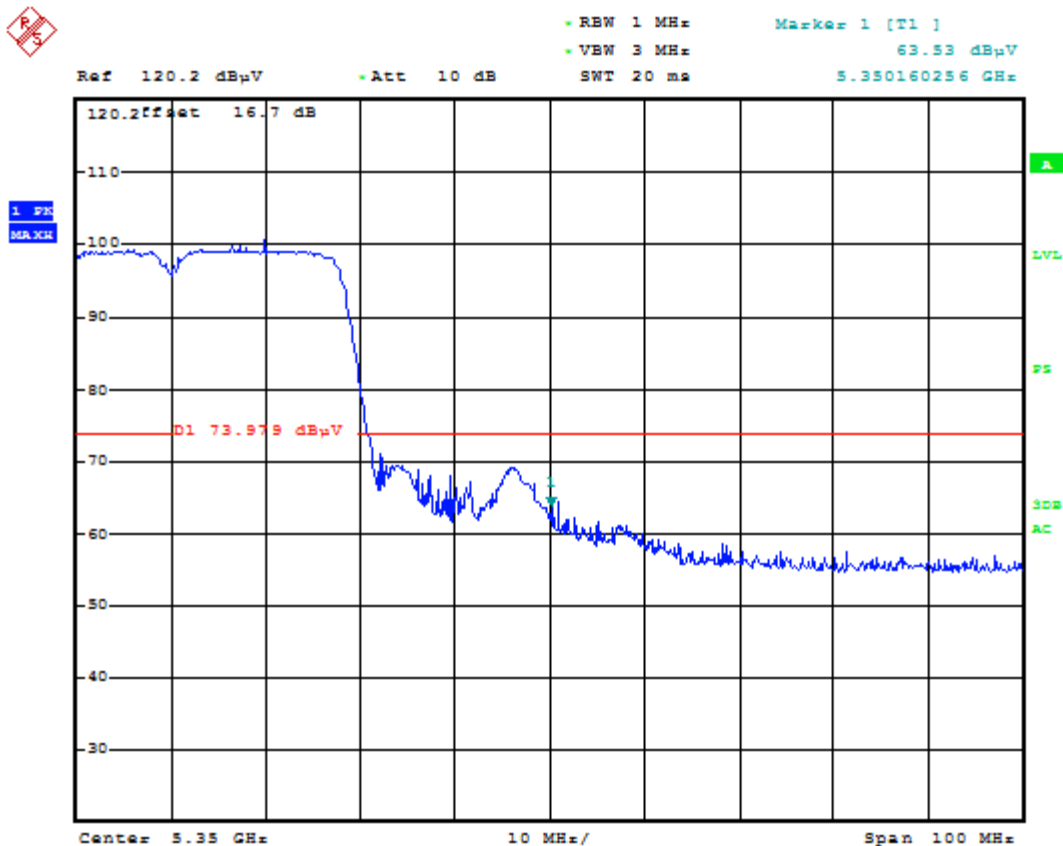
Date: 6.DEC.2013 21:58:07

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 120 of 177

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

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



Date: 6.DEC.2013 21:57:38

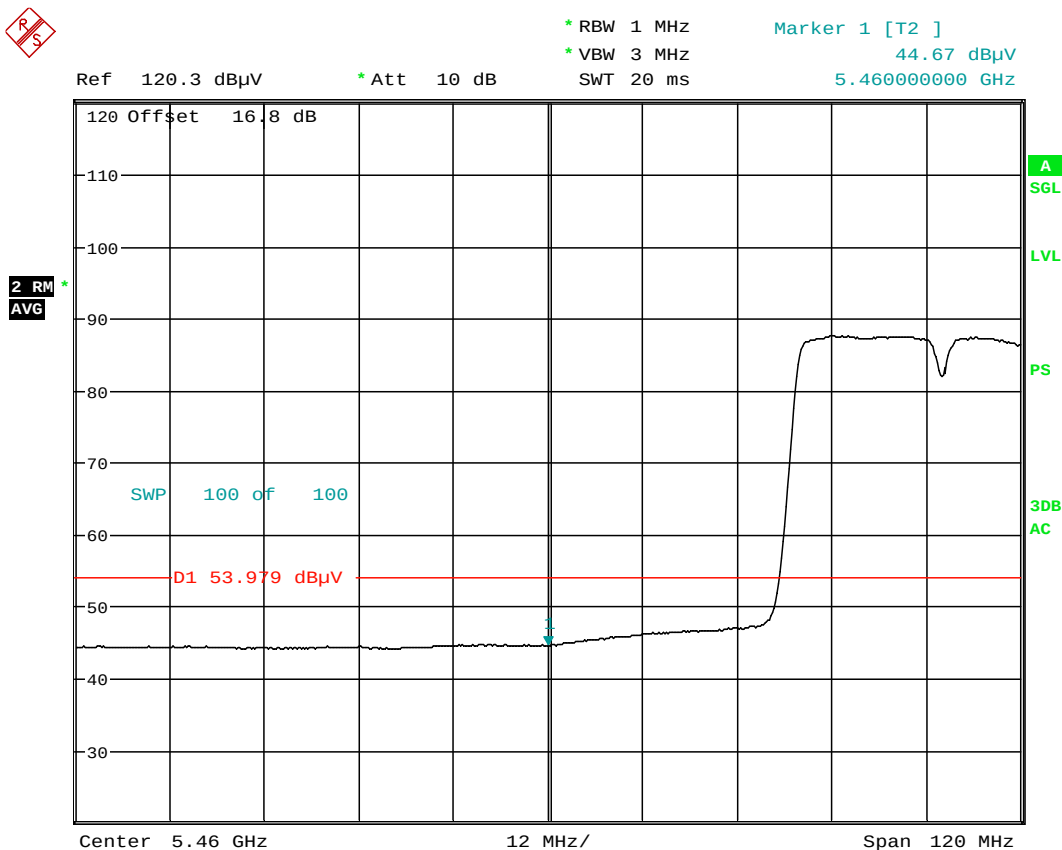
Plot 6-138. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 121 of 177

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



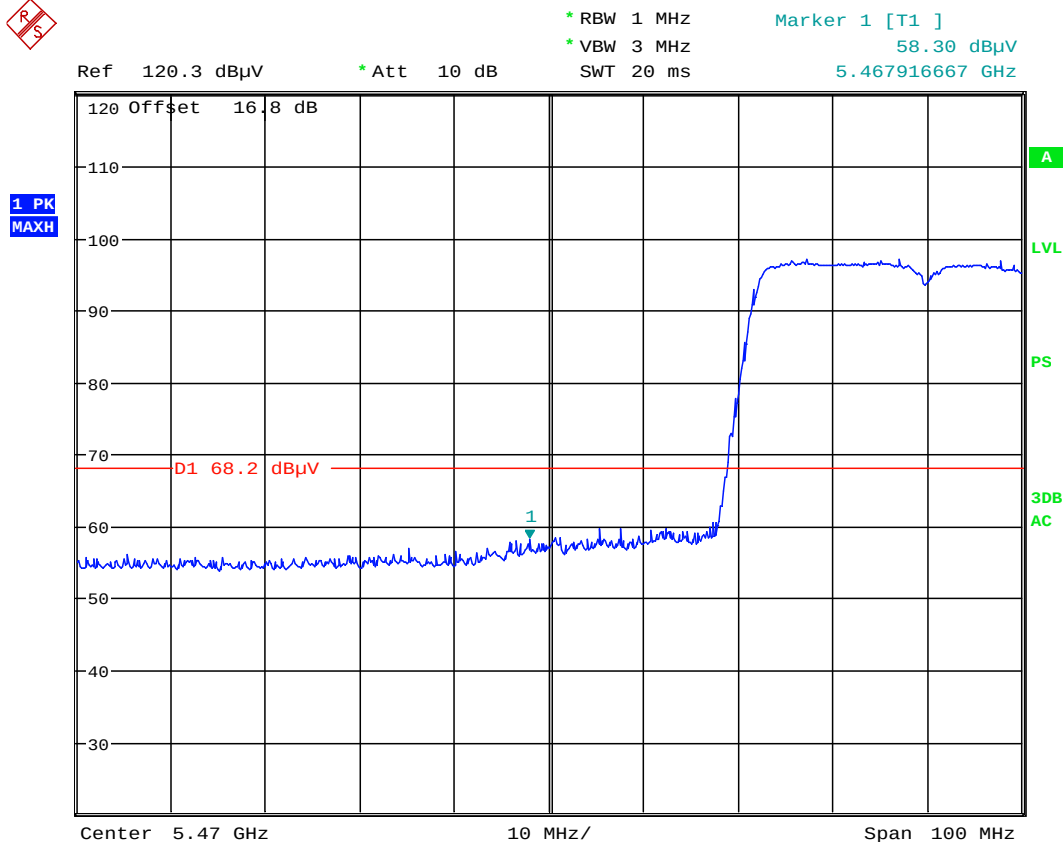
Date: 6.DEC.2013 22:42:22

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 122 of 177

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

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



Date: 6.DEC.2013 22:41:51

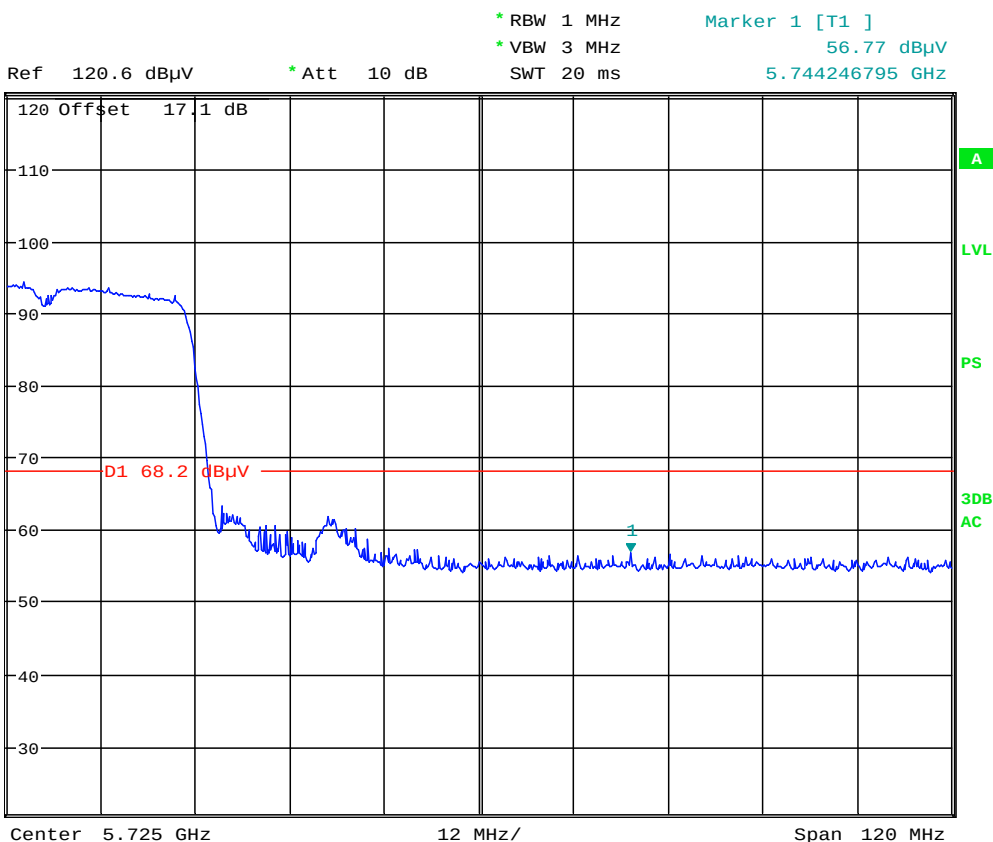
Plot 6-140. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 123 of 177

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



Date: 6.DEC.2013 22:43:36

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 124 of 177

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

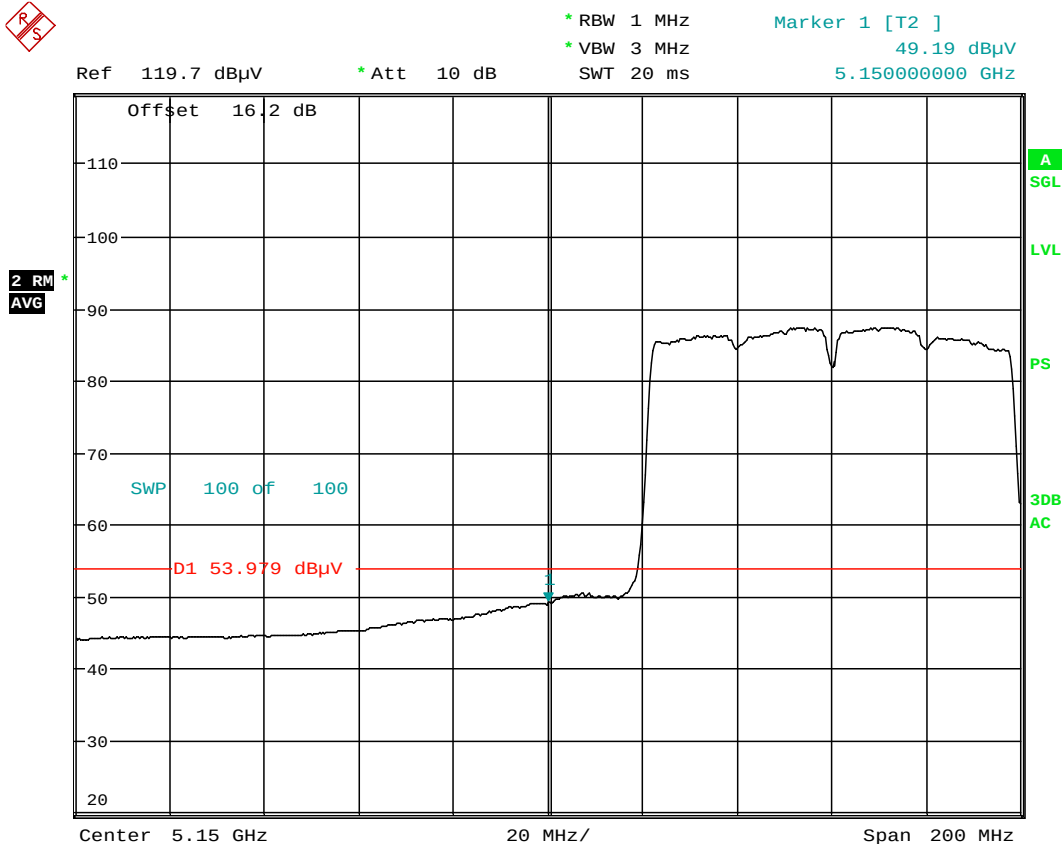
Worst Case Mode: 802.11n (80MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42



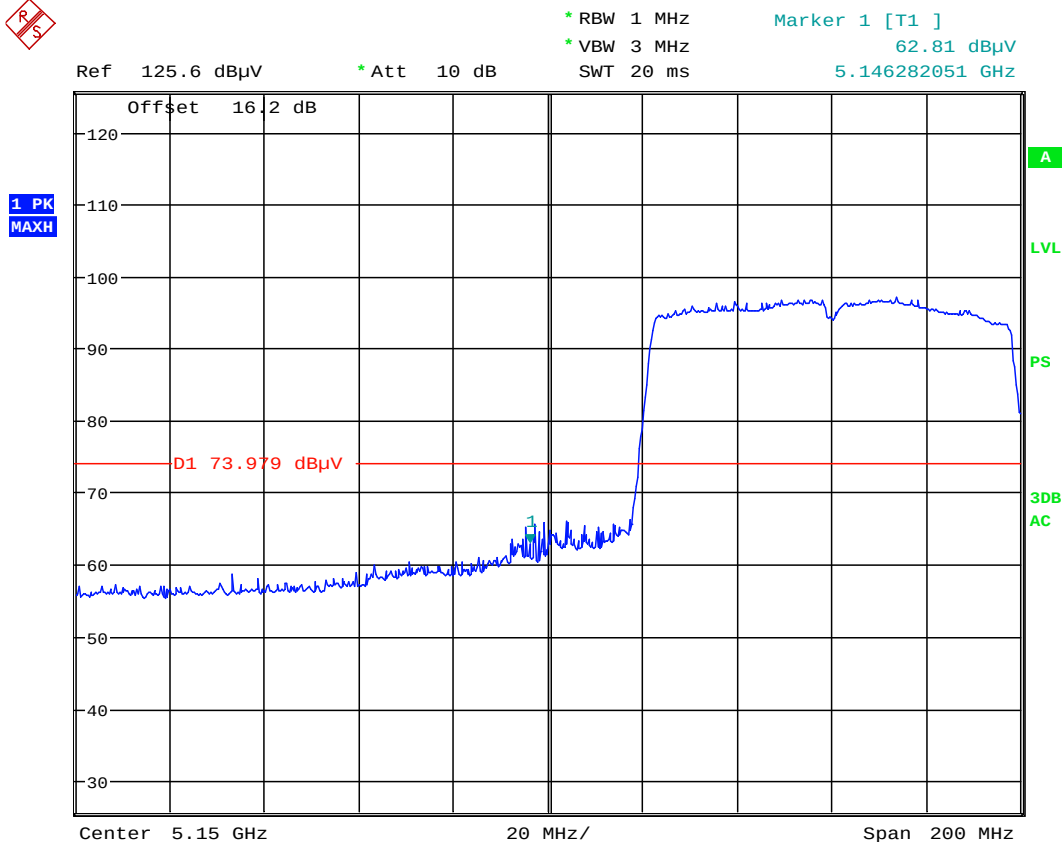
Date: 6.DEC.2013 21:22:28

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 125 of 177

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

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



Date: 6.DEC.2013 21:22:03

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 126 of 177

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

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

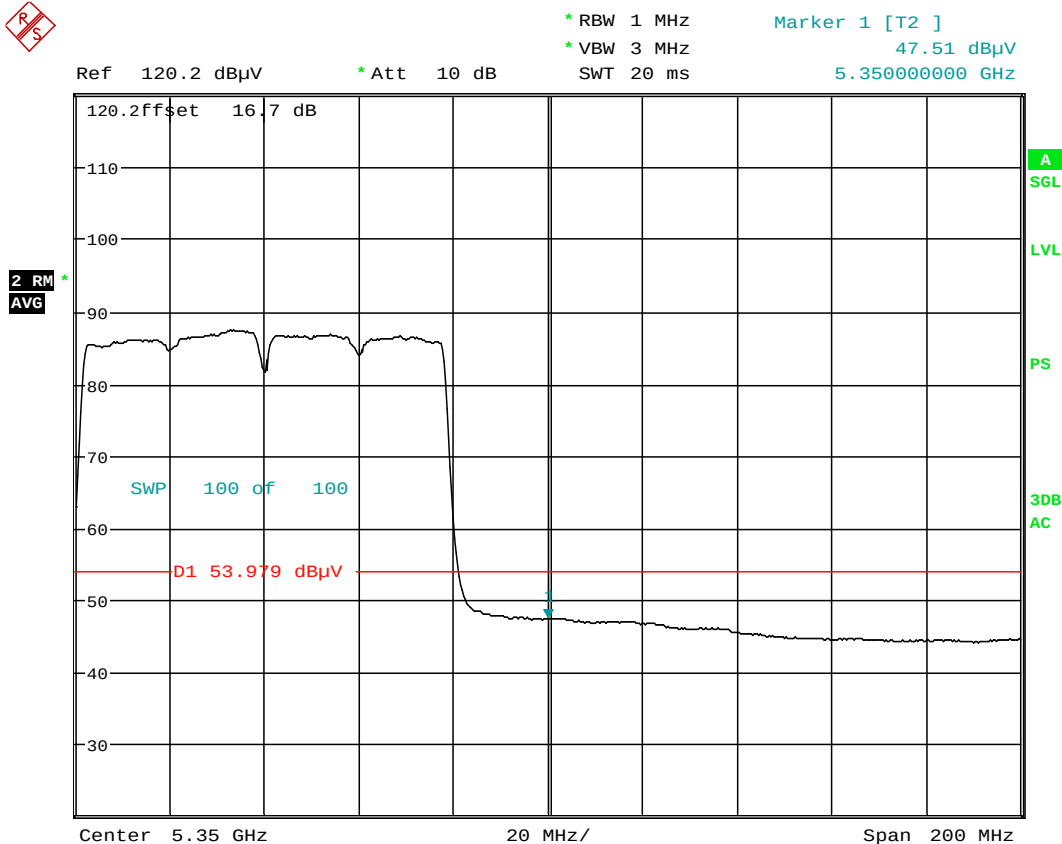
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58



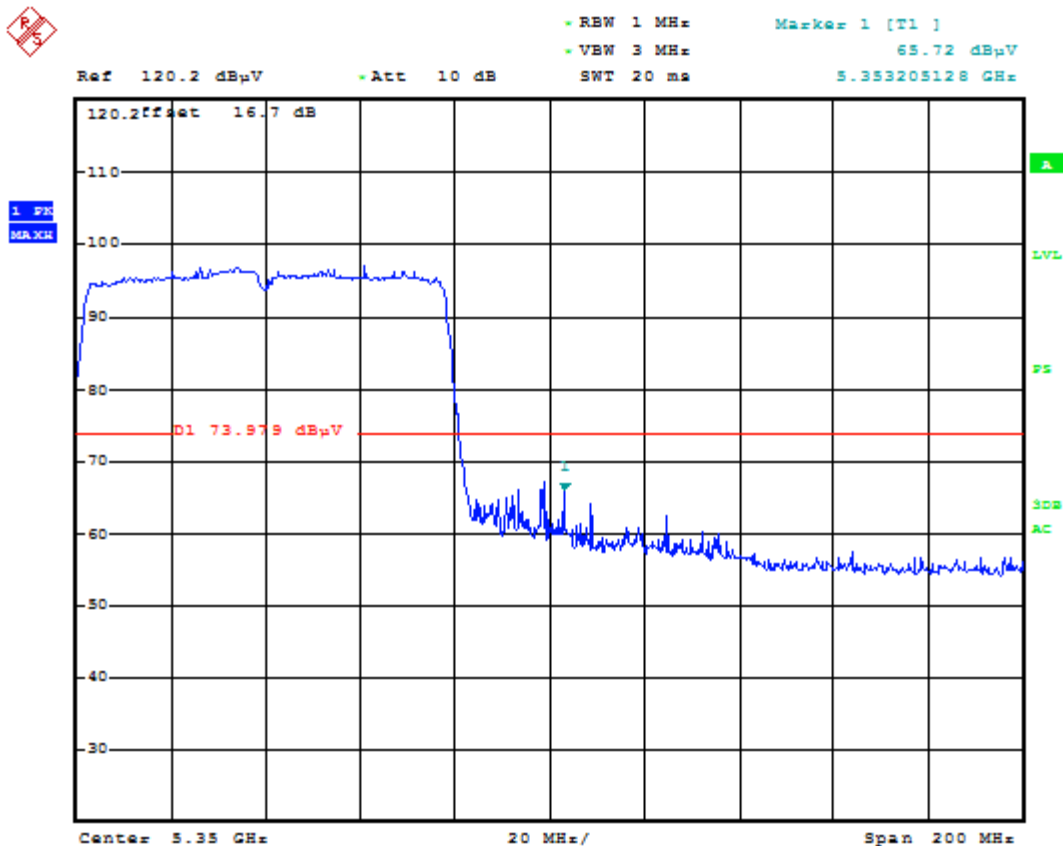
Date: 6.DEC.2013 21:54:49

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 127 of 177

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

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



Date: 6.DEC.2013 21:55:17

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 128 of 177

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

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

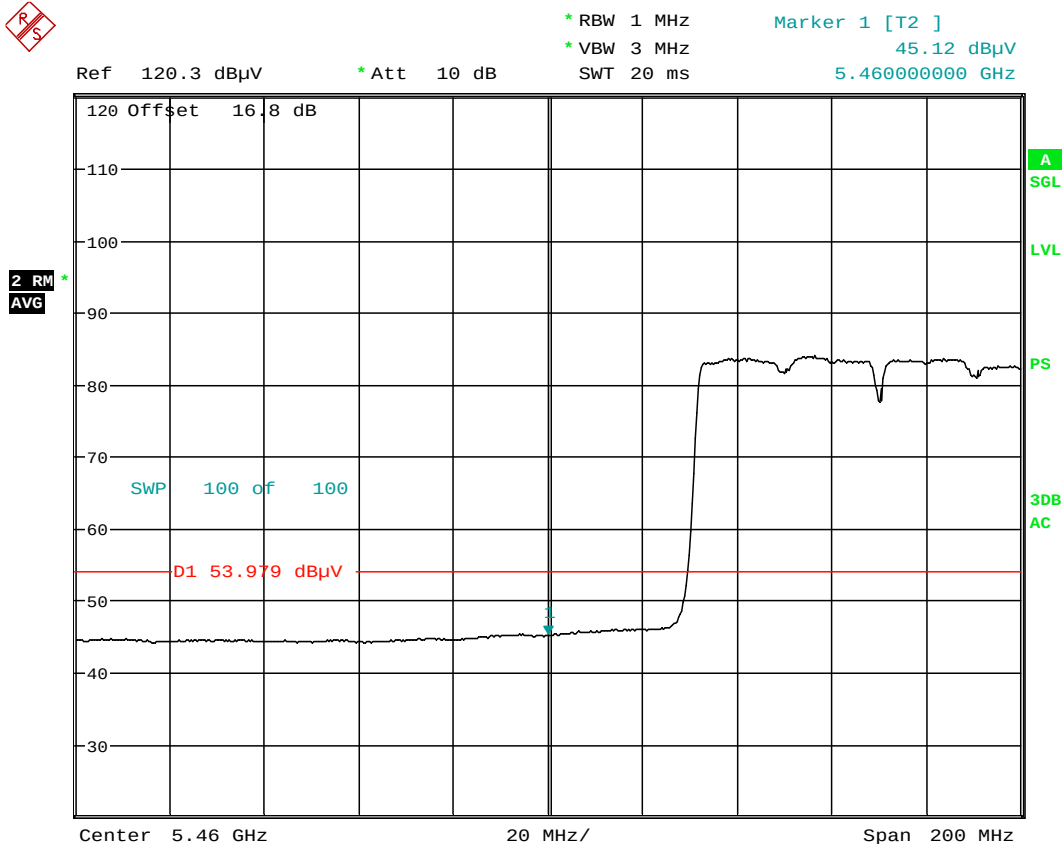
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5530MHz

Channel: 106

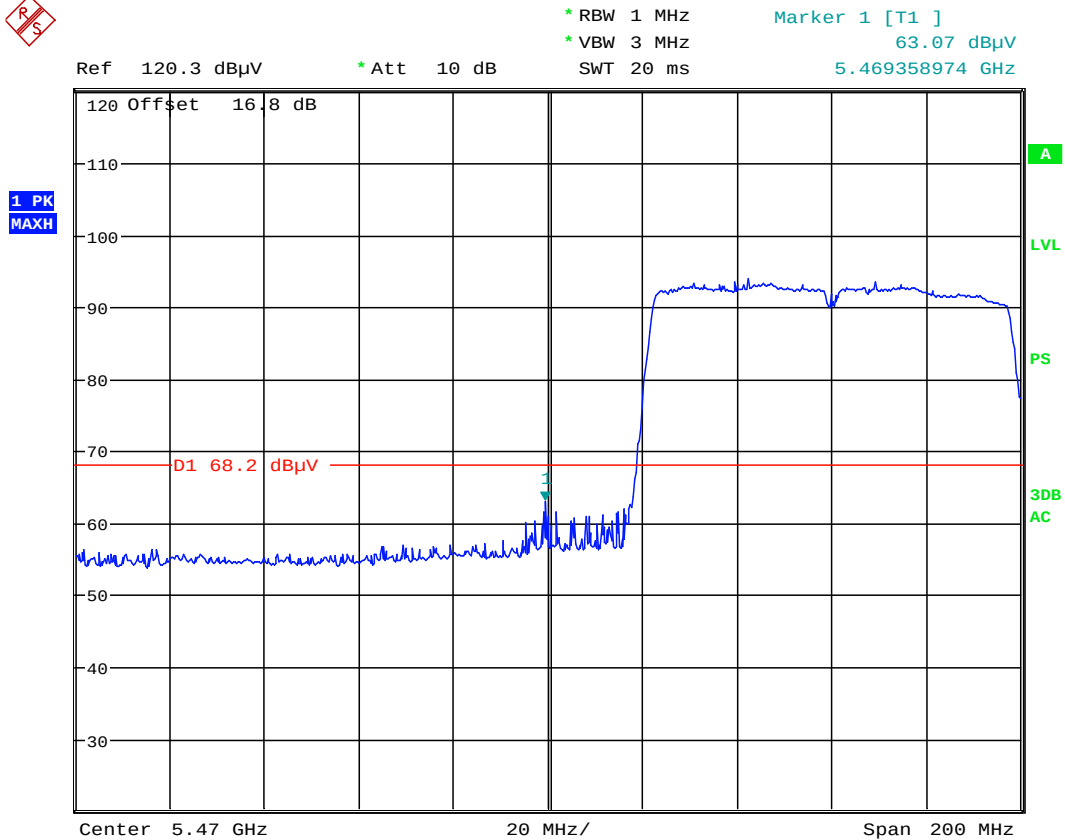


Date: 6.DEC.2013 22:38:29

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

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 129 of 177

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



Date: 6.DEC.2013 22:38:55

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

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 130 of 177

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

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

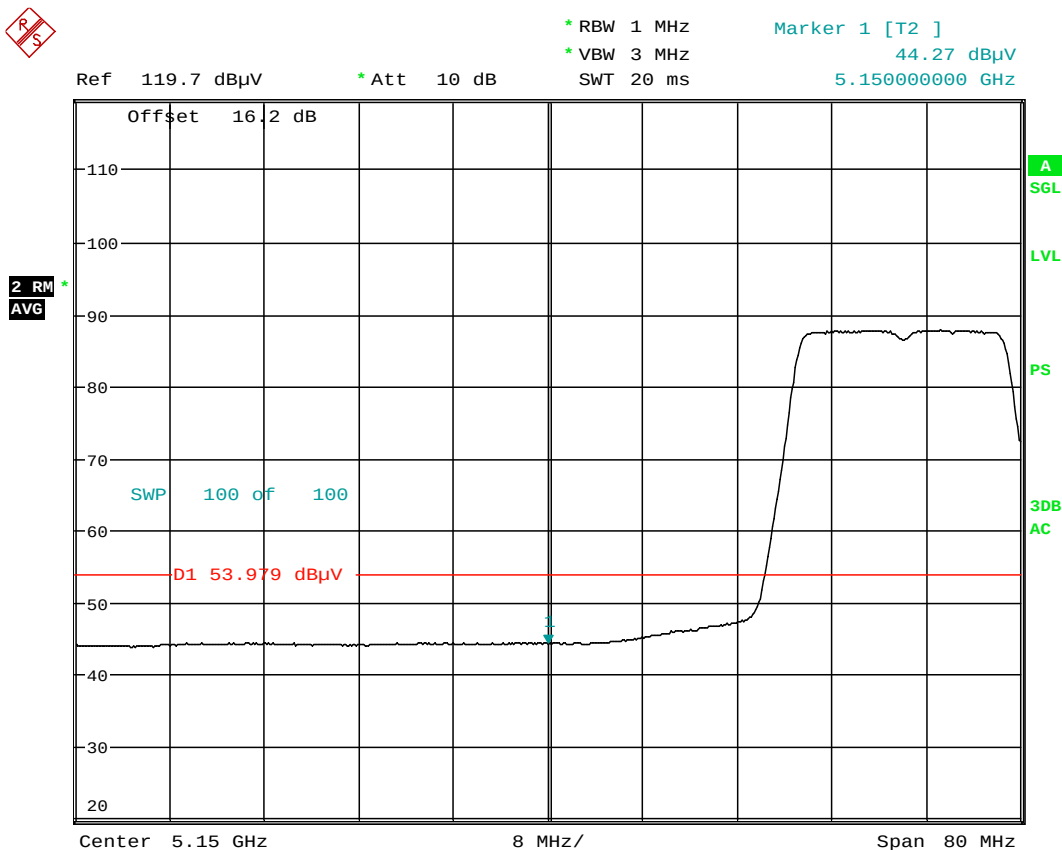
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36



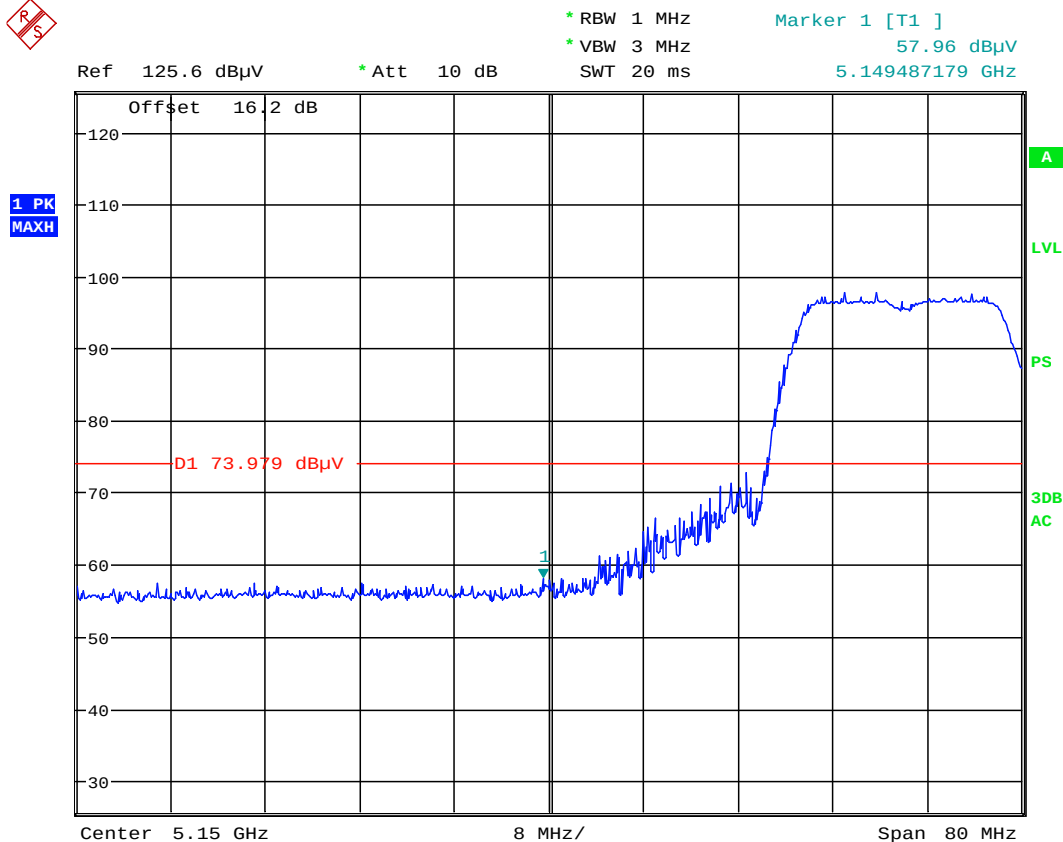
Date: 6.DEC.2013 21:32:57

Plot 6-148. Radiated Restricted Lower Band Edge Plot (Average - UNII Band 1)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 131 of 177

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

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



Date: 6.DEC.2013 21:32:00

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 132 of 177

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

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

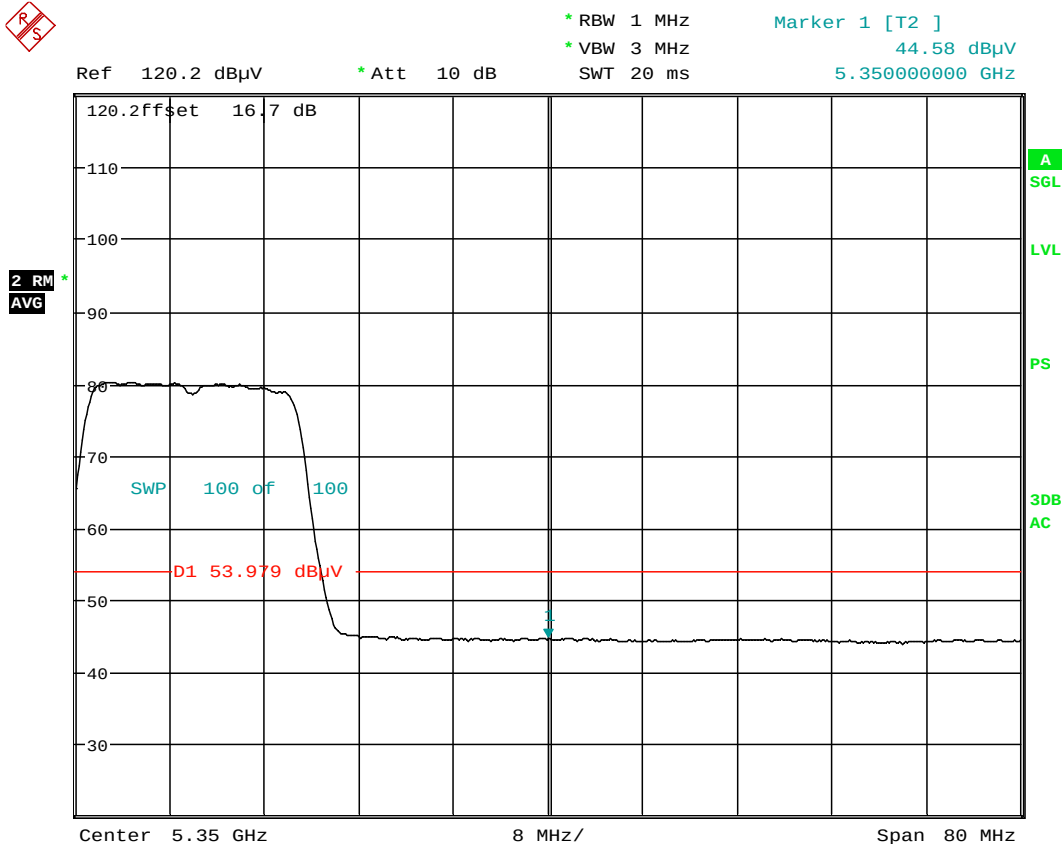
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64



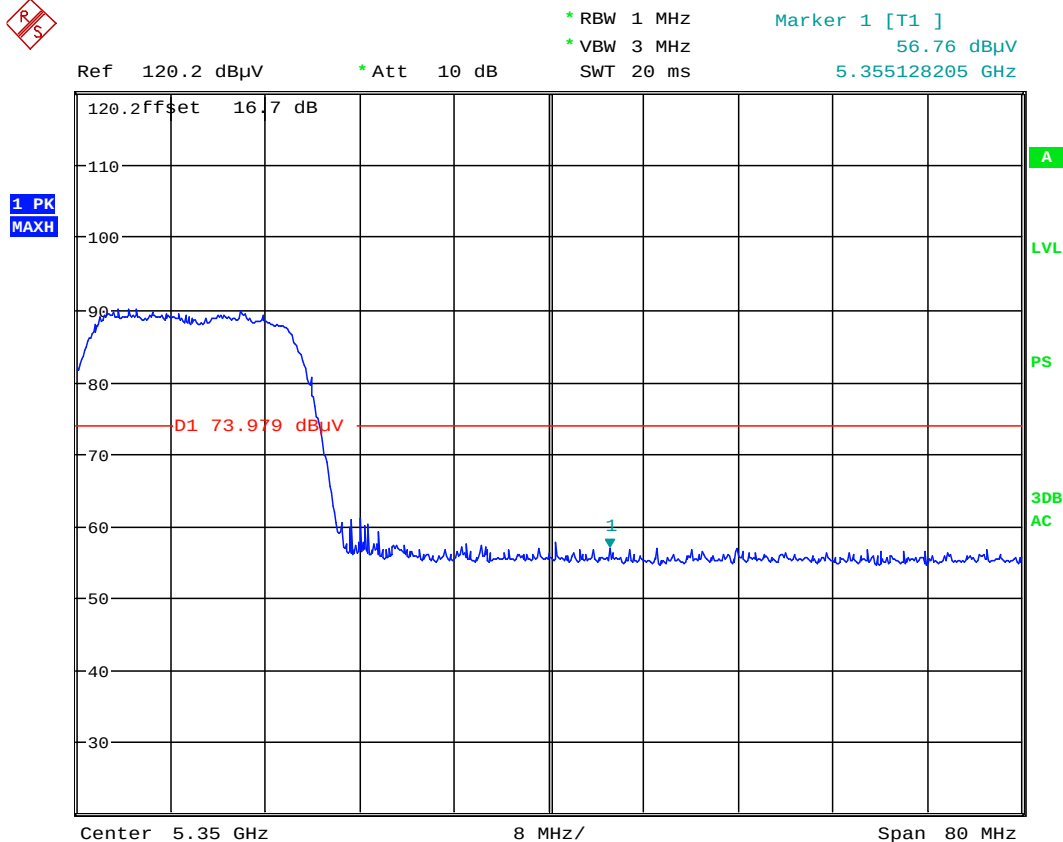
Date: 6.DEC.2013 22:04:01

Plot 6-150. Radiated Restricted Upper Band Edge Plot (Average - UNII Band 2A)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 133 of 177

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

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



Date: 6.DEC.2013 22:04:37

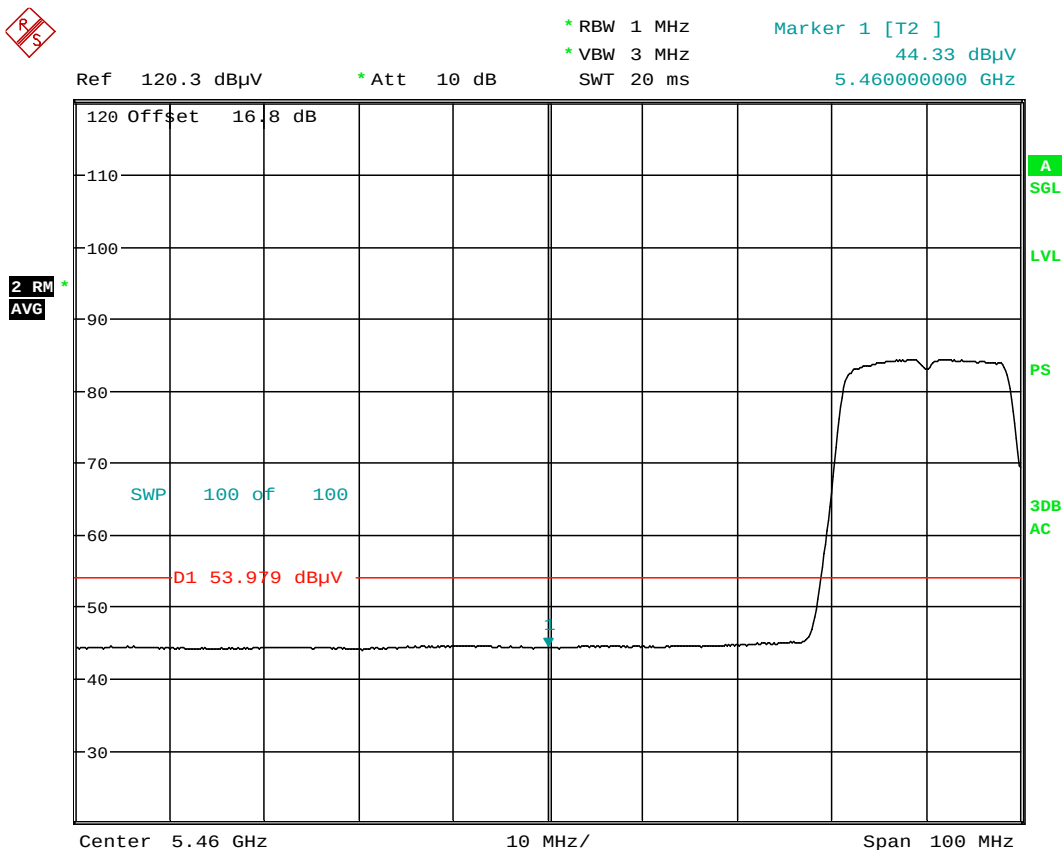
Plot 6-151. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 134 of 177

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



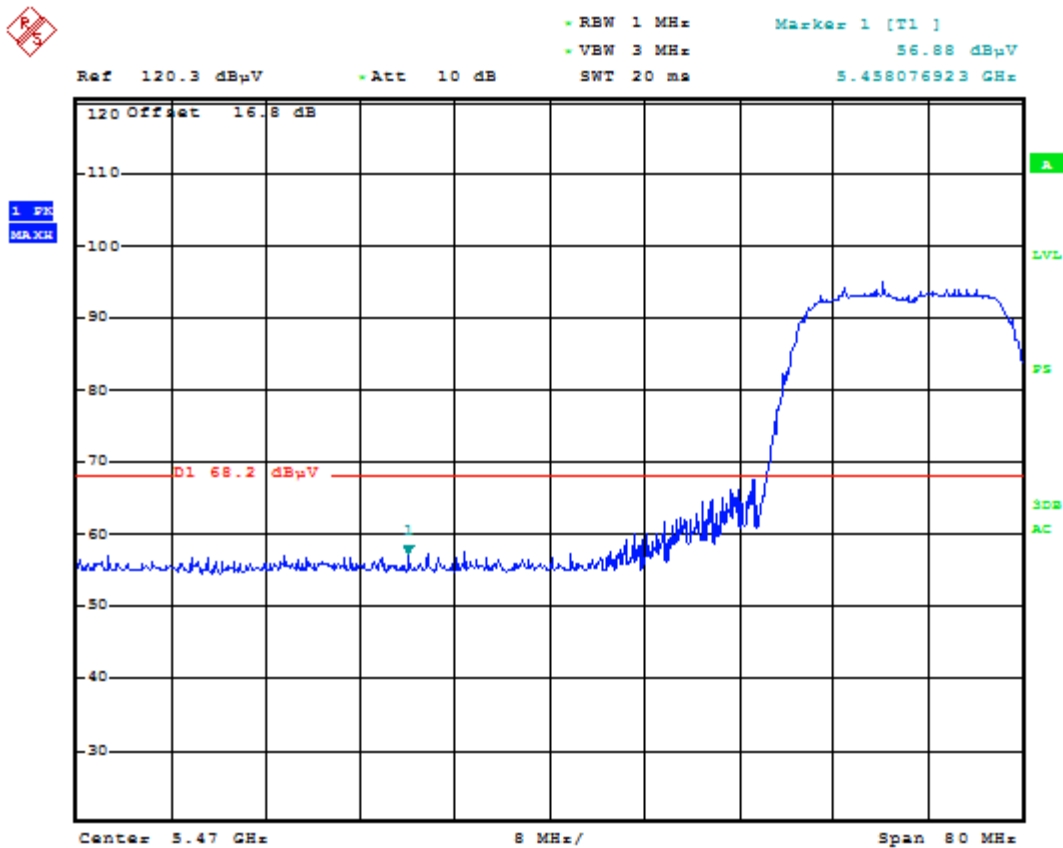
Date: 6.DEC.2013 22:56:04

Plot 6-152. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 135 of 177

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

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



Date: 6.DEC.2013 22:56:43

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 136 of 177

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

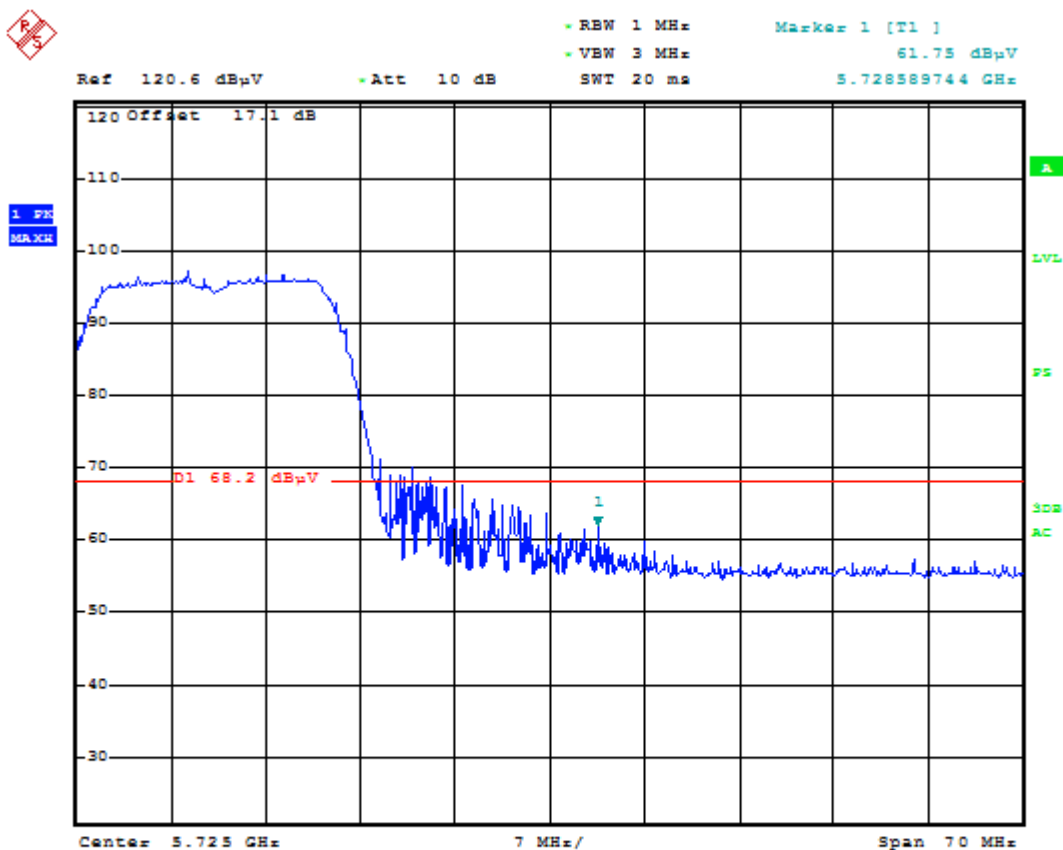
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5700MHz

Channel: 140



Date: 6.DEC.2013 22:57:58

Plot 6-154. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 137 of 177

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

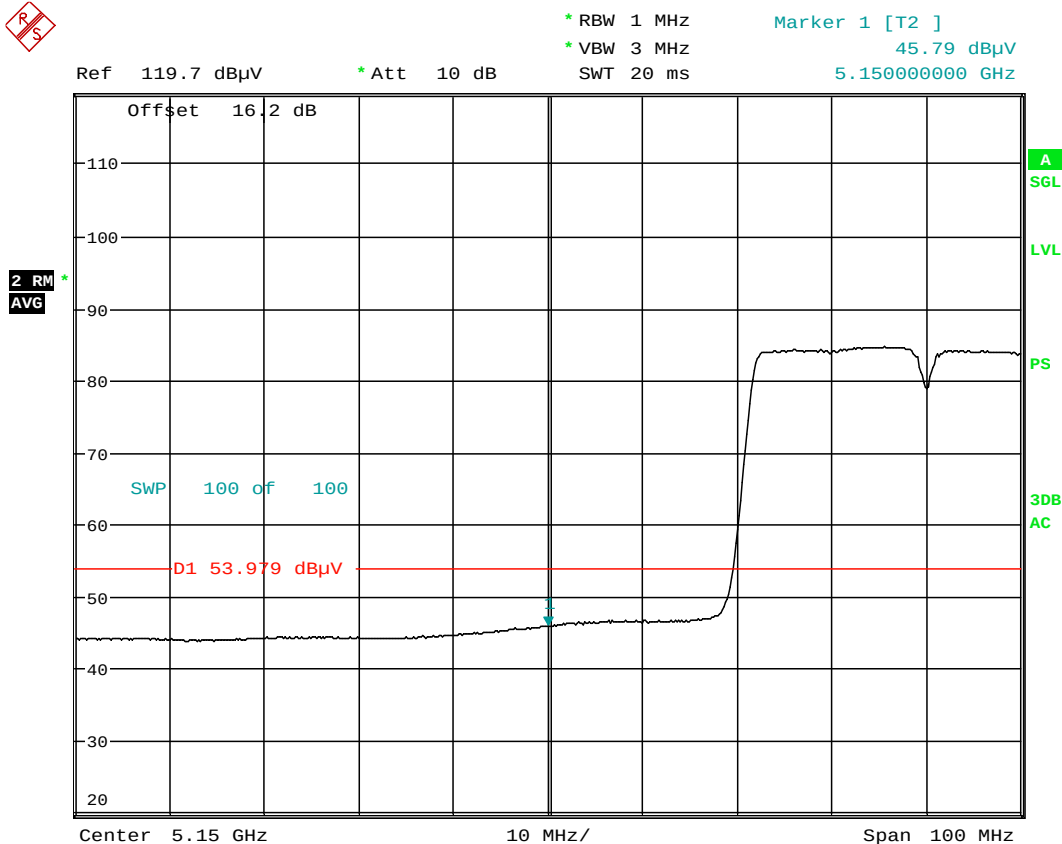
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38



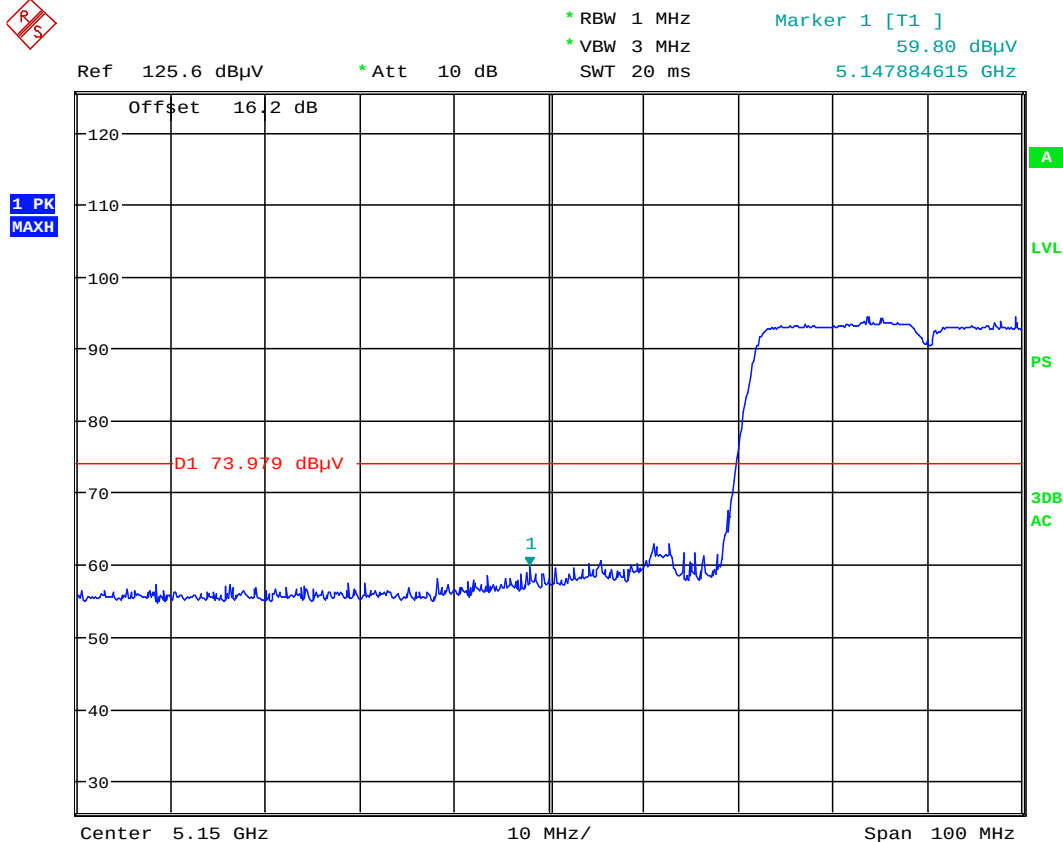
Date: 6.DEC.2013 21:30:26

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 138 of 177

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

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



Date: 6.DEC.2013 21:30:50

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

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 139 of 177

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

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

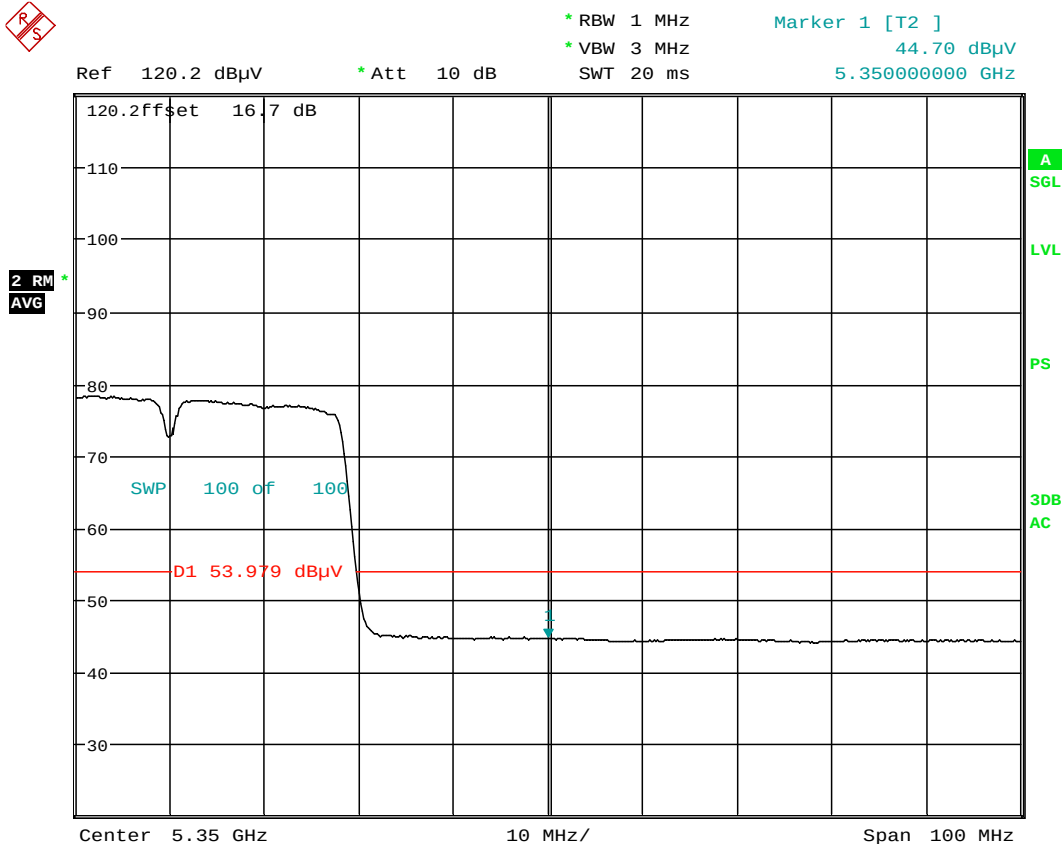
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62



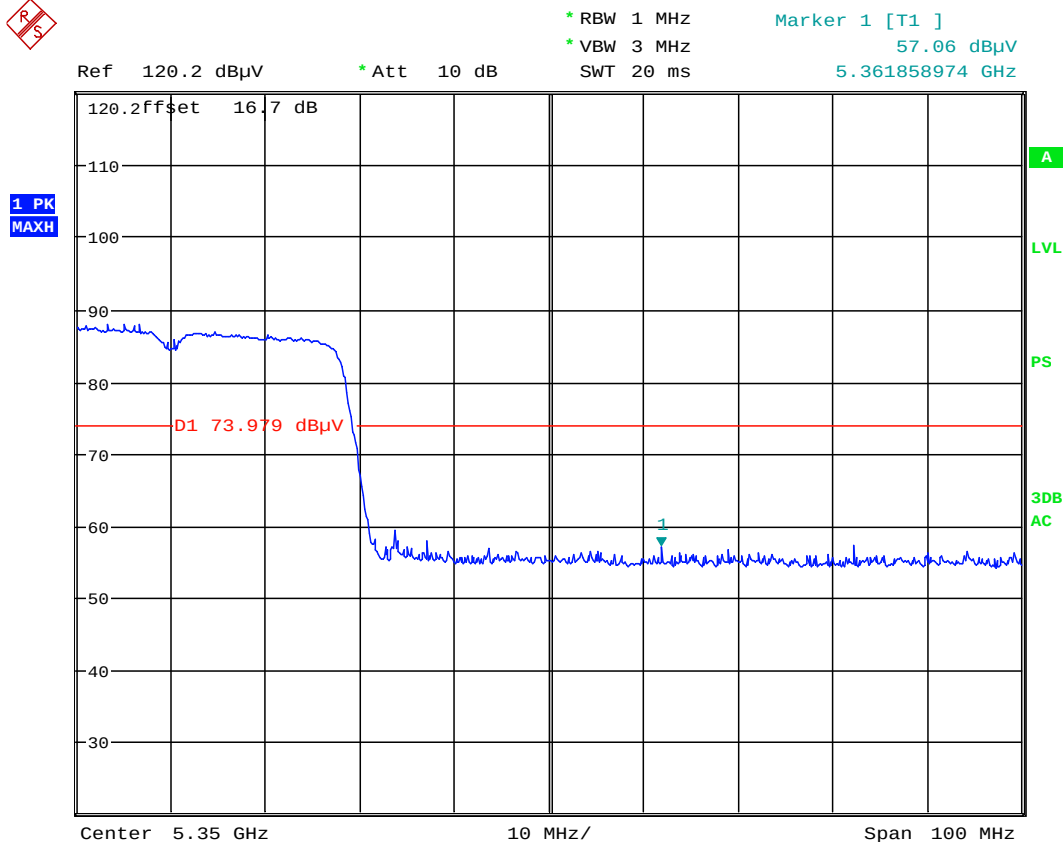
Date: 6.DEC.2013 22:06:16

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 140 of 177

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

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



Date: 6.DEC.2013 22:05:52

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

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 141 of 177

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

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

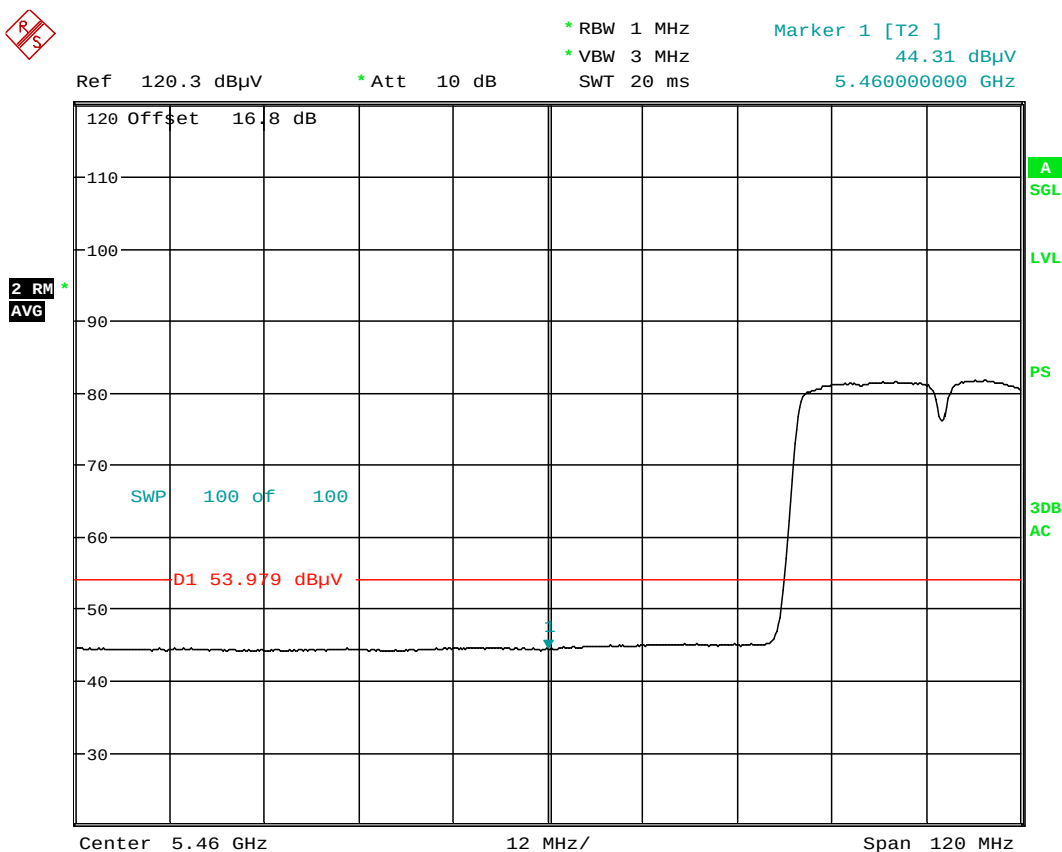
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS0

Distance of Measurements: 3 Meters

Operating Frequency: 5510MHz

Channel: 102



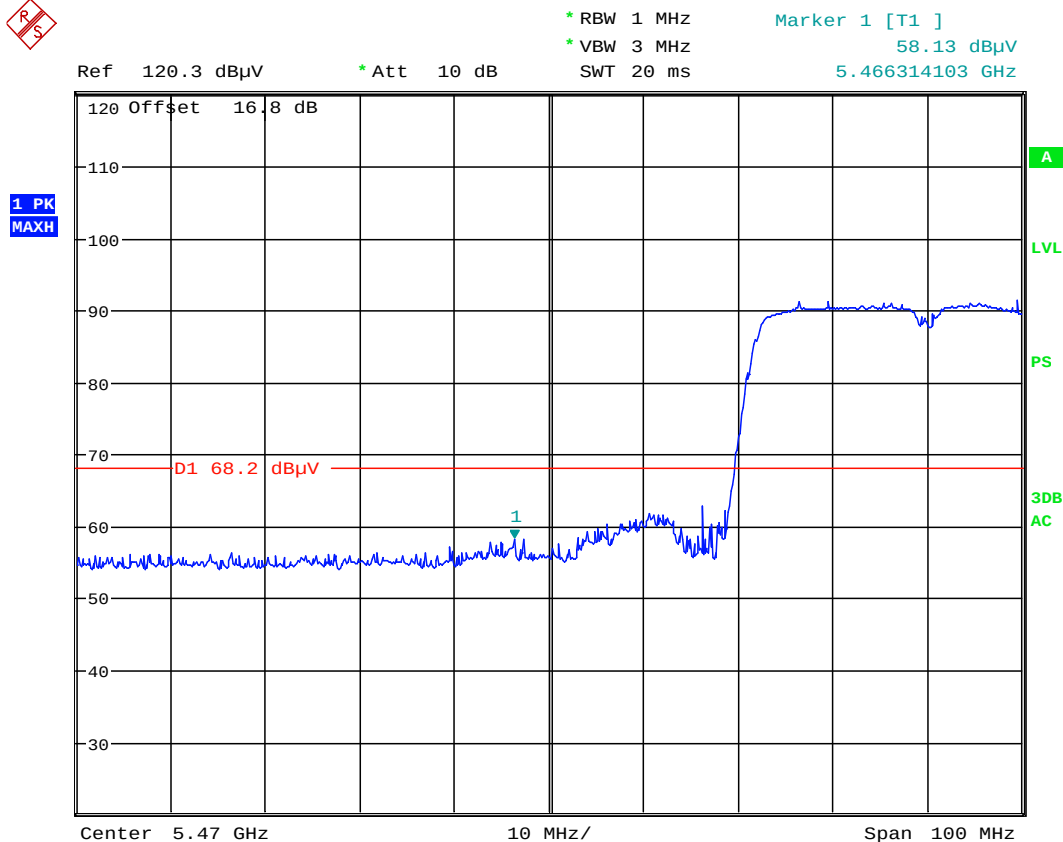
Date: 6.DEC.2013 22:55:00

Plot 6-159. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 2C)

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 142 of 177

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

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



Date: 6.DEC.2013 22:54:35

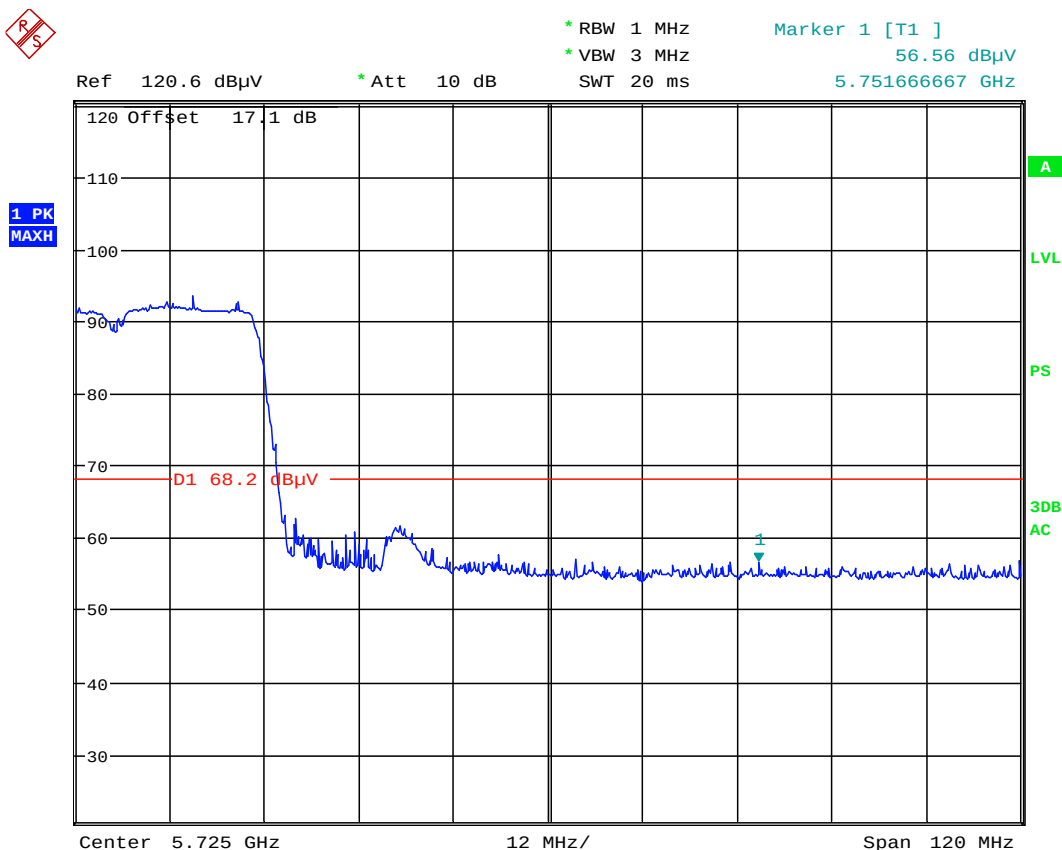
Plot 6-160. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 143 of 177

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



Date: 6.DEC.2013 22:59:00

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 144 of 177

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

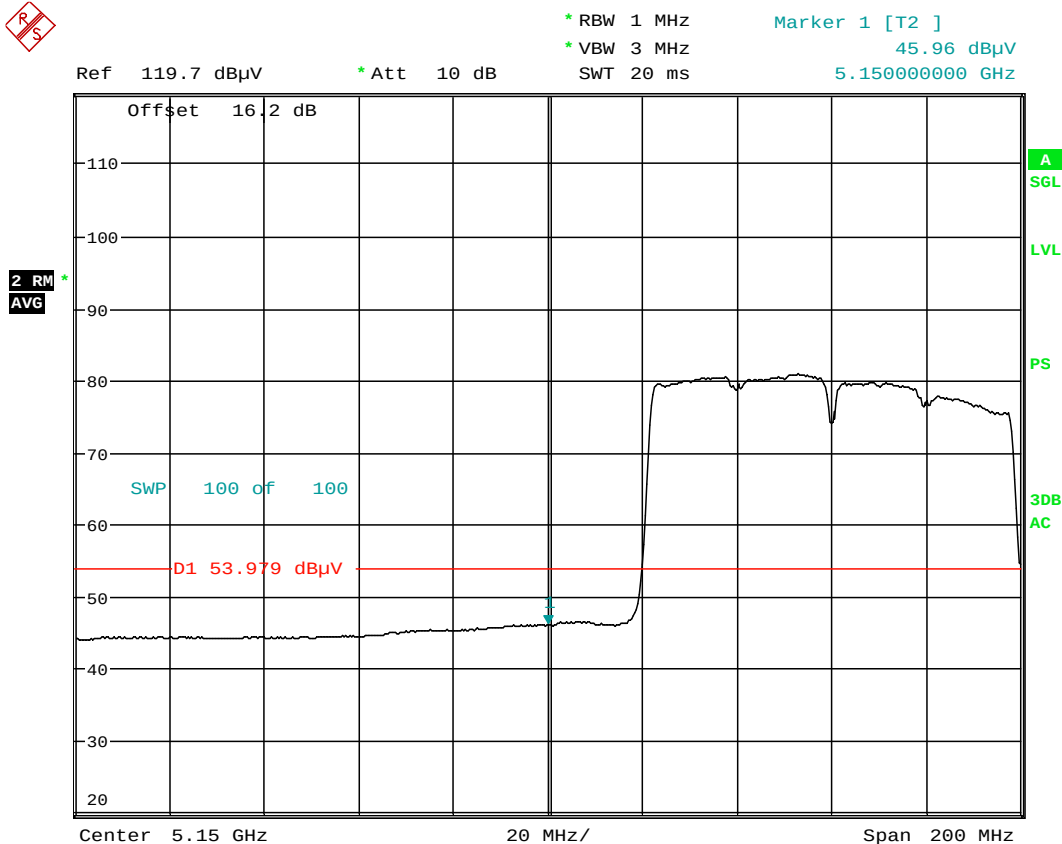
Worst Case Mode: 802.11n (80MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42



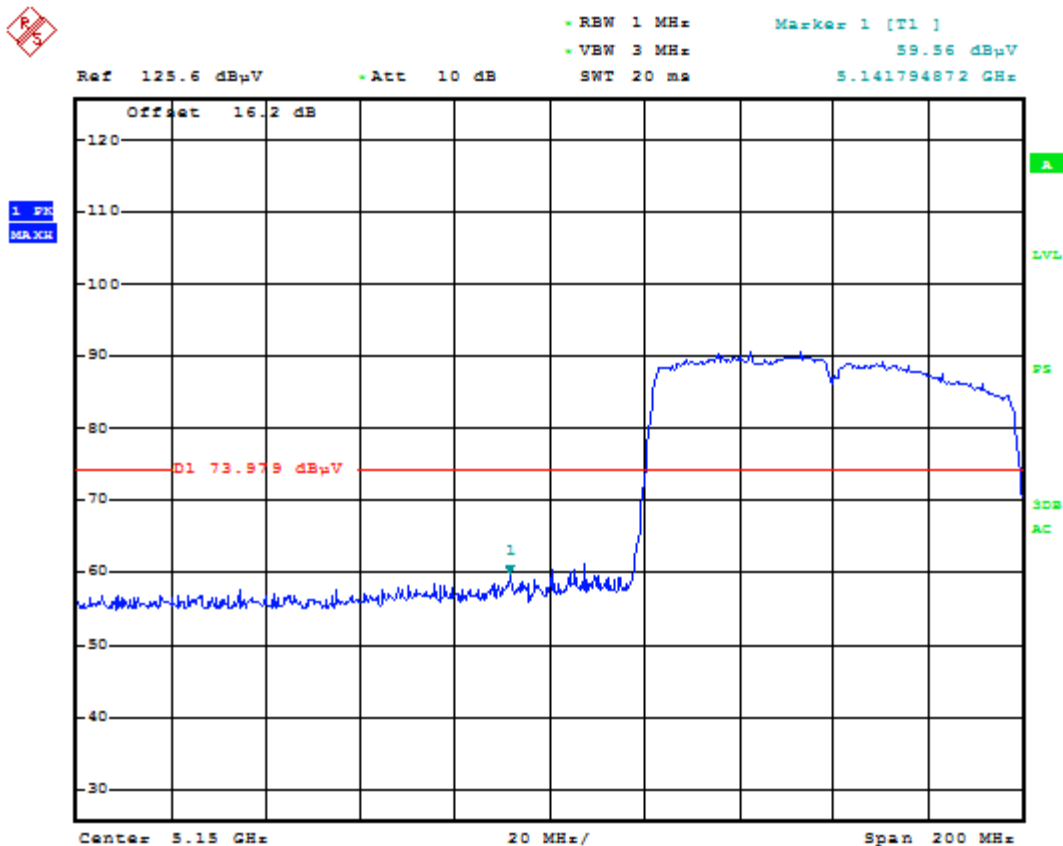
Date: 6.DEC.2013 21:27:33

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 145 of 177

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

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



Date: 6.DEC.2013 21:28:01

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 146 of 177

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

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

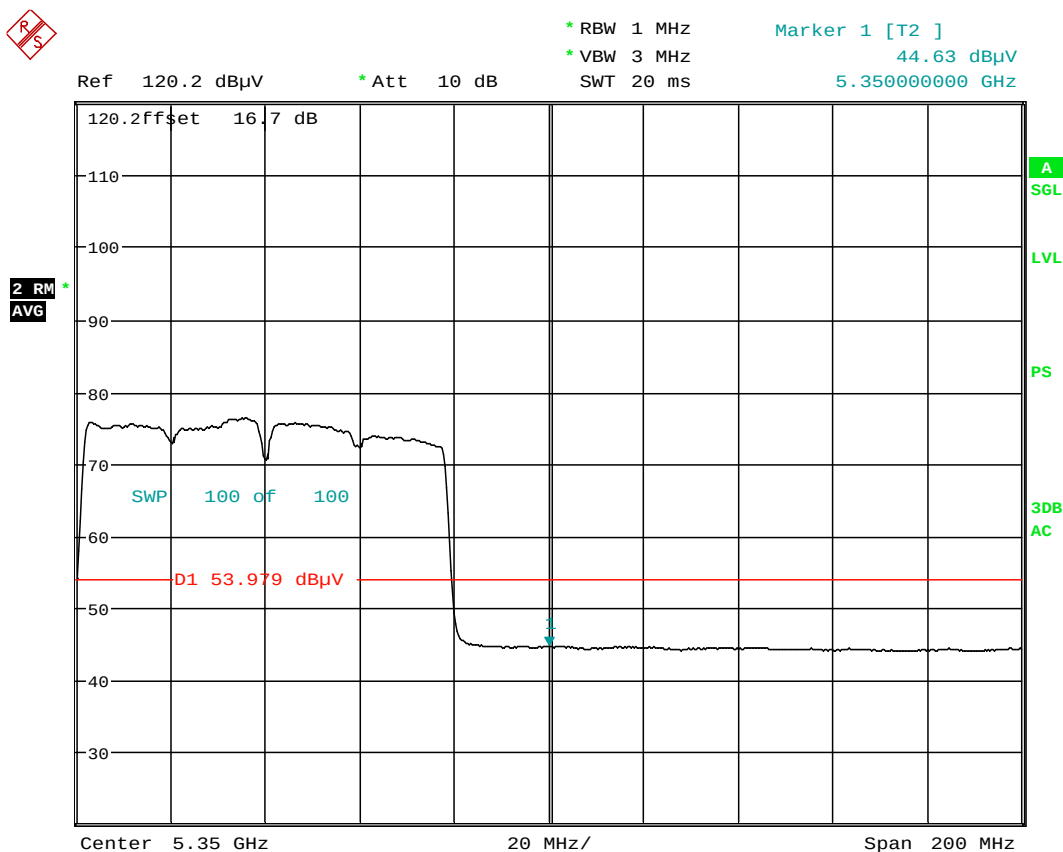
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58



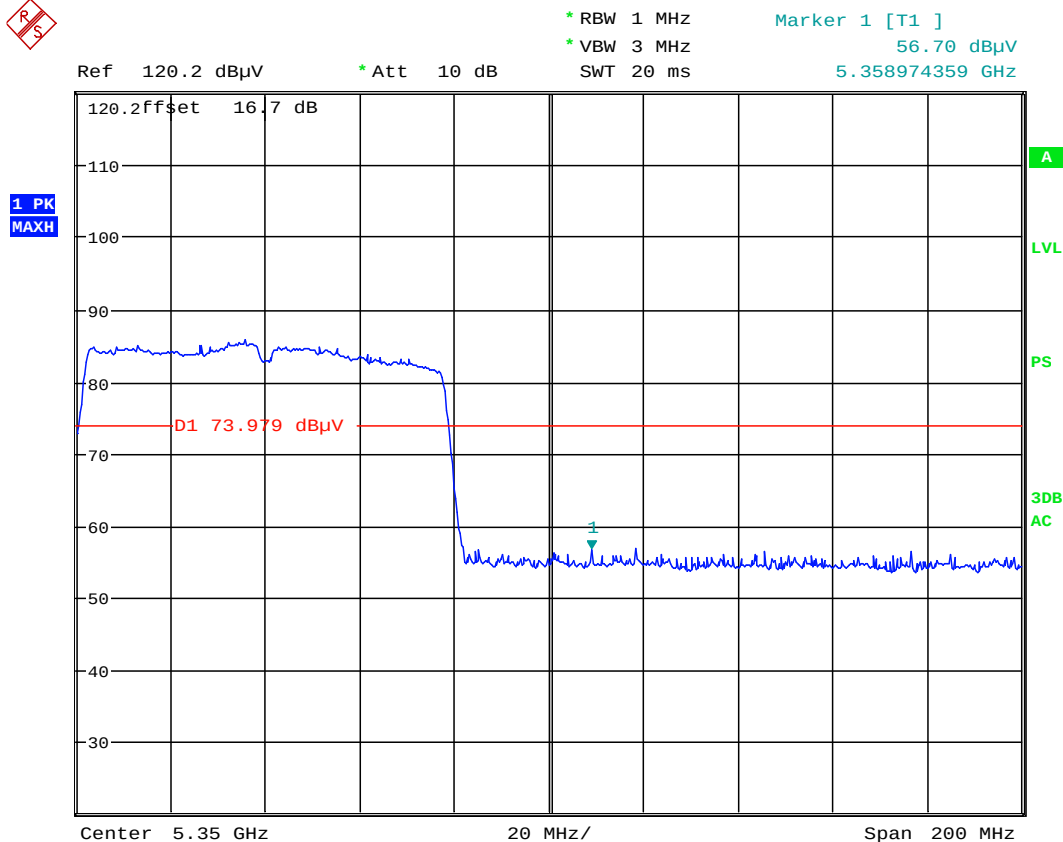
Date: 6.DEC.2013 22:07:54

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 147 of 177

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

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



Date: 6.DEC.2013 22:08:16

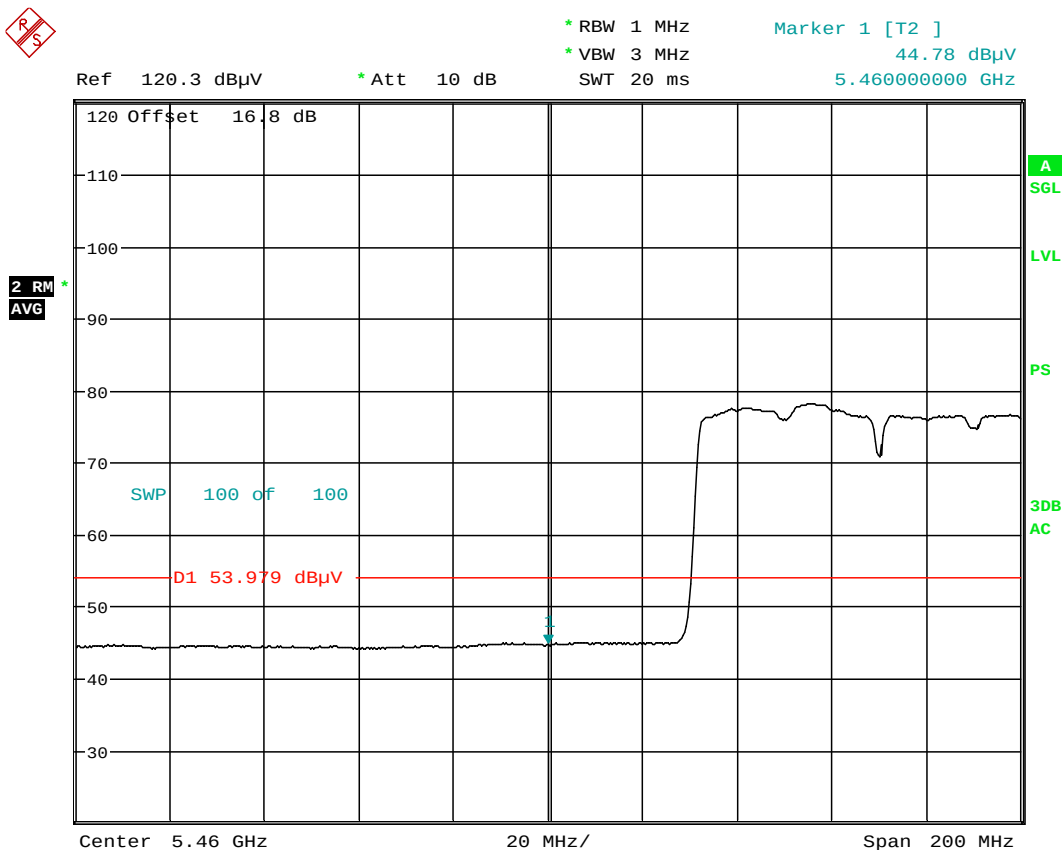
Plot 6-165. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 148 of 177

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: MCS8
Distance of Measurements: 3 Meters
Operating Frequency: 5530MHz
Channel: 106



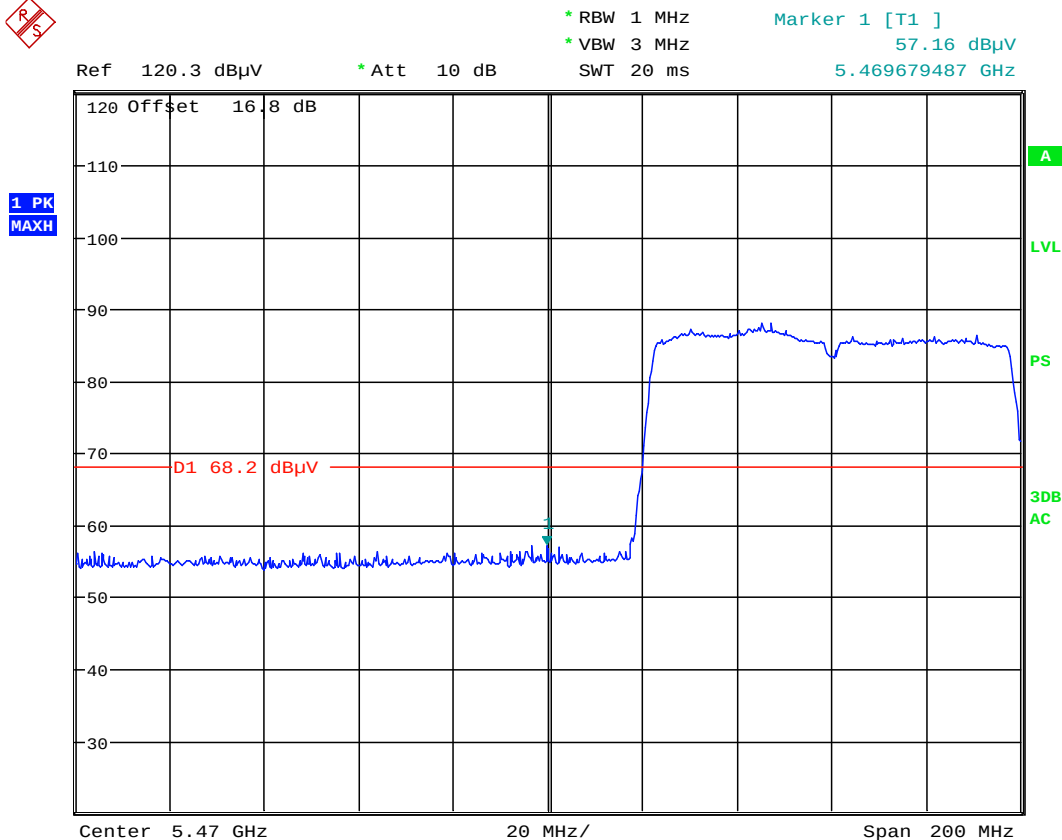
Date: 6.DEC.2013 22:52:57

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 149 of 177

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

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



Date: 6.DEC.2013 22:53:18

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

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 150 of 177

6.10 MIMO Radiated Band Edge Measurements (20MHz BW)

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

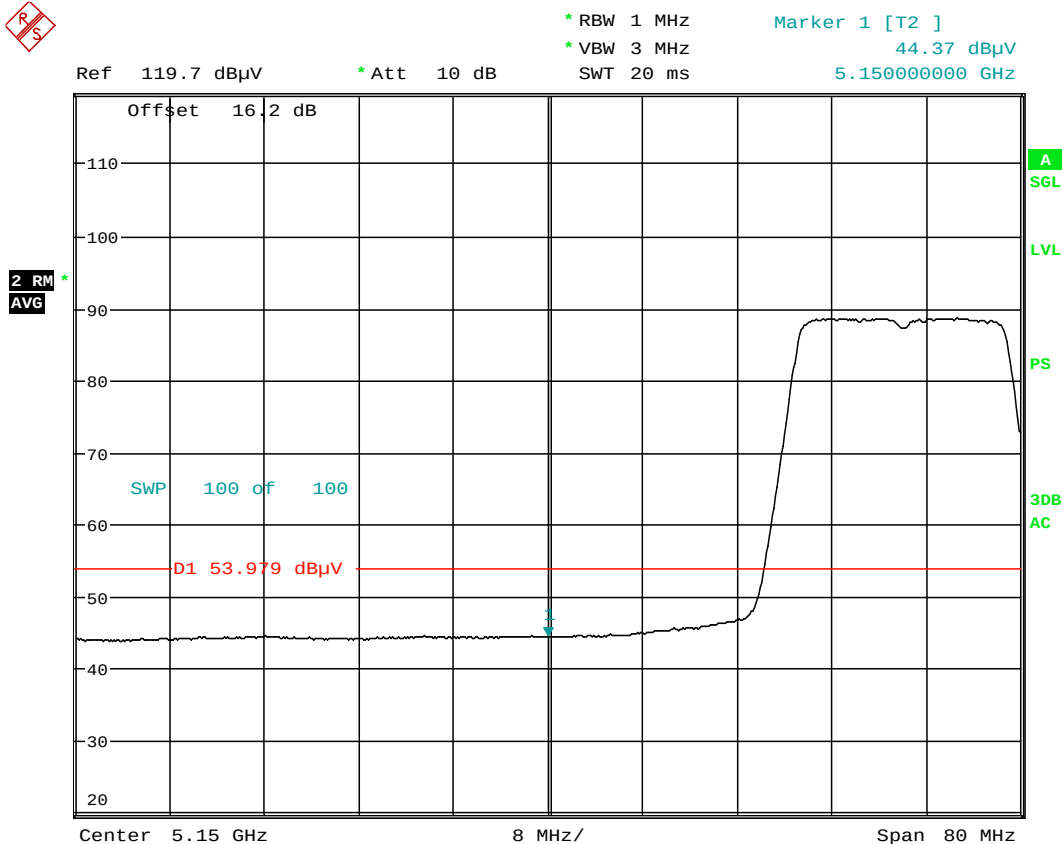
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5180MHz

Channel: 36



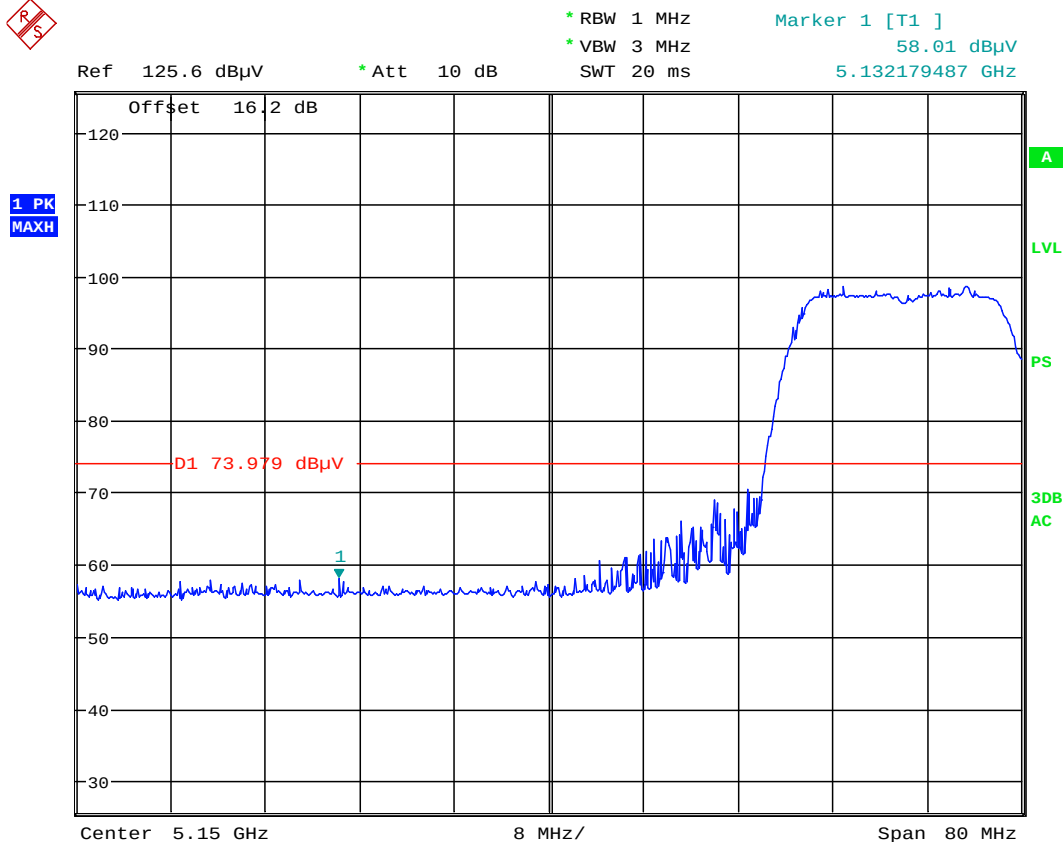
Date: 6.DEC.2013 21:35:48

Plot 6-168. Radiated Restricted Lower Band Edge Plot (Average – UNII Band 1)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 151 of 177

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

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



Date: 6.DEC.2013 21:36:14

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

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 152 of 177

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

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

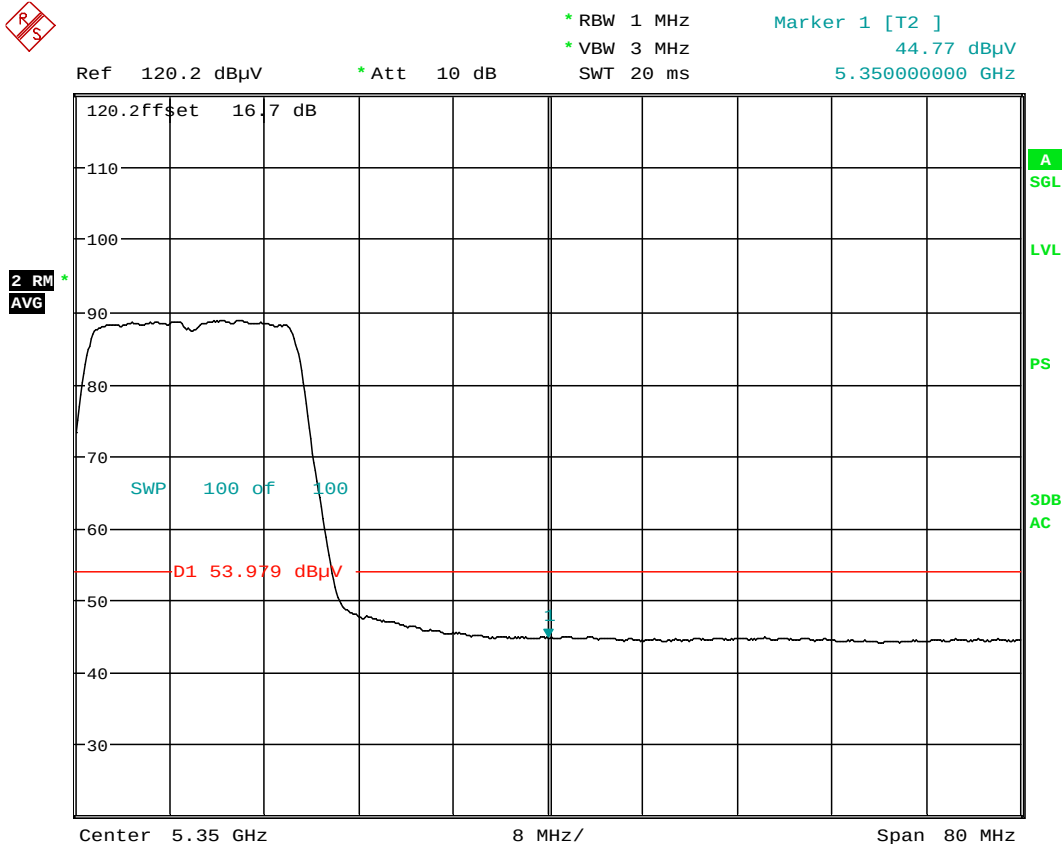
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5320MHz

Channel: 64



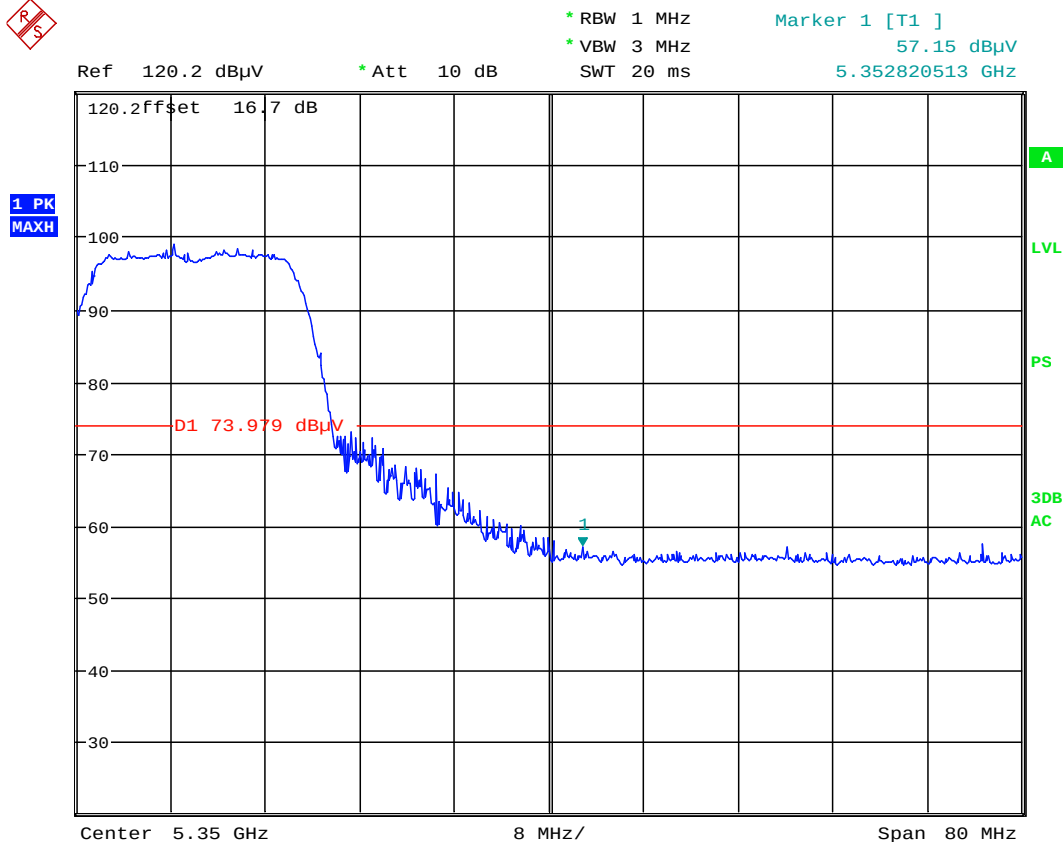
Date: 6.DEC.2013 22:14:57

Plot 6-170. Radiated Restricted Upper Band Edge Plot (Average – UNII Band 2A)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 153 of 177

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

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



Date: 6.DEC.2013 22:14:41

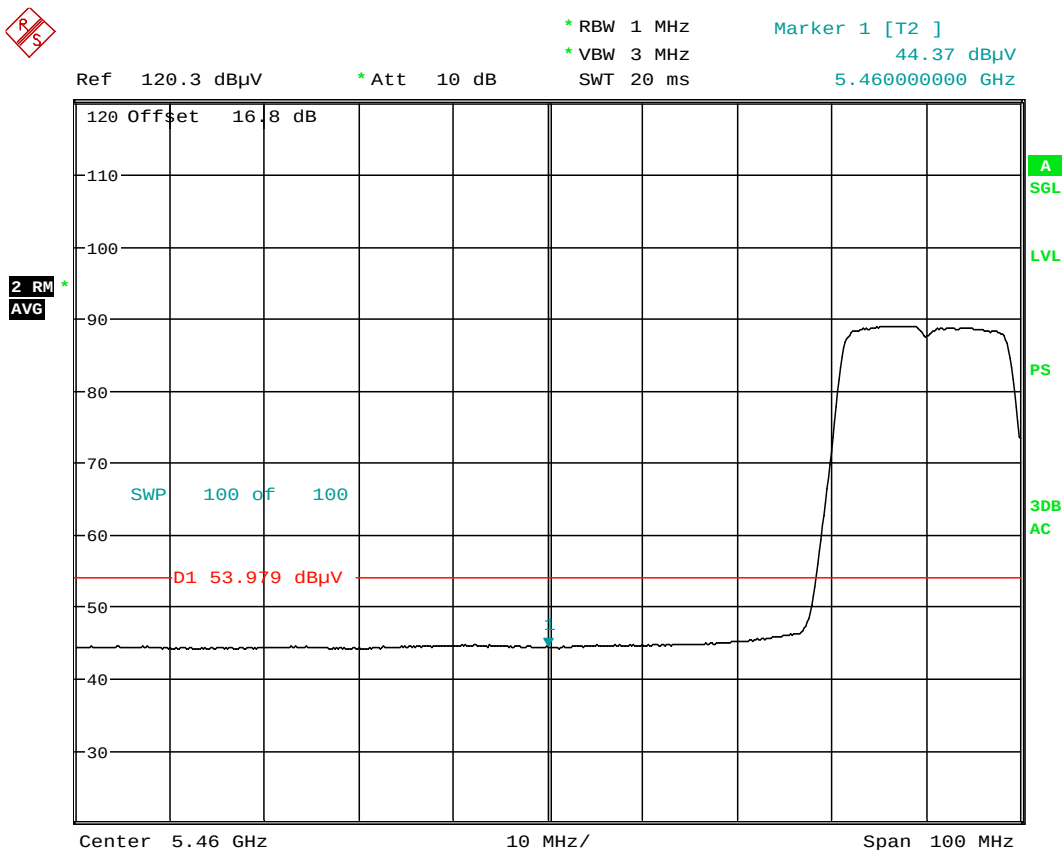
Plot 6-171. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 154 of 177

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: MCS8
Distance of Measurements: 3 Meters
Operating Frequency: 5500MHz
Channel: 100



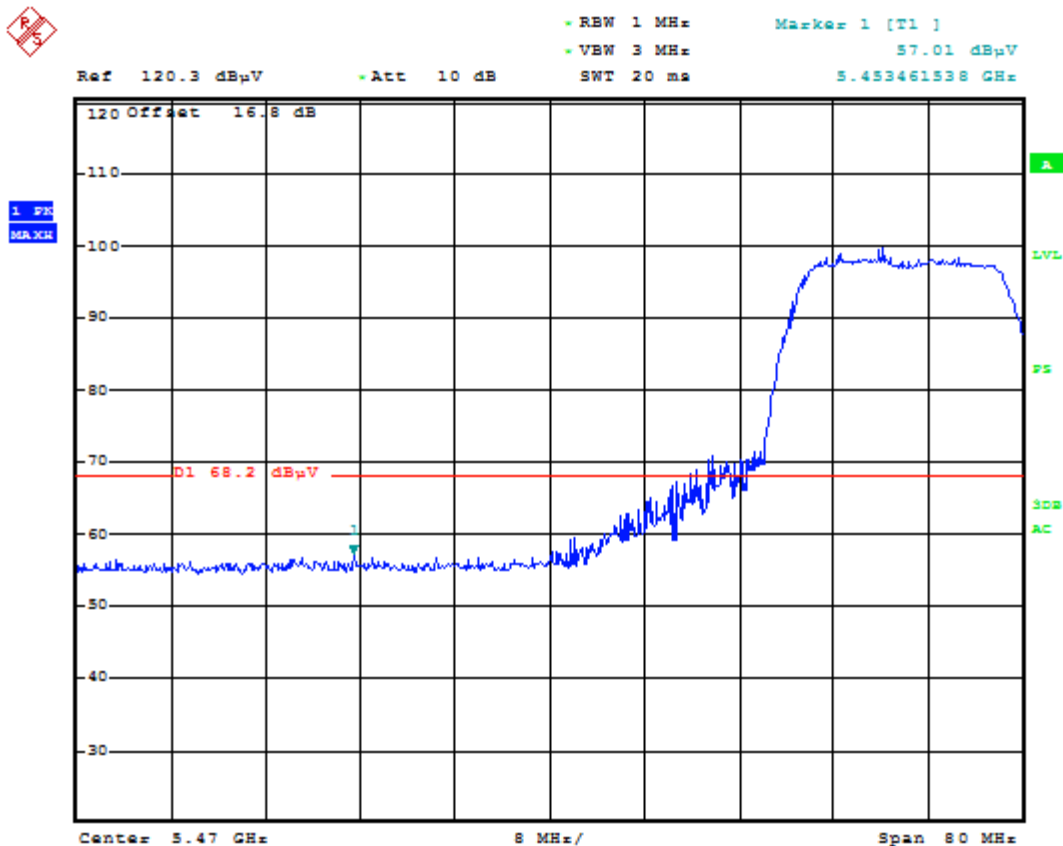
Date: 6.DEC.2013 23:05:39

Plot 6-172. Radiated Restricted Lower Band Edge Plot (Average - UNII Band 2C)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 155 of 177

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

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



Date: 6.DEC.2013 23:05:20

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 156 of 177

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

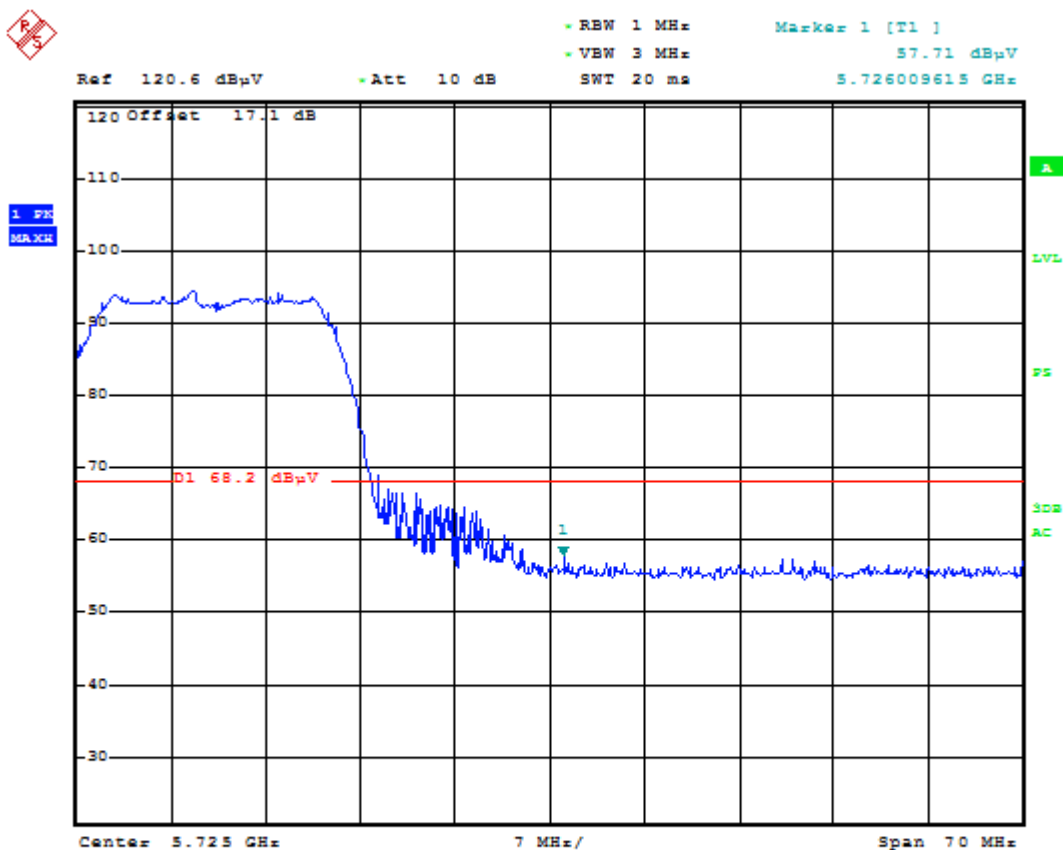
Worst Case Mode: 802.11n (20MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5700MHz

Channel: 140



Date: 6.DEC.2013 23:07:09

Plot 6-174. Radiated Upper Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 157 of 177

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

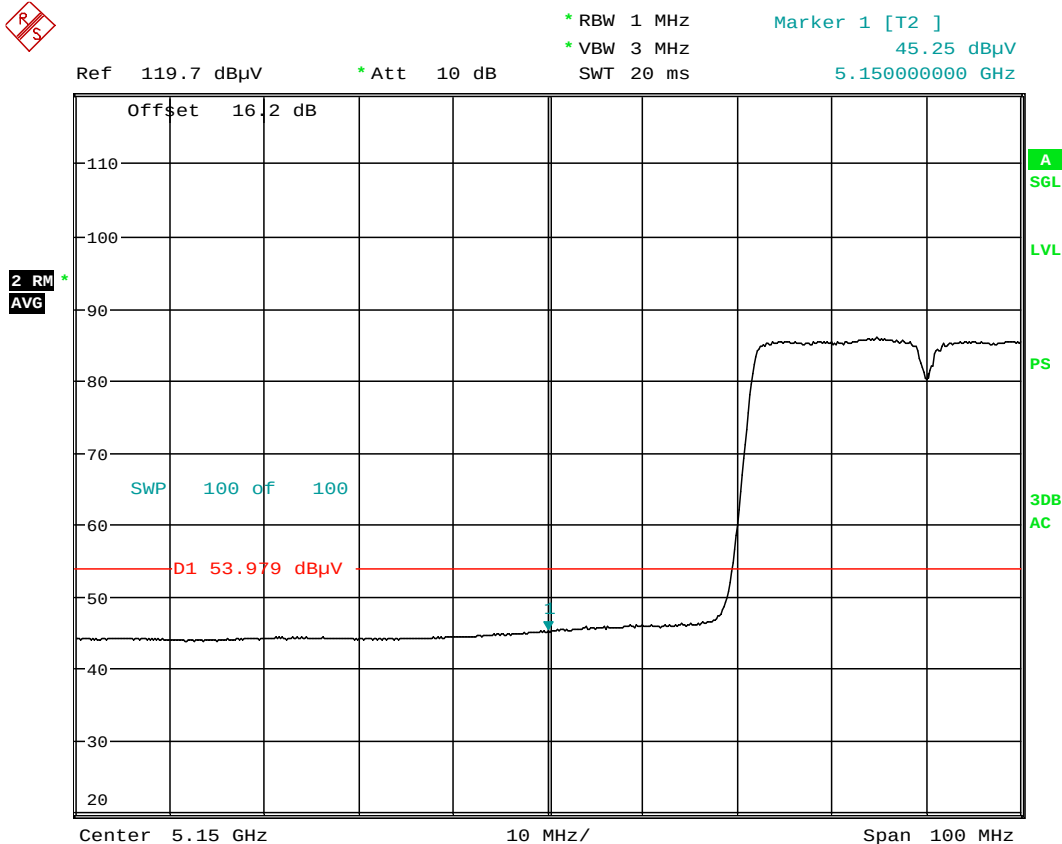
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5190MHz

Channel: 38



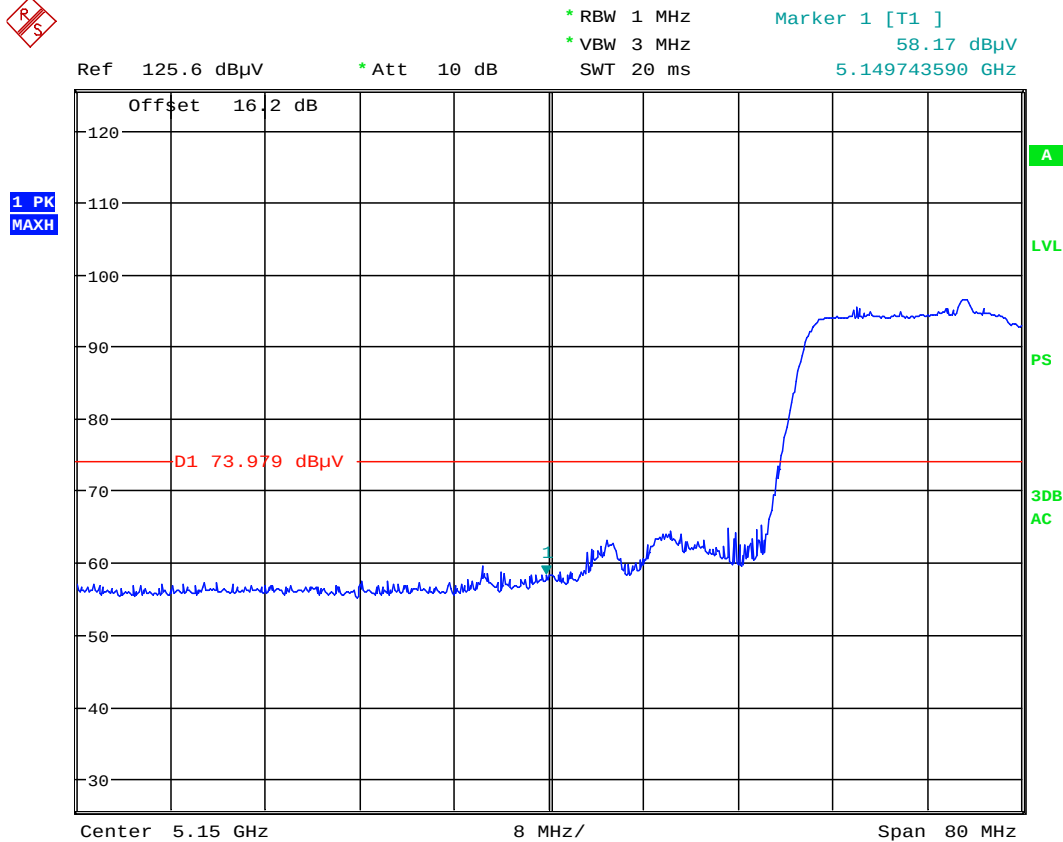
Date: 6.DEC.2013 21:40:15

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 158 of 177

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

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



Date: 6.DEC.2013 21:37:24

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 159 of 177

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

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

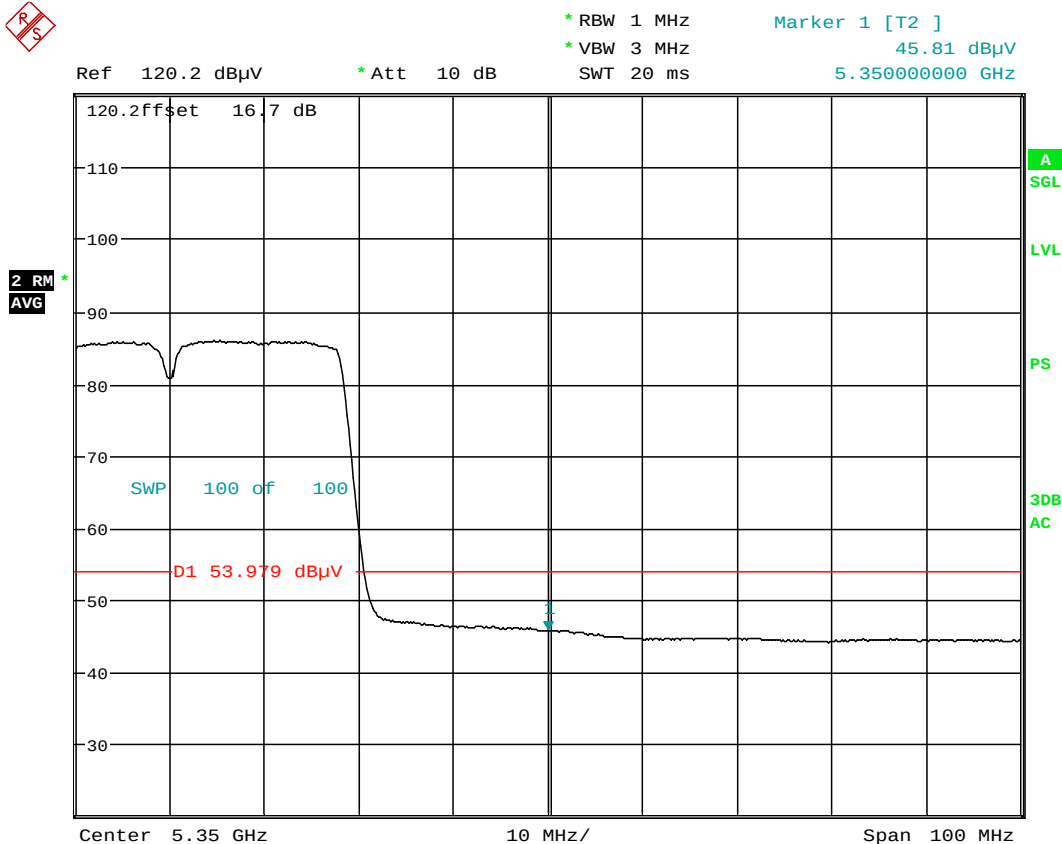
Worst Case Mode: 802.11n (40MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5310MHz

Channel: 62



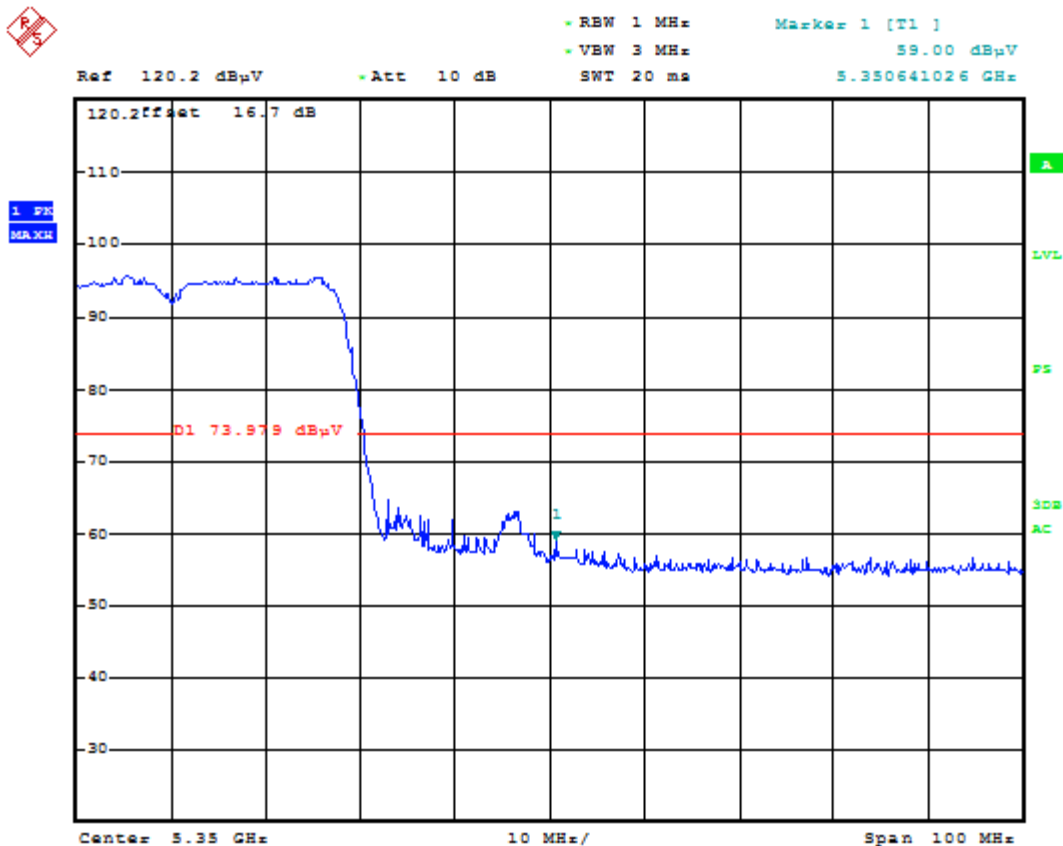
Date: 6.DEC.2013 22:12:59

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 160 of 177

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

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



Date: 6.DEC.2013 22:13:34

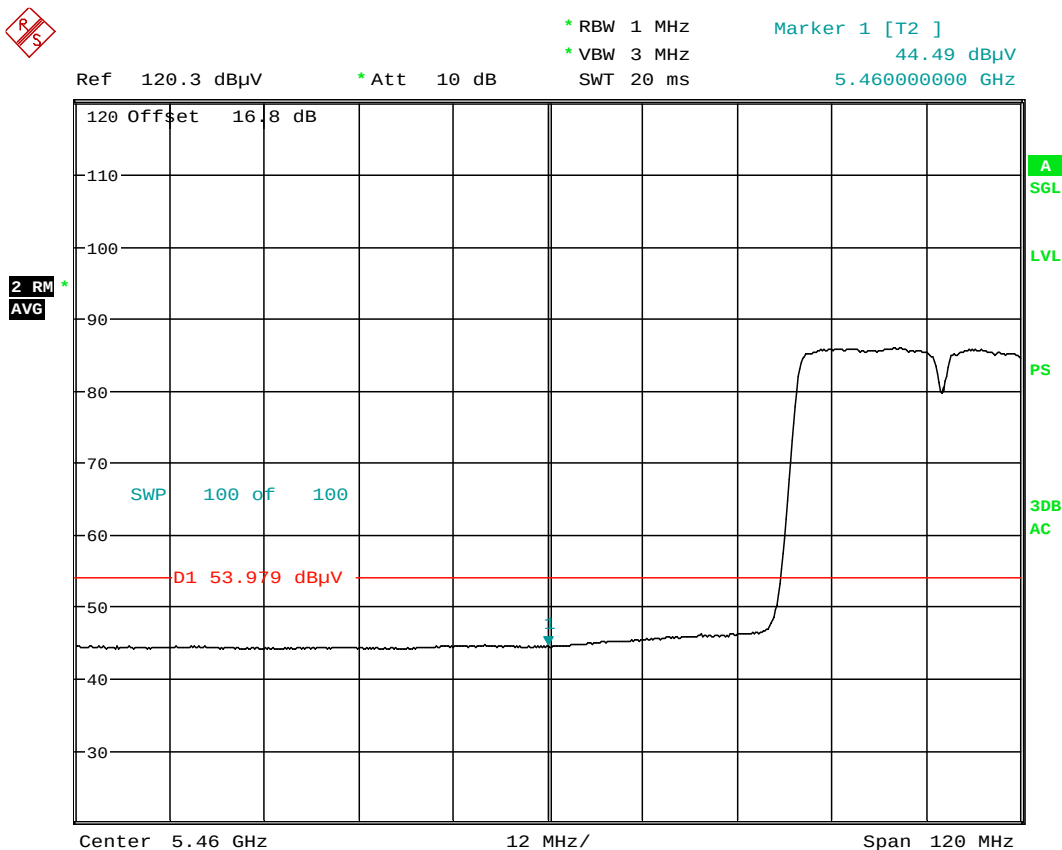
Plot 6-178. Radiated Restricted Upper Band Edge Plot (Peak – UNII Band 2A)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 161 of 177

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: 802.11n (40MHz)
Worst Case Transfer Rate: MCS8
Distance of Measurements: 3 Meters
Operating Frequency: 5510MHz
Channel: 102



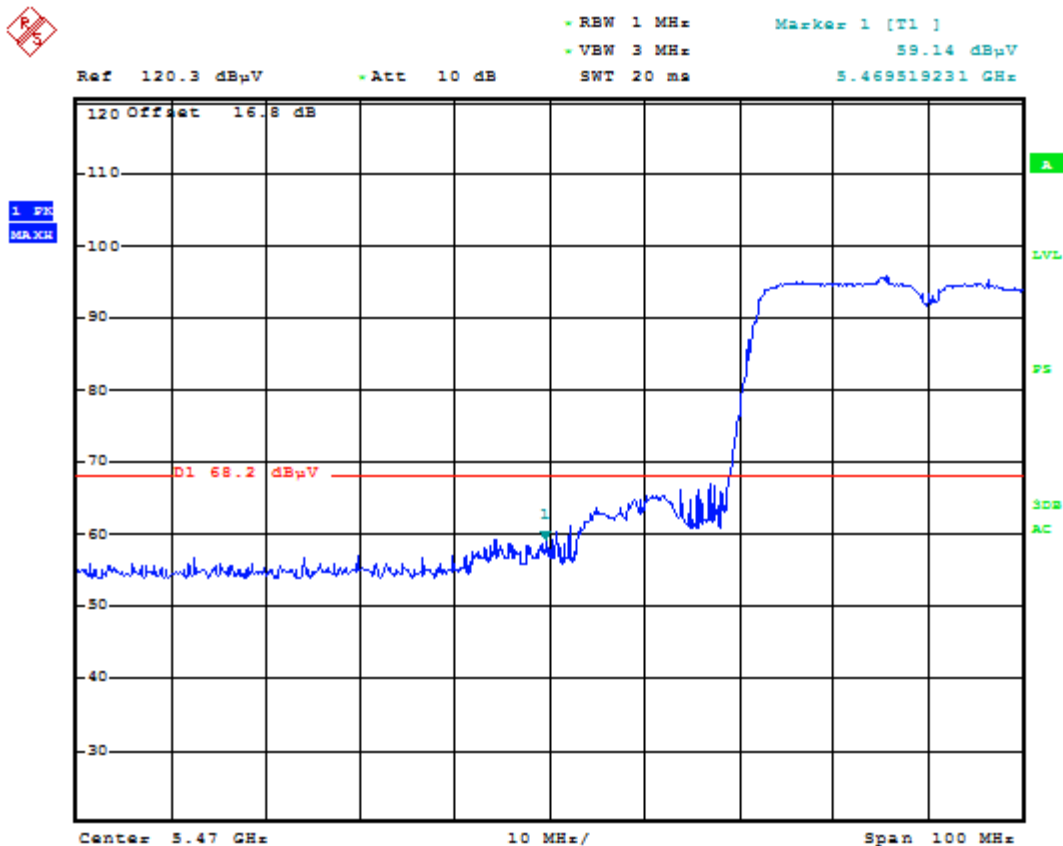
Date: 6.DEC.2013 23:03:53

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 162 of 177

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

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



Date: 6.DEC.2013 23:04:11

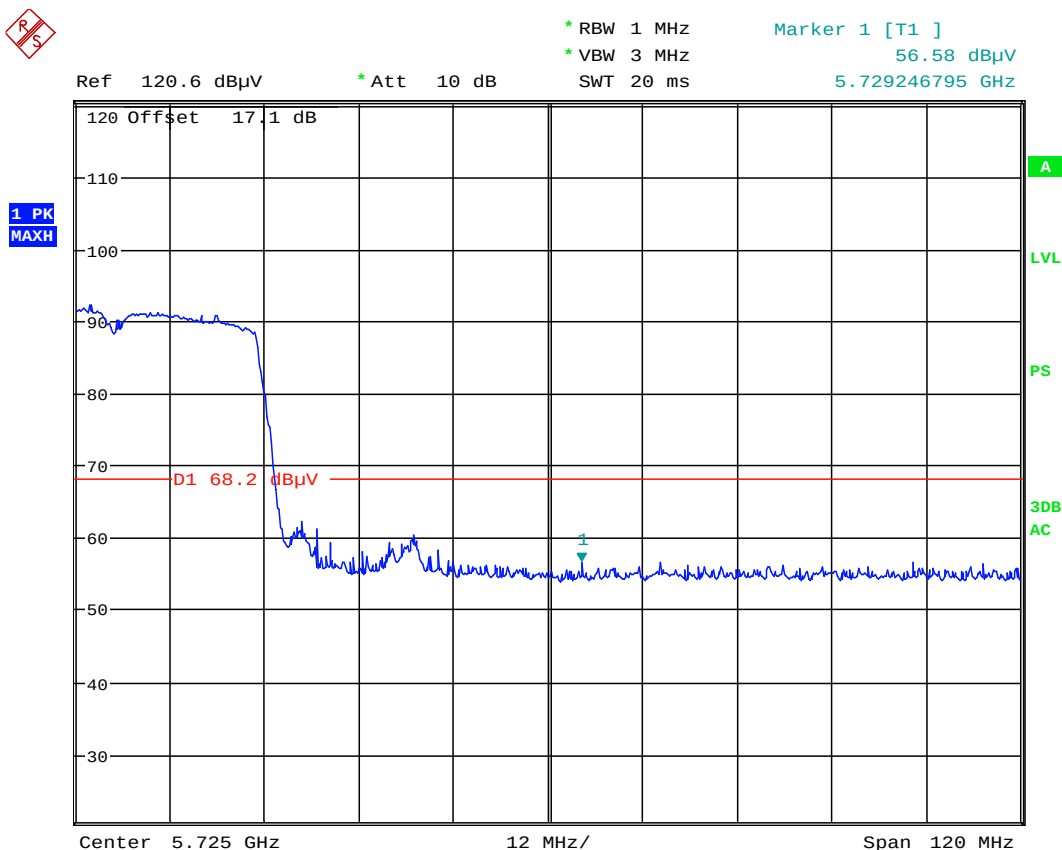
Plot 6-180. Radiated Restricted Lower Band Edge Plot (Peak – UNII Band 2C)

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 163 of 177

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: 802.11n (40MHz)
Worst Case Transfer Rate: MCS8
Distance of Measurements: 3 Meters
Operating Frequency: 5670MHz
Channel: 134



Date: 6.DEC.2013 23:08:26

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 164 of 177

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

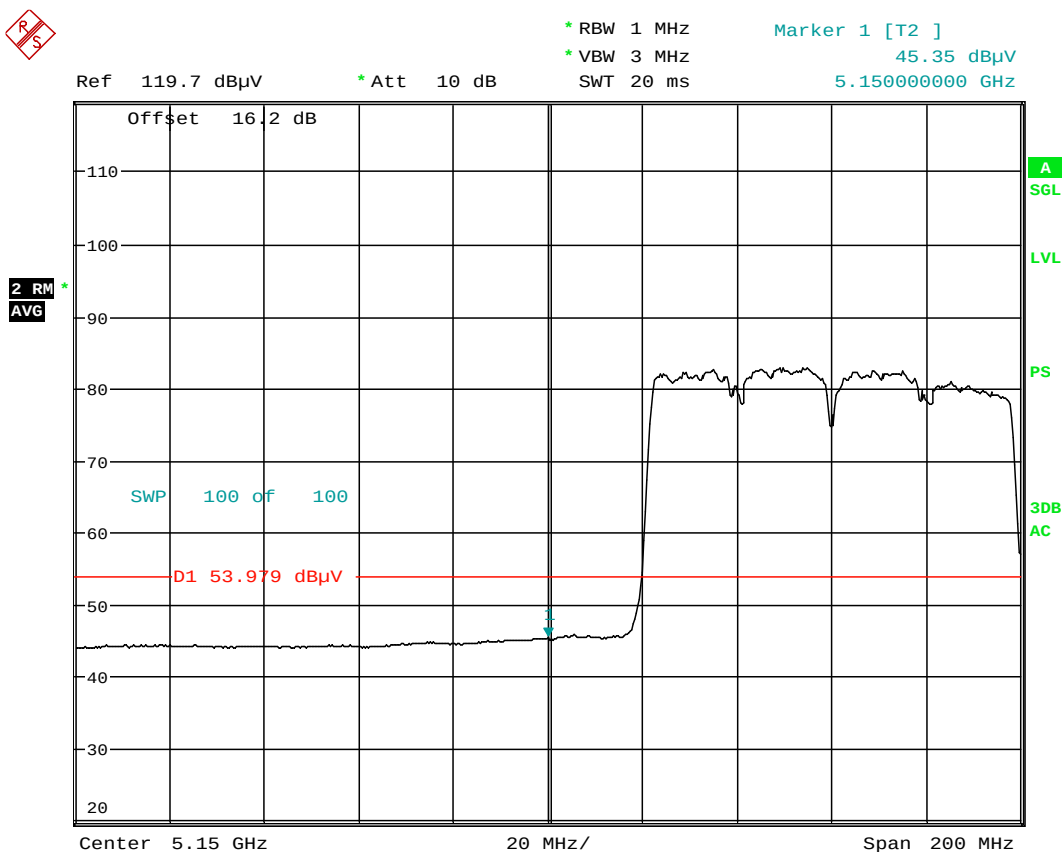
Worst Case Mode: 802.11n (80MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5210MHz

Channel: 42



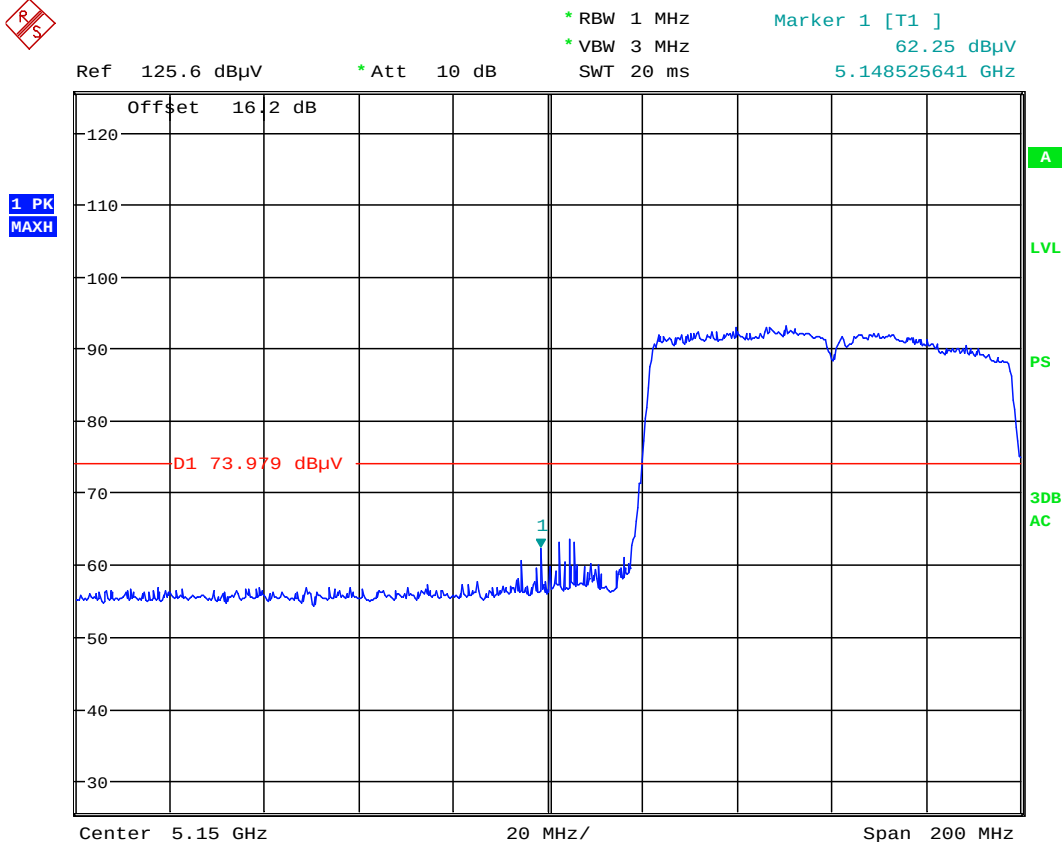
Date: 6.DEC.2013 21:38:52

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 165 of 177

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

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



Date: 6.DEC.2013 21:39:15

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

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 166 of 177

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

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

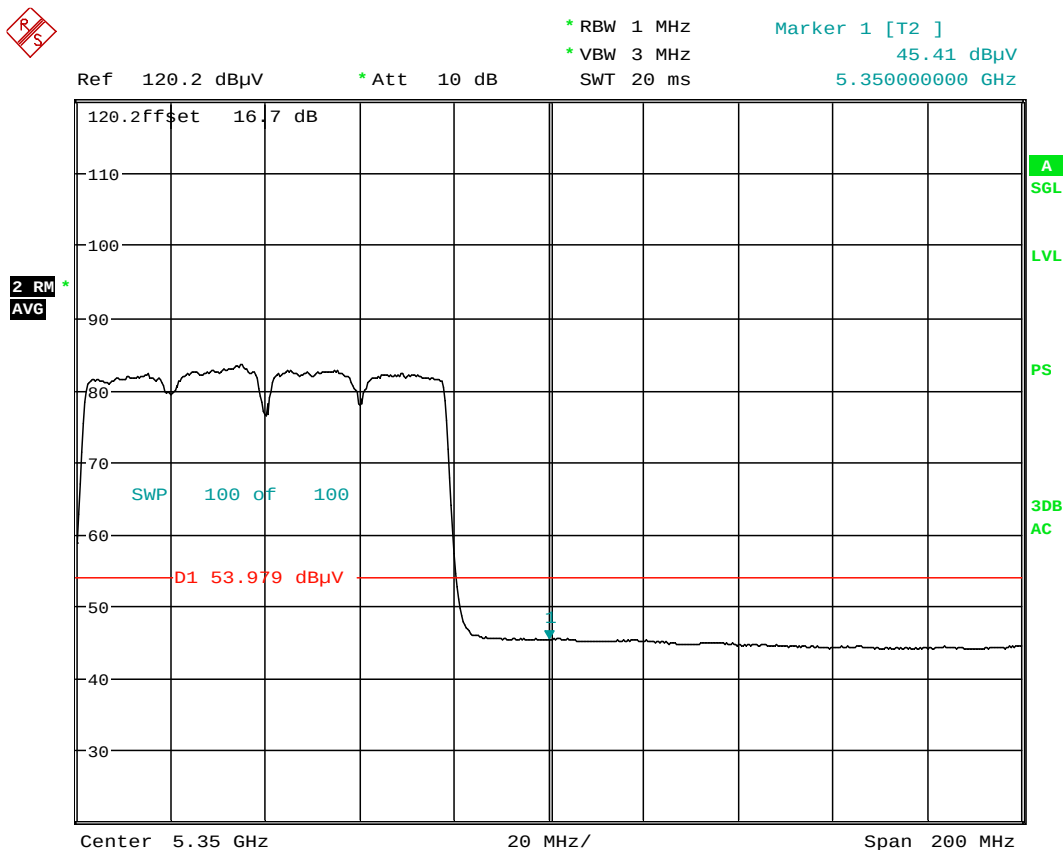
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5290MHz

Channel: 58



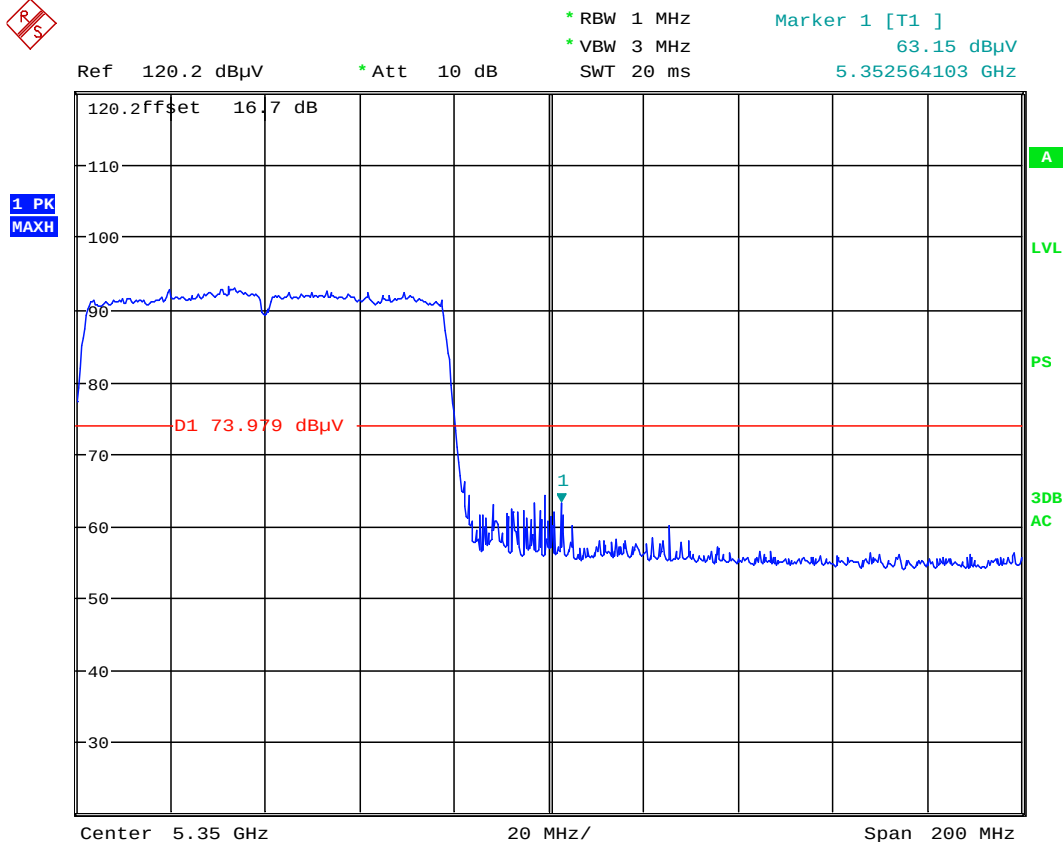
Date: 6.DEC.2013 22:10:15

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

FCC ID: A3LSMP905A	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: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 167 of 177

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

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



Date: 6.DEC.2013 22:09:50

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

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 168 of 177

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

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

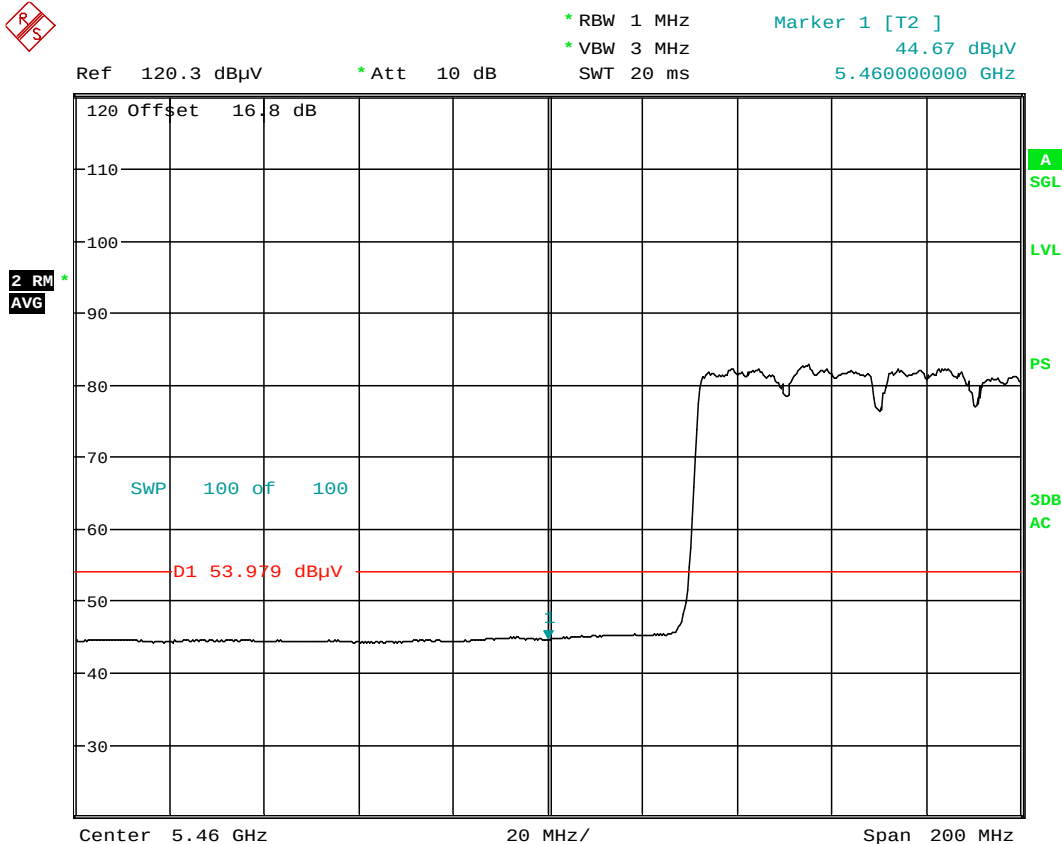
Worst Case Mode: 802.11ac (80MHz)

Worst Case Transfer Rate: MCS8

Distance of Measurements: 3 Meters

Operating Frequency: 5530MHz

Channel: 106



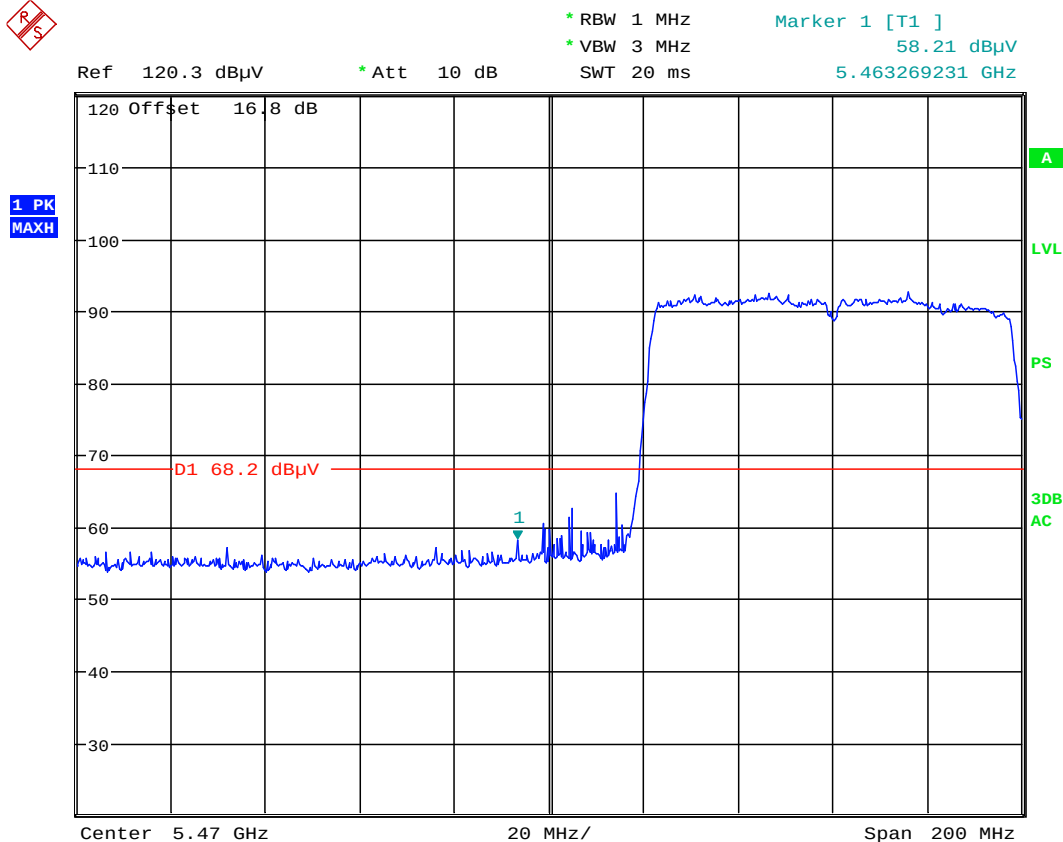
Date: 6.DEC.2013 23:00:48

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

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 169 of 177

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

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



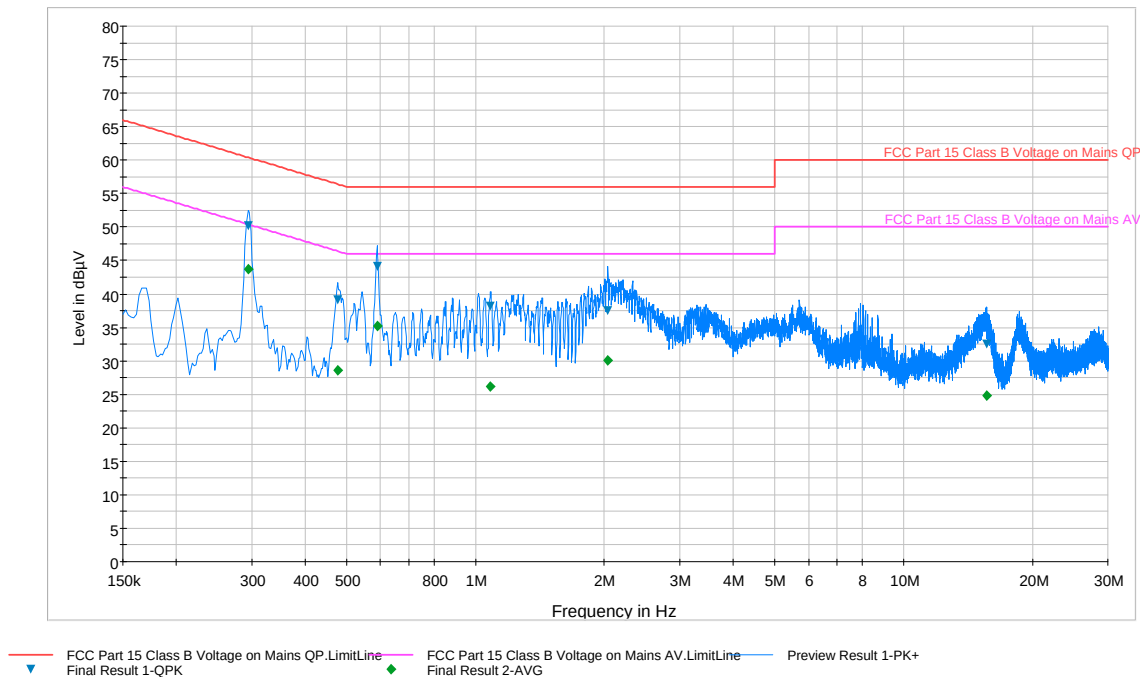
Date: 6.DEC.2013 23:01:13

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

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 170 of 177

6.11 Line-Conducted Test Data

§15.207; RSS-Gen [7.2.2]



Plot 6-188. 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	50.20	60.40	10.20	43.80	50.40	6.60
0.476	L1	0.0	39.10	56.40	17.30	28.60	46.40	17.80
0.589	L1	0.0	44.10	56.00	11.90	35.20	46.00	10.80
1.084	L1	0.2	38.20	56.00	17.80	26.20	46.00	19.80
2.038	L1	0.2	37.50	56.00	18.50	30.10	46.00	15.90
15.637	L1	0.9	32.50	60.00	27.50	24.80	50.00	25.20

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

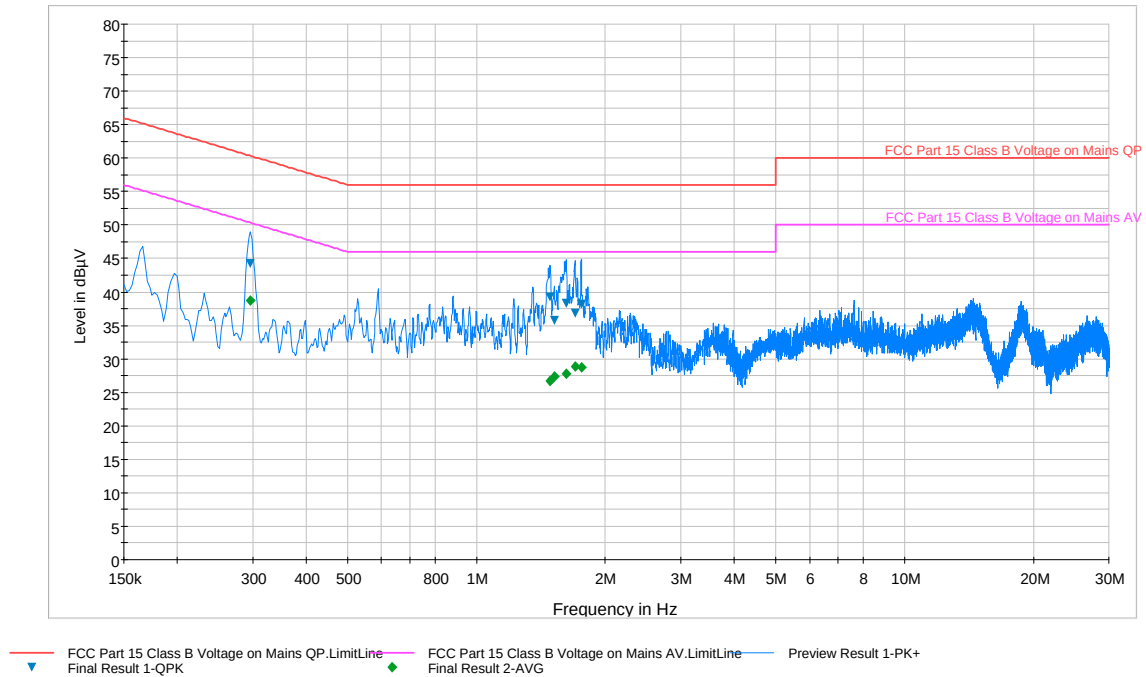
Notes:

- 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: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 171 of 177

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-189. 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
0.296	N	0.1	44.20	60.30	16.10	38.70	50.30	11.60
1.484	N	0.2	39.30	56.00	16.70	26.70	46.00	19.30
1.518	N	0.2	35.80	56.00	20.20	27.40	46.00	18.60
1.622	N	0.2	38.40	56.00	17.60	27.80	46.00	18.20
1.700	N	0.2	36.80	56.00	19.20	28.90	46.00	17.10
1.757	N	0.2	38.20	56.00	17.80	28.70	46.00	17.30

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

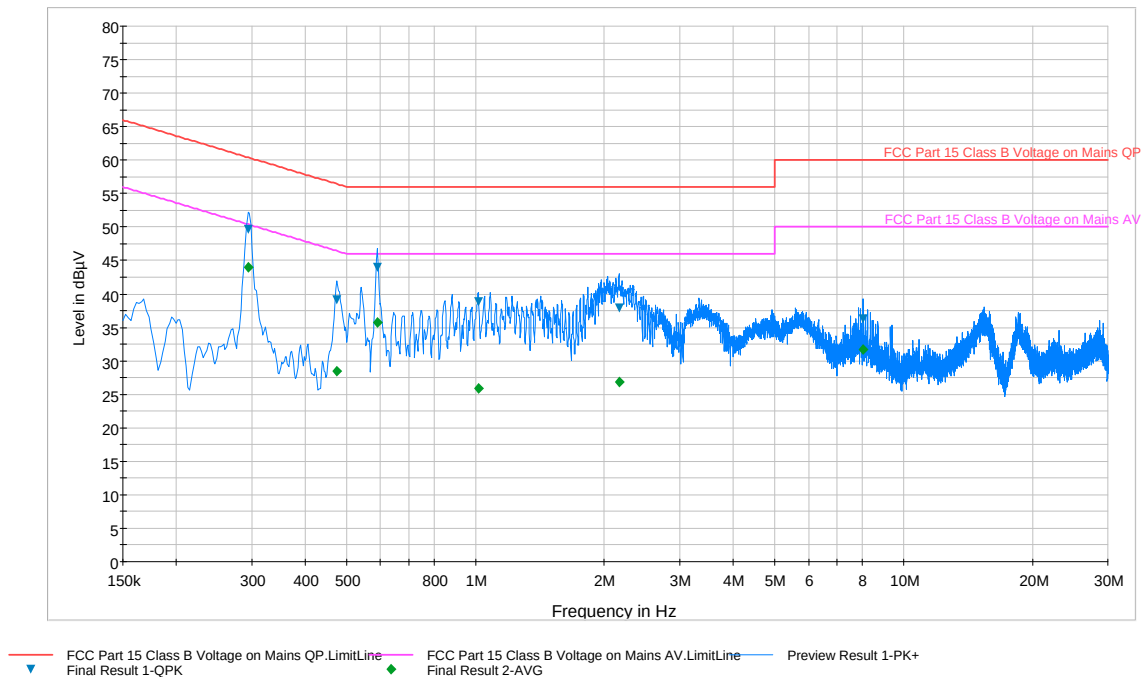
Notes:

- 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: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 172 of 177

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-190. 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	49.70	60.40	10.70	44.00	50.40	6.40
0.474	L1	0.0	39.10	56.40	17.30	28.40	46.40	18.00
0.589	L1	0.0	44.00	56.00	12.00	35.80	46.00	10.20
1.014	L1	0.2	38.80	56.00	17.20	25.80	46.00	20.20
2.164	L1	0.2	37.90	56.00	18.10	26.80	46.00	19.20
8.043	L1	0.5	36.20	60.00	23.80	31.70	50.00	18.30

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

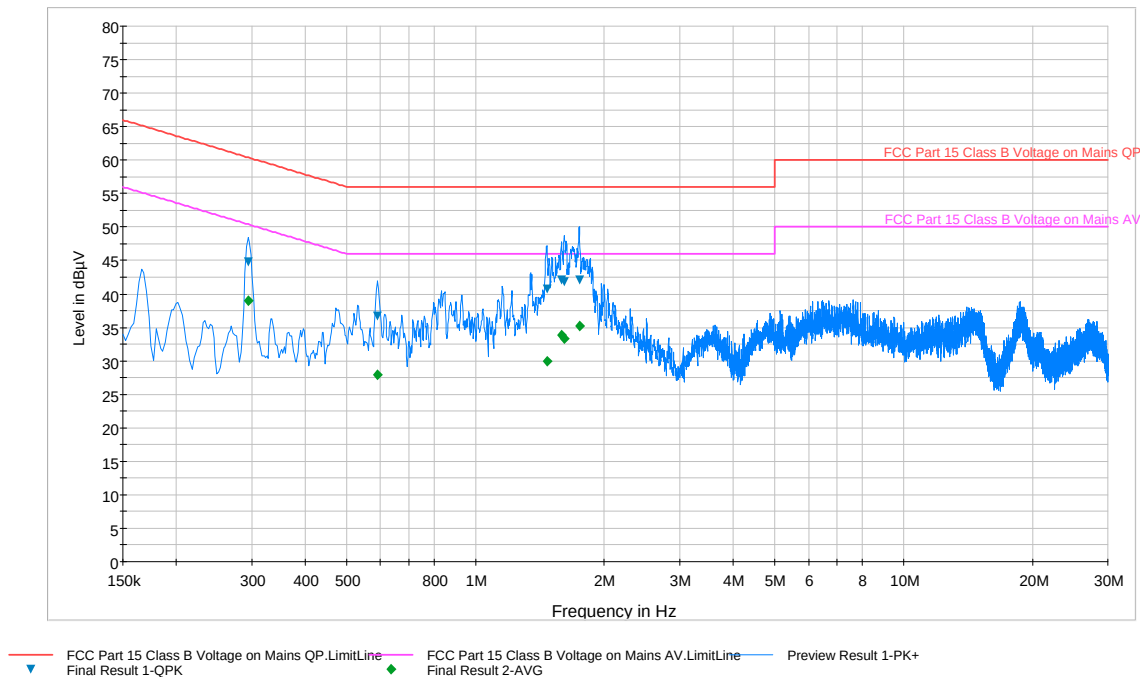
Notes:

- 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: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 173 of 177

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-191. 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	44.80	60.40	15.60	39.00	50.40	11.40
0.591	N	0.1	36.80	56.00	19.20	27.90	46.00	18.10
1.469	N	0.2	40.80	56.00	15.20	30.00	46.00	16.00
1.588	N	0.2	42.10	56.00	13.90	33.80	46.00	12.20
1.613	N	0.2	41.90	56.00	14.10	33.30	46.00	12.70
1.748	N	0.2	42.10	56.00	13.90	35.20	46.00	10.80

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

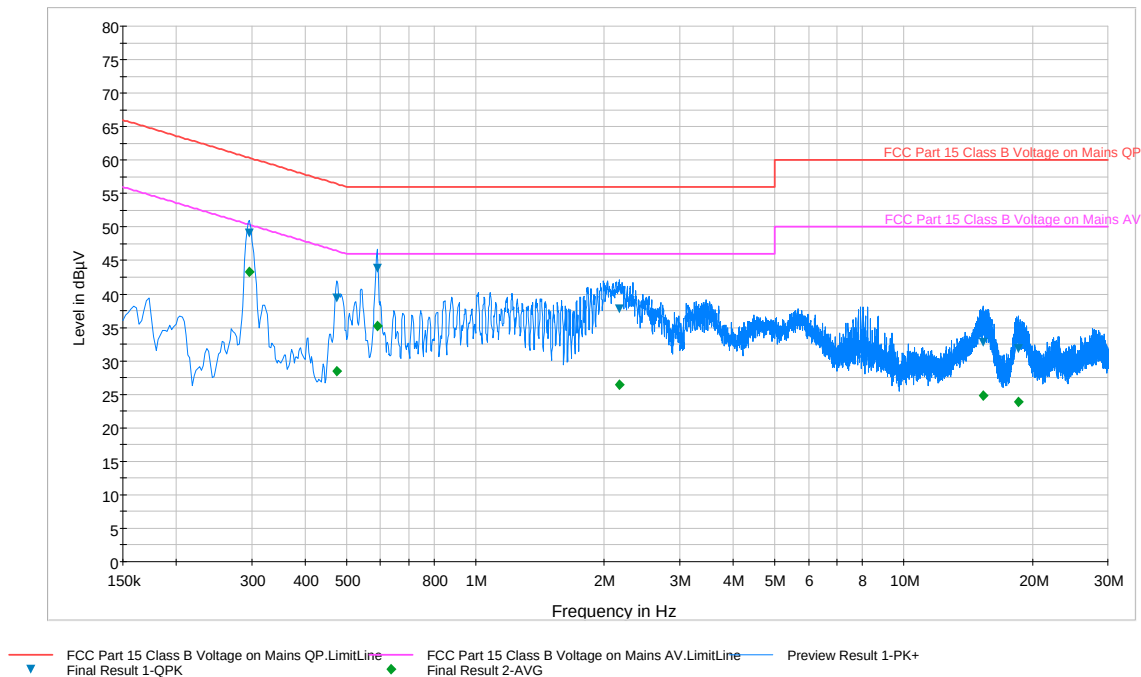
Notes:

- 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.

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 174 of 177

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-192. 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
0.296	L1	0.1	49.10	60.30	11.20	43.30	50.30	7.00
0.474	L1	0.0	39.40	56.40	17.00	28.40	46.40	18.00
0.589	L1	0.0	43.90	56.00	12.10	35.20	46.00	10.80
2.166	L1	0.2	37.80	56.00	18.20	26.50	46.00	19.50
15.329	L1	0.9	32.80	60.00	27.20	24.80	50.00	25.20
18.551	L1	1.2	31.90	60.00	28.10	23.80	50.00	26.20

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

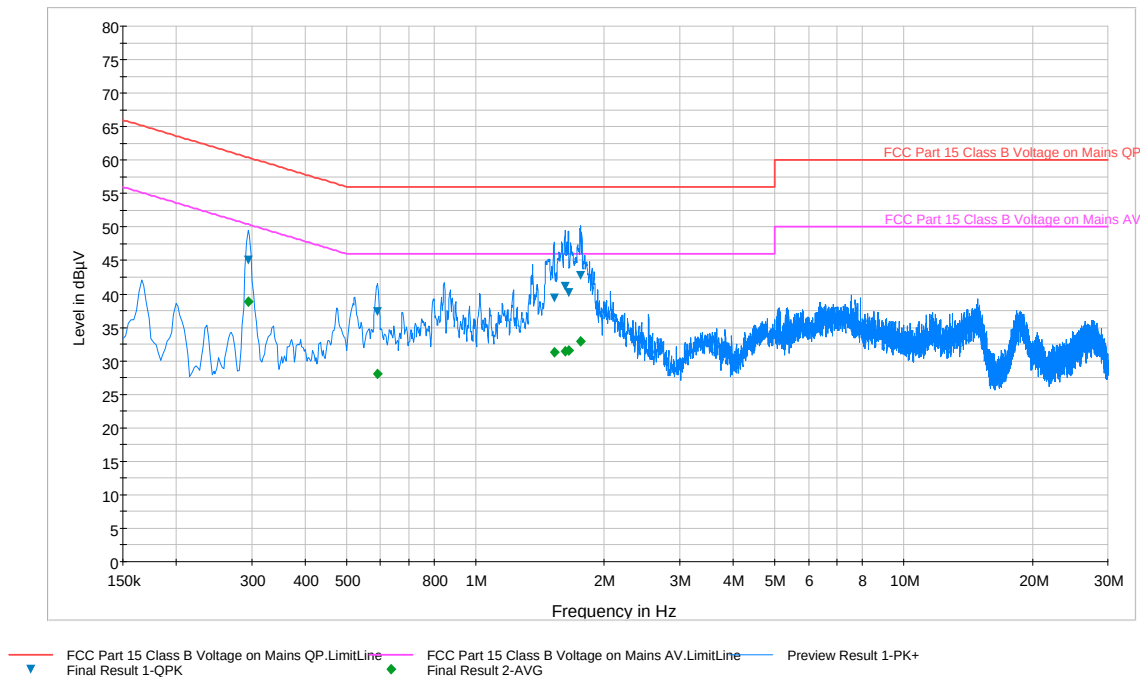
Notes:

- 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.

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 175 of 177

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-193. 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	45.00	60.40	15.40	38.80	50.40	11.60
0.589	N	0.1	37.30	56.00	18.70	28.10	46.00	17.90
1.525	N	0.2	39.40	56.00	16.60	31.20	46.00	14.80
1.619	N	0.2	41.10	56.00	14.90	31.50	46.00	14.50
1.649	N	0.2	40.20	56.00	15.80	31.60	46.00	14.40
1.759	N	0.2	42.80	56.00	13.20	32.90	46.00	13.10

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.

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 176 of 177

7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Tablet Computer FCC ID: A3LSMP905A** is in compliance with Part 15E of the FCC Rules.

FCC ID: A3LSMP905A		FCC Pt. 15.407 802.11a/n/ac UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1312022287.A3L-R1	Test Dates: 12/4-12/20/2013	EUT Type: Portable Tablet Computer		Page 177 of 177