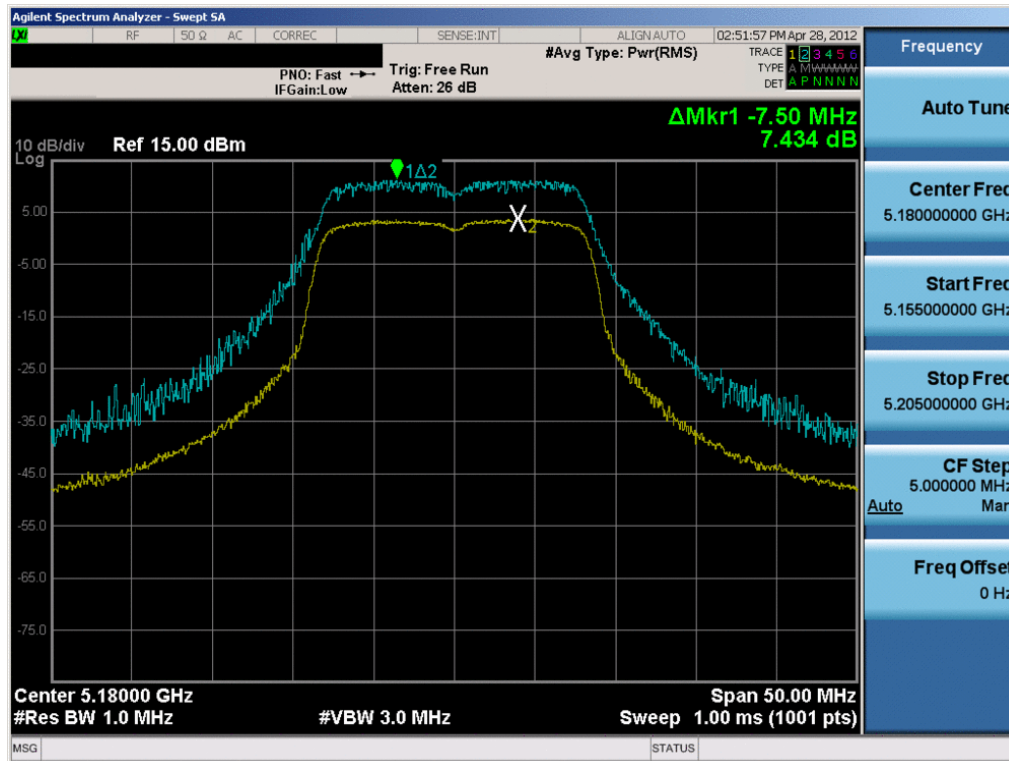
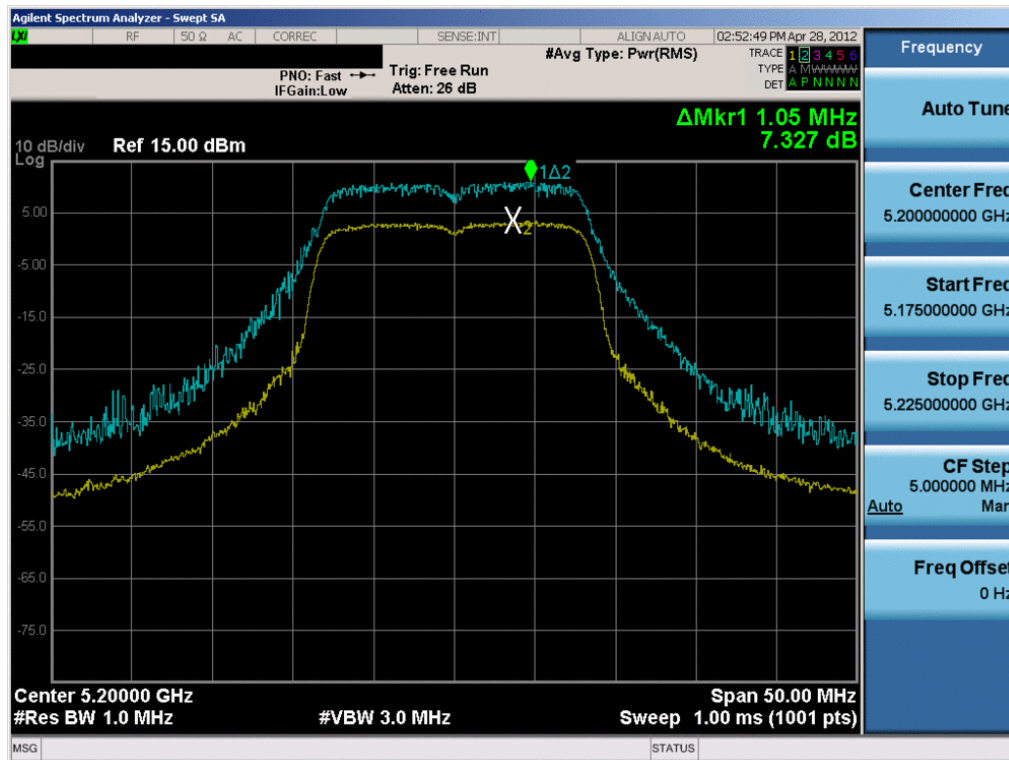


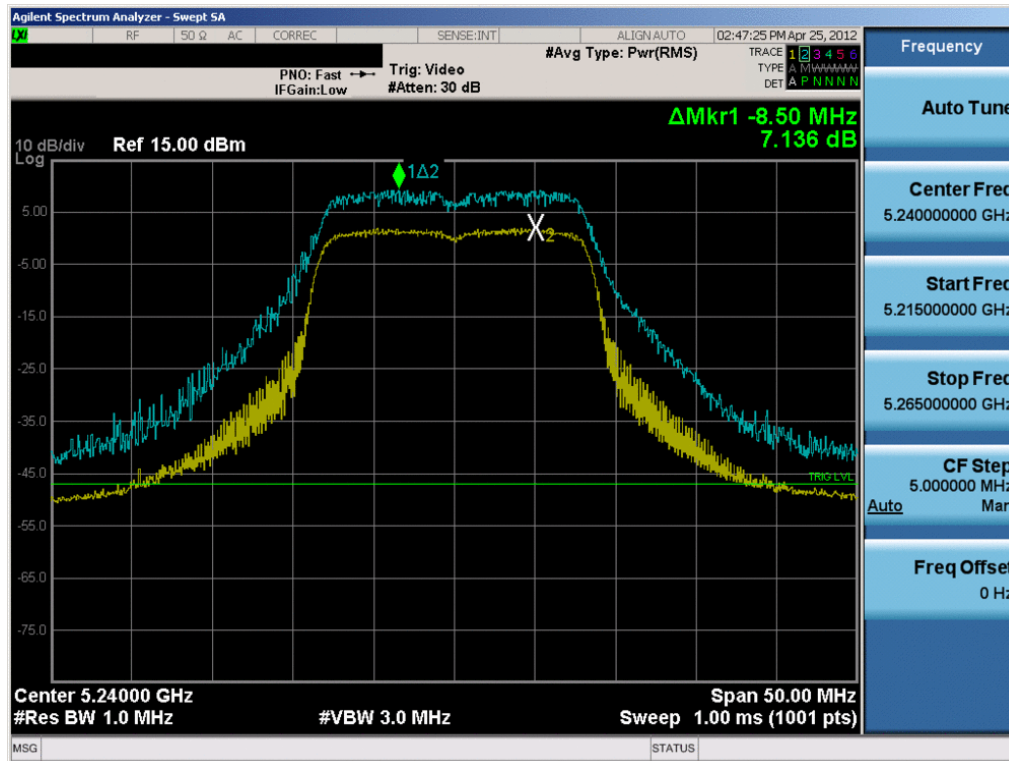


Plot 6-37. Peak Excursion Ratio Plot (802.11a (UNII Band 1) – Ch. 36)

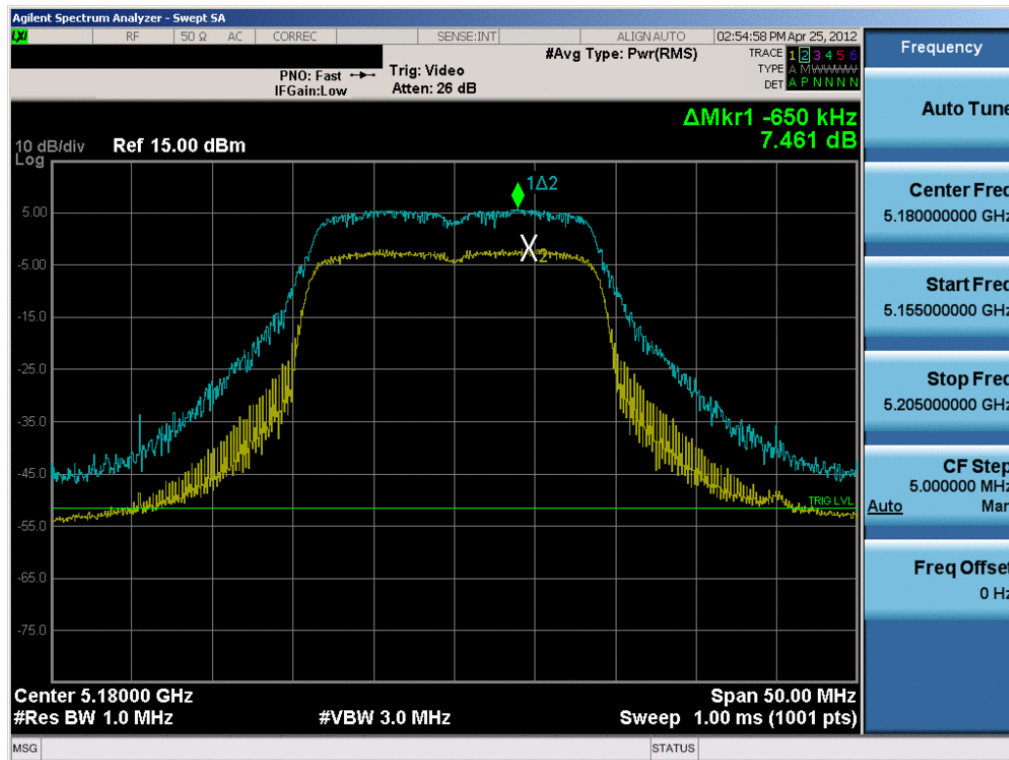


Plot 6-38. Peak Excursion Ratio Plot (802.11a (UNII Band 1) – Ch. 40)

FCC ID: A3LGTS7500W	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1204200540.A3L	Test Dates: 4/25/12 - 4/28/12	EUT Type: Portable Handset		Page 34 of 66

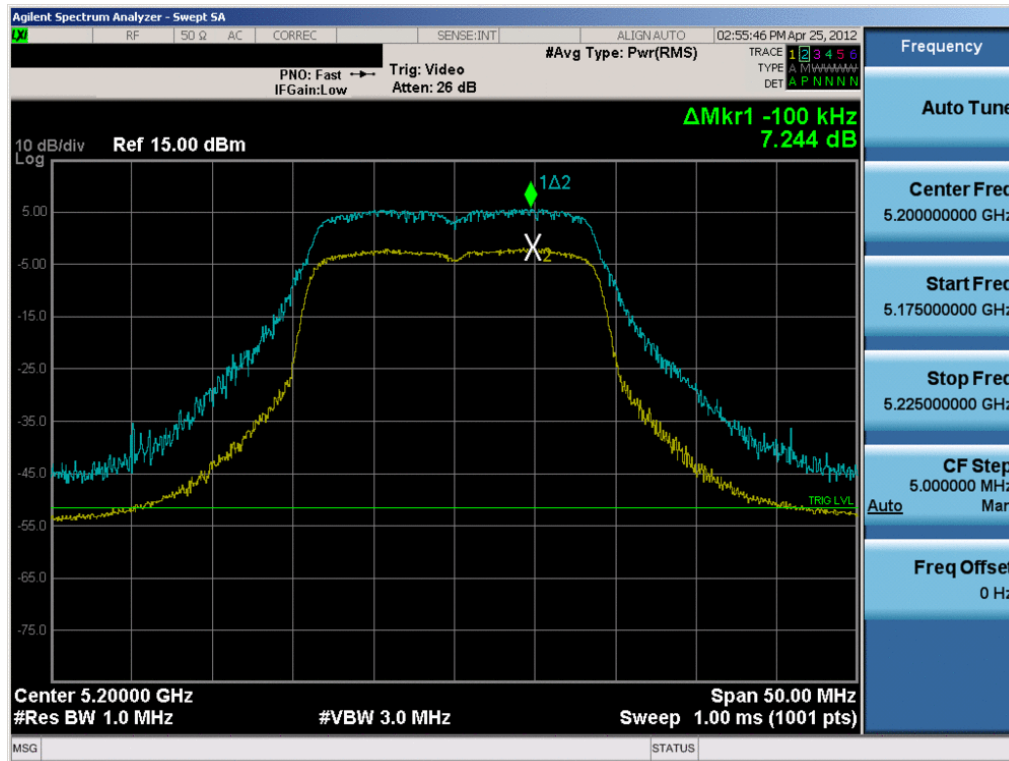


Plot 6-39. Peak Excursion Ratio Plot (802.11a (UNII Band 1) – Ch. 48)

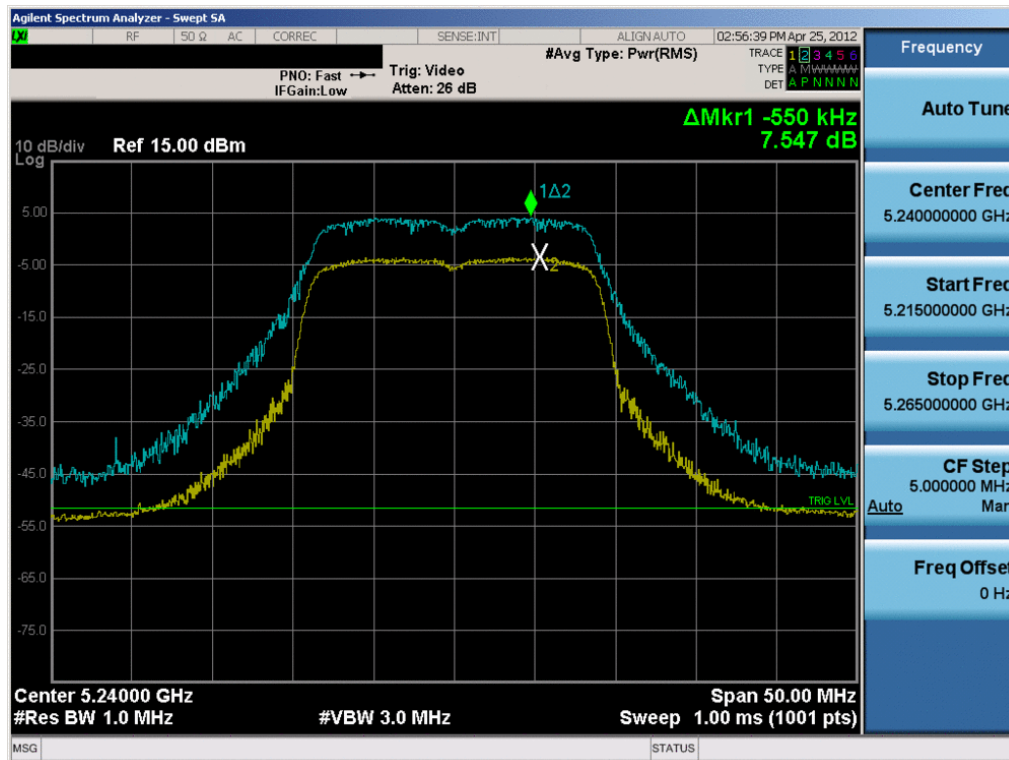


Plot 6-40. Peak Excursion Ratio Plot (802.11n (UNII Band 1) – Ch. 36)

FCC ID: A3LGTS7500W	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1204200540.A3L	Test Dates: 4/25/12 - 4/28/12	EUT Type: Portable Handset		Page 35 of 66

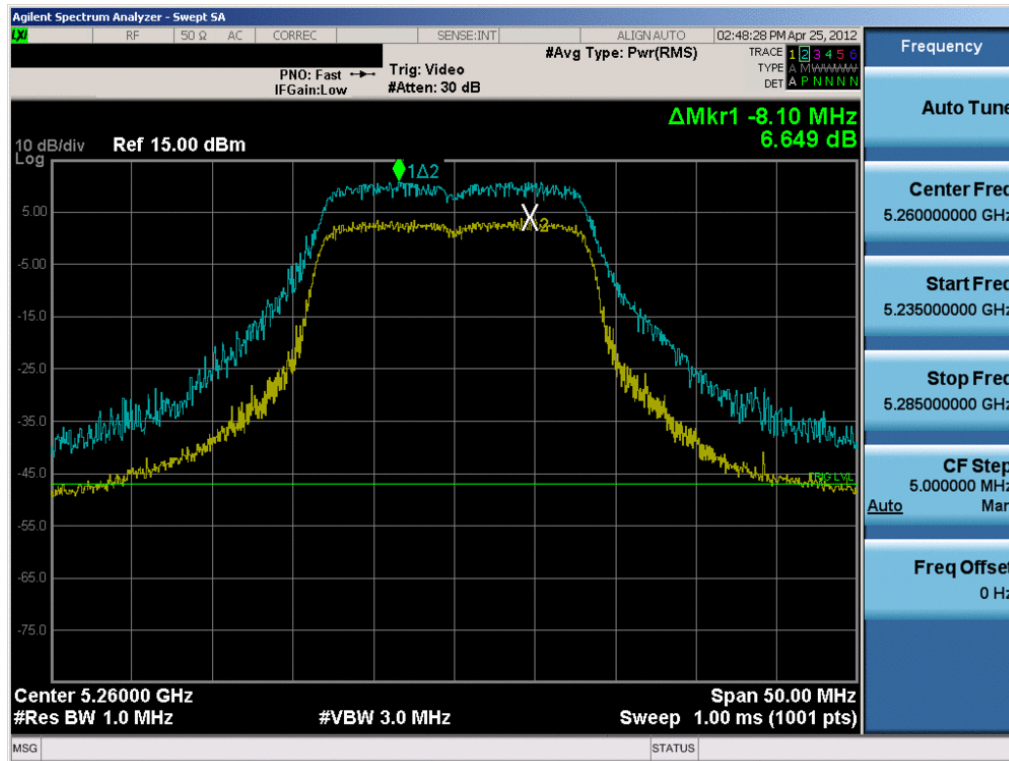


Plot 6-41. Peak Excursion Ratio Plot (802.11n (UNII Band 1) – Ch. 40)

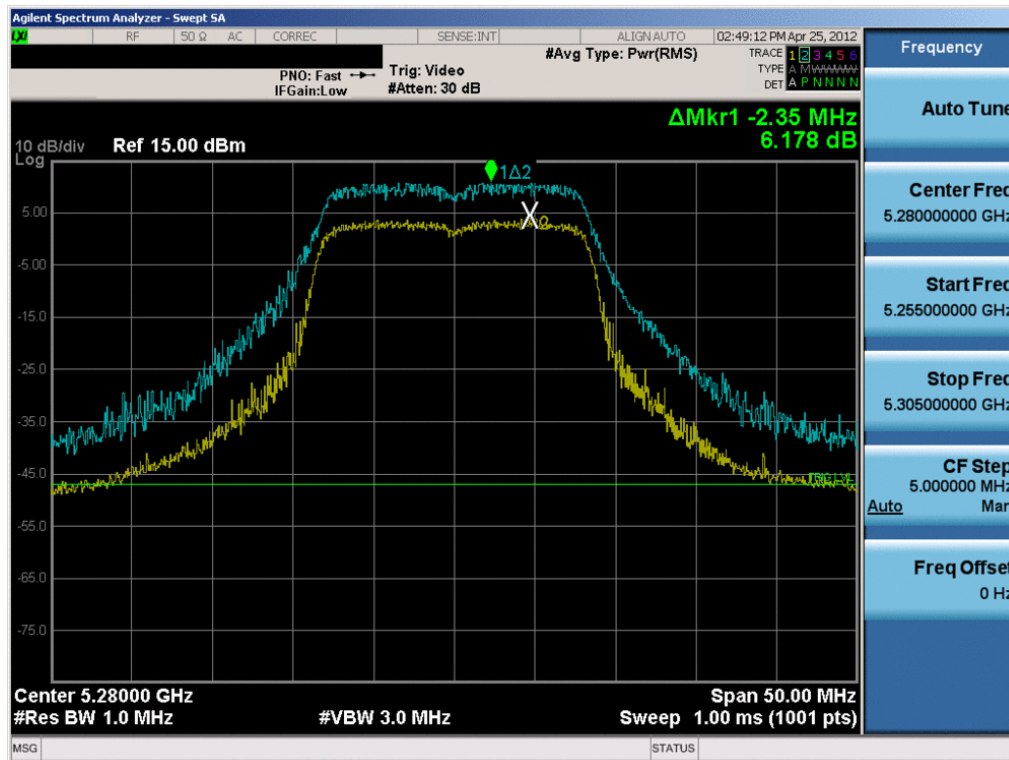


Plot 6-42. Peak Excursion Ratio Plot (802.11n (UNII Band 1) – Ch. 48)

FCC ID: A3LGTS7500W	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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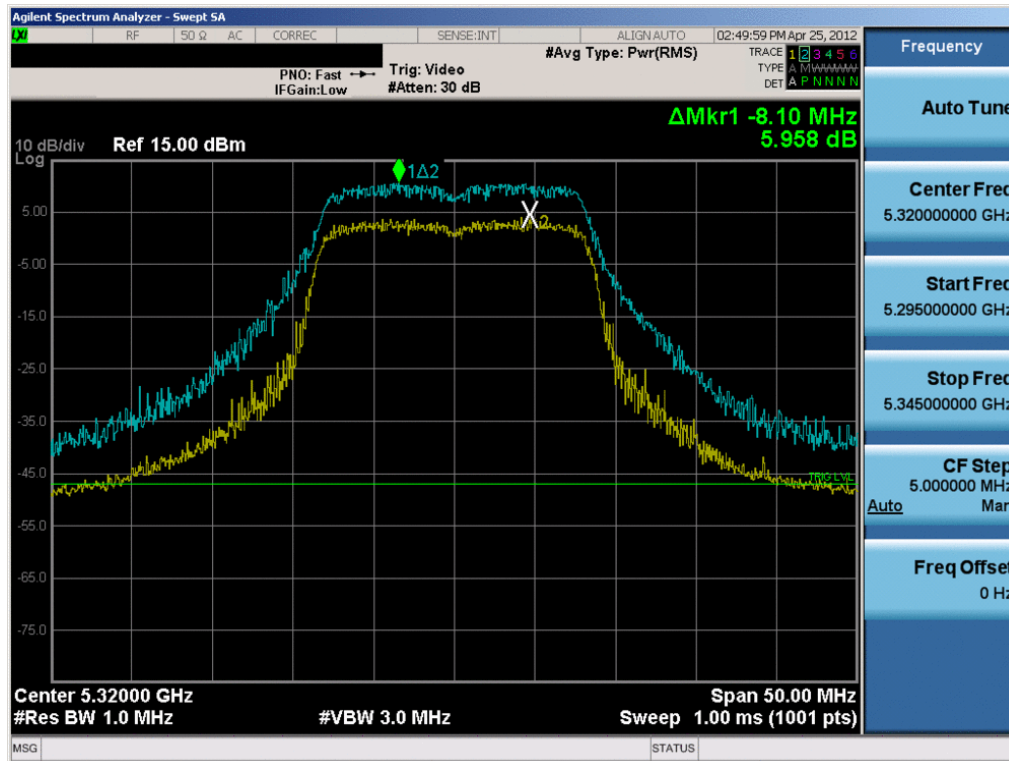


Plot 6-43. Peak Excursion Ratio Plot (802.11a (UNII Band 2) – Ch. 52)

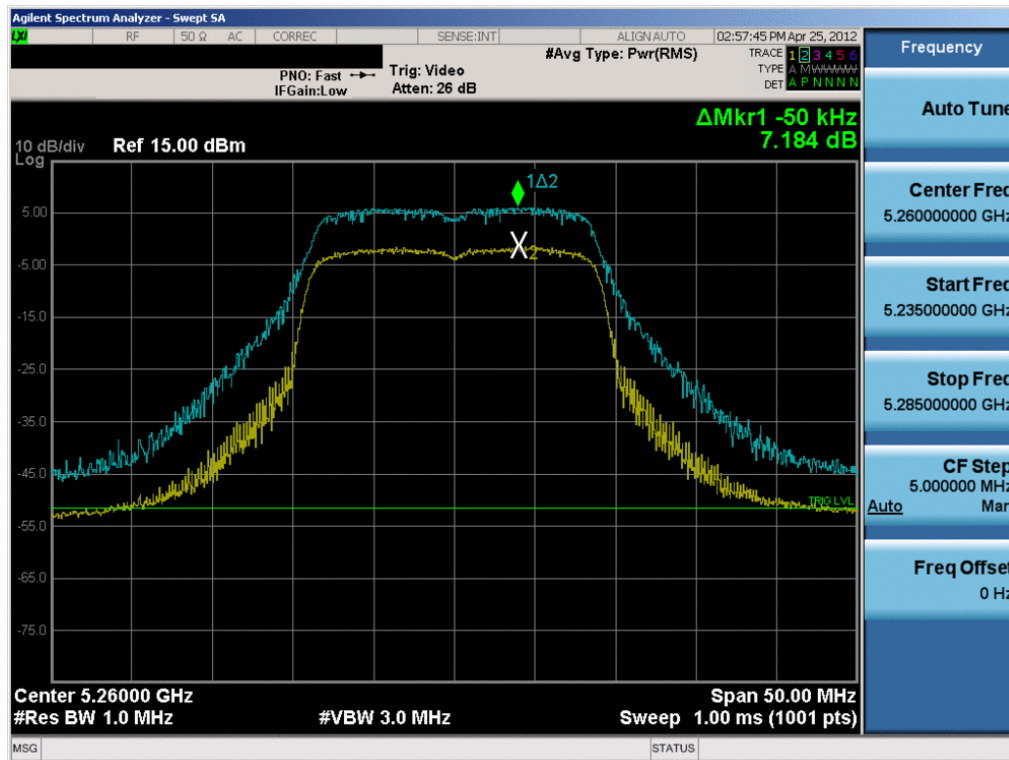


Plot 6-44. Peak Excursion Ratio Plot (802.11a (UNII Band 2) – Ch. 56)

FCC ID: A3LGTS7500W	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1204200540.A3L	Test Dates: 4/25/12 - 4/28/12	EUT Type: Portable Handset		Page 37 of 66

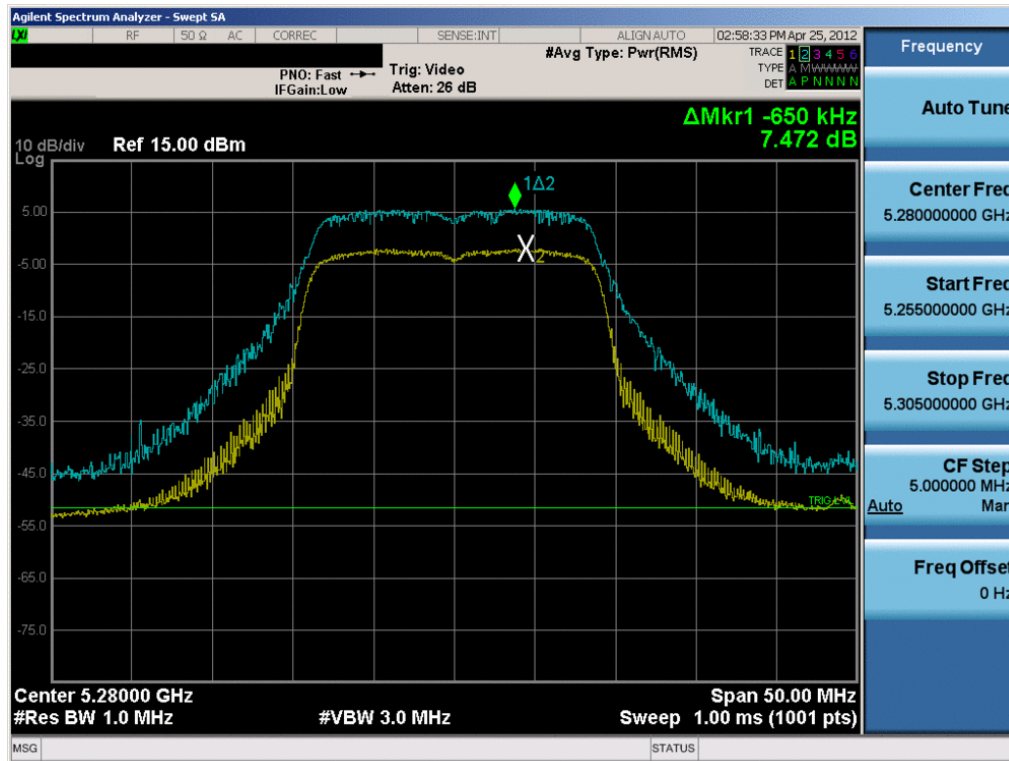


Plot 6-45. Peak Excursion Ratio Plot (802.11a (UNII Band 2) – Ch. 64)

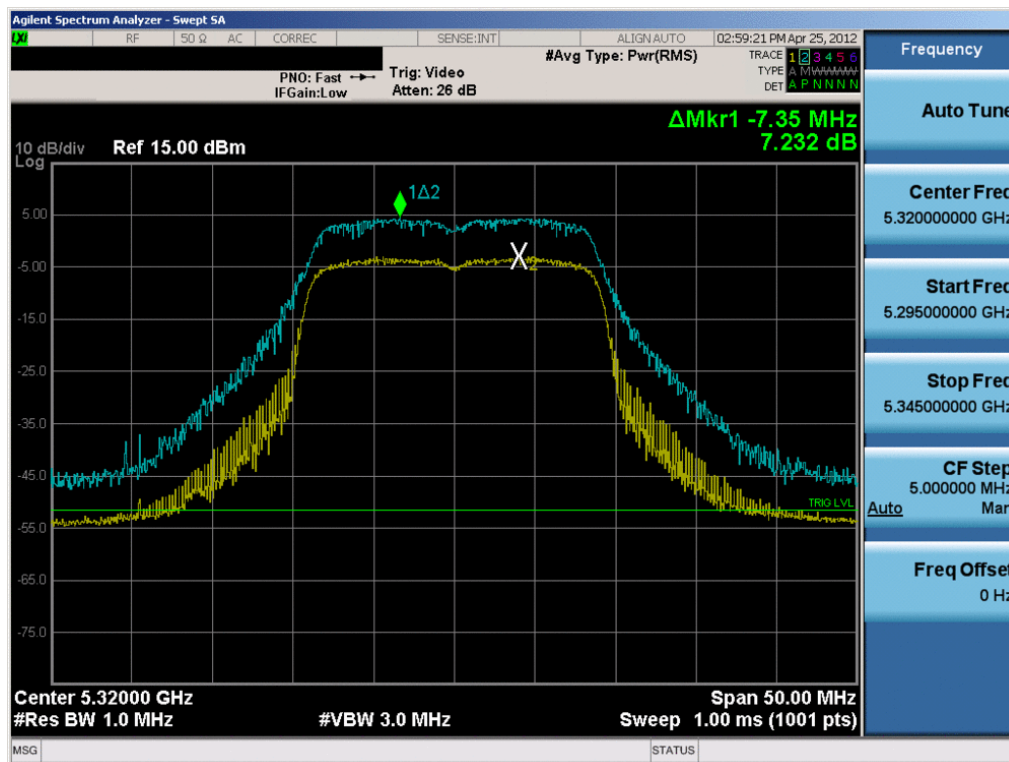


Plot 6-46. Peak Excursion Ratio Plot (802.11n (UNII Band 2) – Ch. 52)

FCC ID: A3LGTS7500W	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1204200540.A3L	Test Dates: 4/25/12 - 4/28/12	EUT Type: Portable Handset		Page 38 of 66

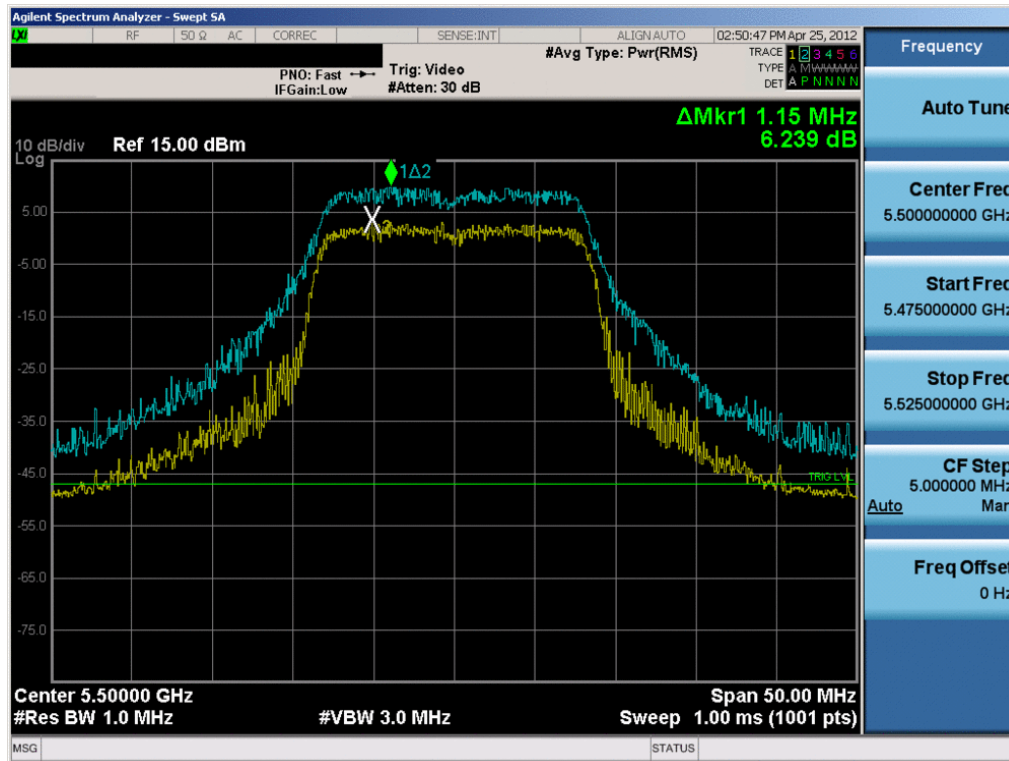


Plot 6-47. Peak Excursion Ratio Plot (802.11n (UNII Band 2) – Ch. 56)

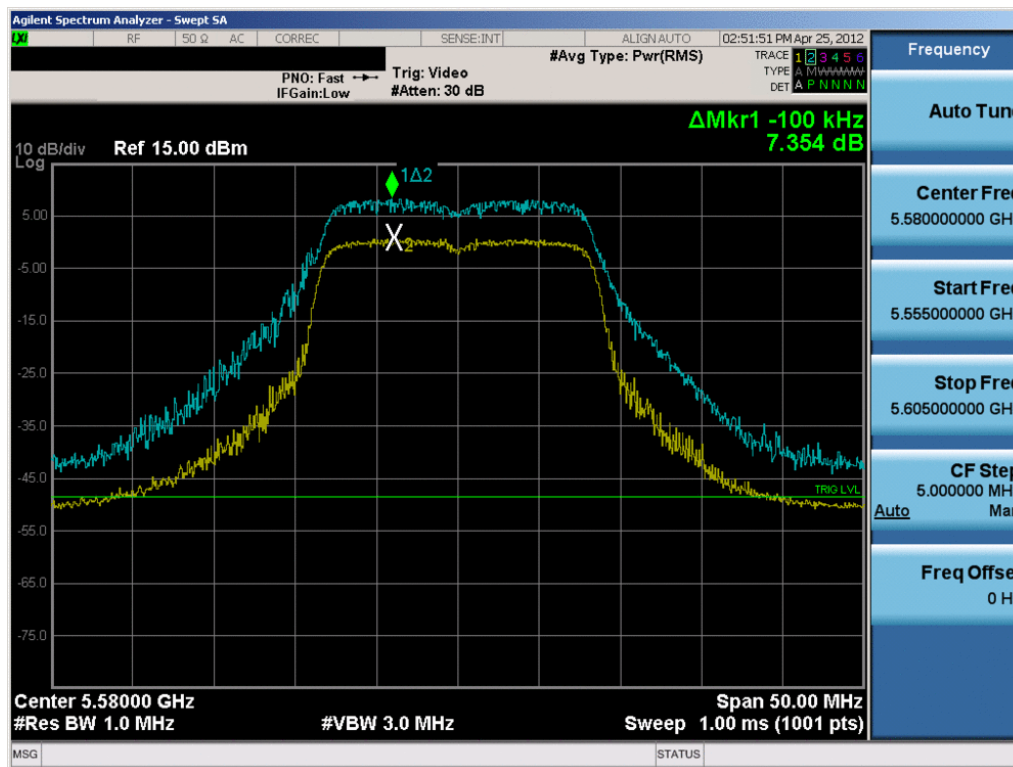


Plot 6-48. Peak Excursion Ratio Plot (802.11n (UNII Band 2) – Ch. 64)

FCC ID: A3LGTS7500W	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1204200540.A3L	Test Dates: 4/25/12 - 4/28/12	EUT Type: Portable Handset		Page 39 of 66

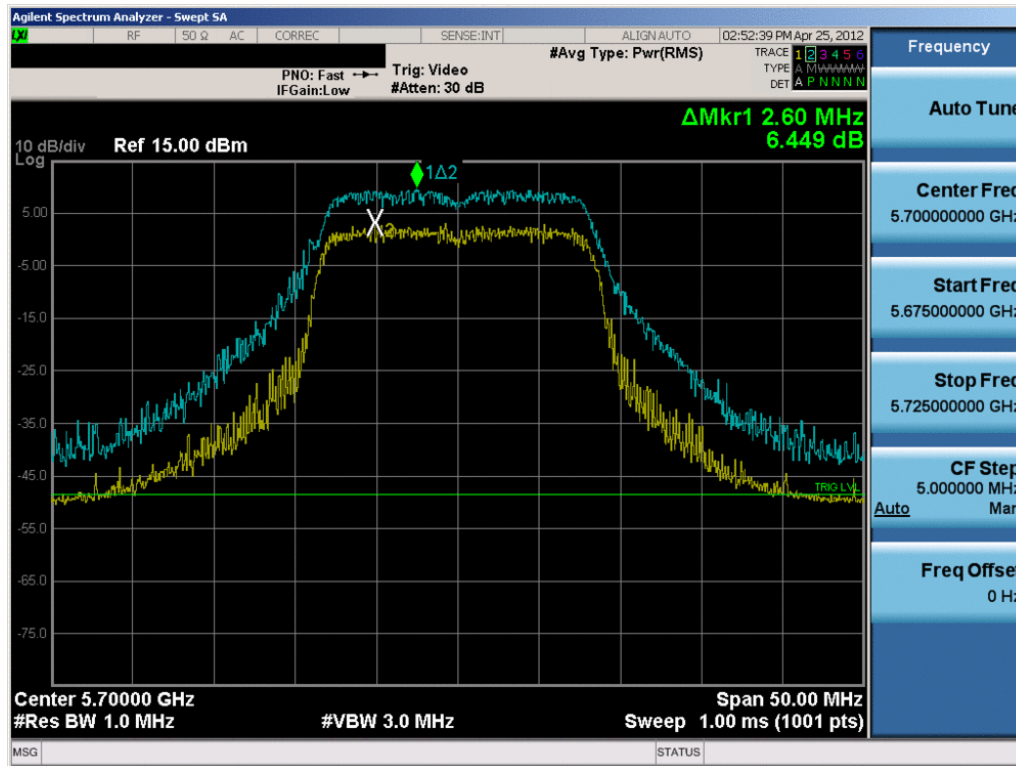


Plot 6-49. Peak Excursion Ratio Plot (802.11a (UNII Band 3) – Ch. 100)

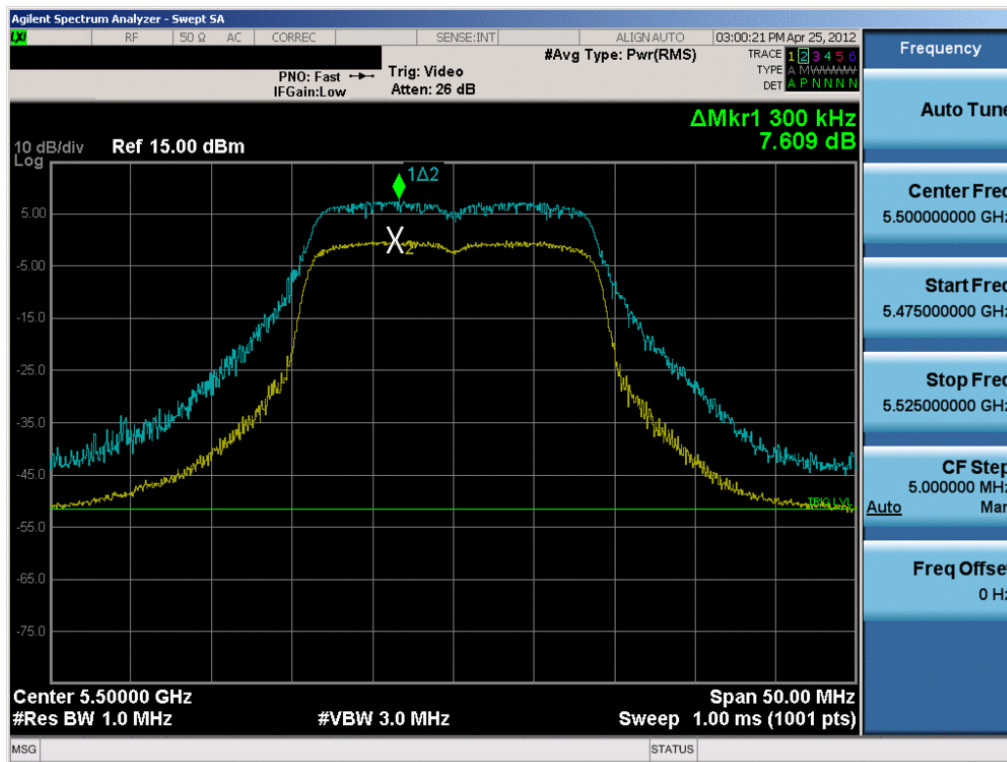


Plot 6-50. Peak Excursion Ratio Plot (802.11a (UNII Band 3) – Ch. 116)

FCC ID: A3LGTS7500W	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1204200540.A3L	Test Dates: 4/25/12 - 4/28/12	EUT Type: Portable Handset		Page 40 of 66

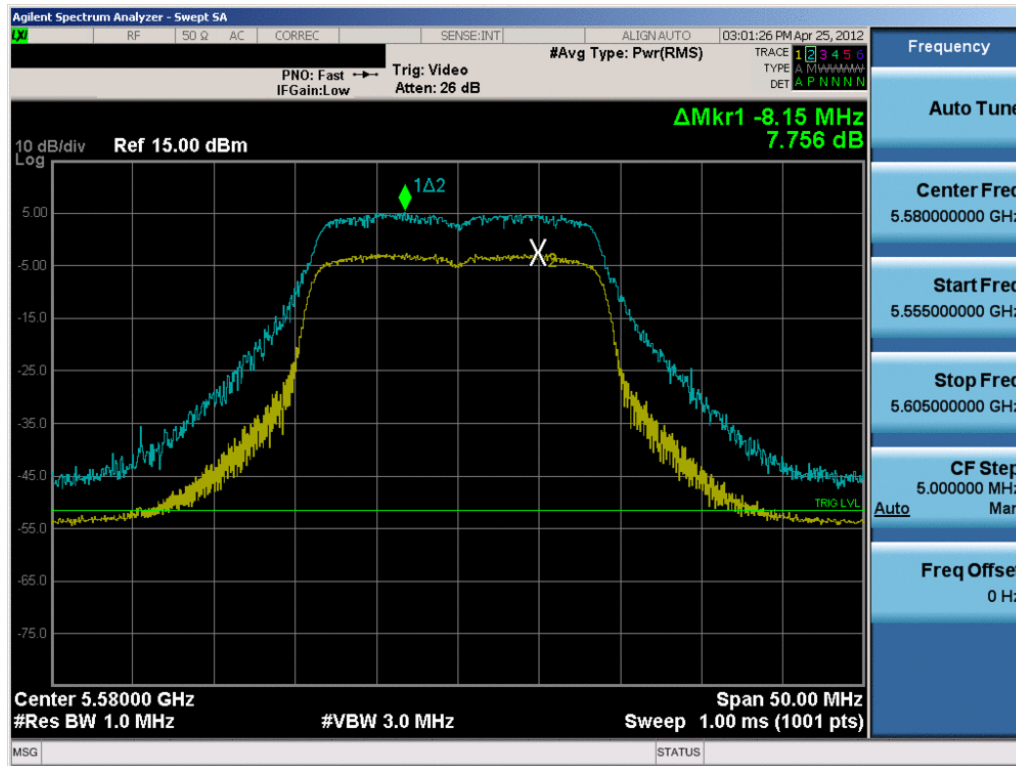


Plot 6-51. Peak Excursion Ratio Plot (802.11a (UNII Band 3) – Ch. 140)

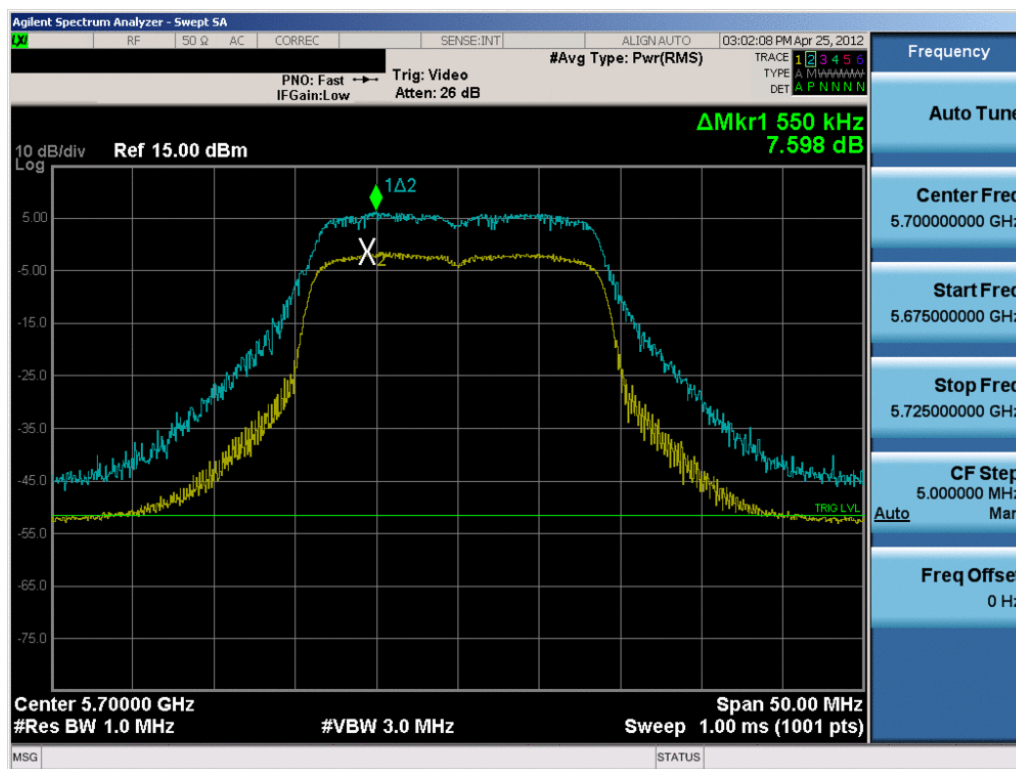


Plot 6-52. Peak Excursion Ratio Plot (802.11n (UNII Band 3) – Ch. 100)

FCC ID: A3LGTS7500W	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-53. Peak Excursion Ratio Plot (802.11n (UNII Band 3) – Ch. 116)



Plot 6-54. Peak Excursion Ratio Plot (802.11n (UNII Band 3) – Ch. 140)

FCC ID: A3LGTS7500W	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1204200540.A3L	Test Dates: 4/25/12 - 4/28/12	EUT Type: Portable Handset		Page 42 of 66

6.6 Frequency Stability

§15.407(g)

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

OPERATING FREQUENCY: 5,180,000,000 Hz

CHANNEL: 36

REFERENCE VOLTAGE: 3.7 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	5,179,999,981	-19	-0.0000004
100 %		- 30	5,179,999,987	-13	-0.0000003
100 %		- 20	5,179,999,989	-11	-0.0000002
100 %		- 10	5,179,999,997	-3	-0.0000001
100 %		0	5,179,999,987	-13	-0.0000003
100 %		+ 10	5,179,999,995	-5	-0.0000001
100 %		+ 20	5,179,999,995	-5	-0.0000001
100 %		+ 30	5,179,999,991	-9	-0.0000002
100 %		+ 40	5,179,999,996	-4	-0.0000001
100 %		+ 50	5,179,999,994	-6	-0.0000001
115 %	4.26	+ 20	5,179,999,986	-14	-0.0000003
BATT. ENDPOINT	3.40	+ 20	5,179,999,984	-16	-0.0000003

Table 6-7. Frequency Stability Measurements for UNII Band 1 (Ch. 36)

FCC ID: A3LGTS7500W		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1204200540.A3L	Test Dates: 4/25/12 - 4/28/12	EUT Type: Portable Handset	Page 43 of 66	

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: 3.7 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	5,259,999,992	-8	-0.0000002
100 %		- 30	5,259,999,986	-14	-0.0000003
100 %		- 20	5,259,999,987	-13	-0.0000002
100 %		- 10	5,260,000,004	4	0.0000001
100 %		0	5,260,000,008	8	0.0000002
100 %		+ 10	5,259,999,982	-18	-0.0000003
100 %		+ 20	5,259,999,988	-12	-0.0000002
100 %		+ 30	5,259,999,990	-10	-0.0000002
100 %		+ 40	5,259,999,997	-3	-0.0000001
100 %		+ 50	5,259,999,992	-8	-0.0000001
115 %	4.26	+ 20	5,259,999,987	-13	-0.0000002
BATT. ENDPOINT	3.40	+ 20	5,259,999,994	-6	-0.0000001

Table 6-8. Frequency Stability Measurements for UNII Band 2 (Ch. 52)

FCC ID: A3LGTS7500W		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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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: 3.7 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.70	+ 20 (Ref)	5,499,999,991	-9	-0.0000002
100 %		- 30	5,499,999,981	-19	-0.0000003
100 %		- 20	5,499,999,999	-1	0.0000000
100 %		- 10	5,499,999,990	-10	-0.0000002
100 %		0	5,499,999,983	-17	-0.0000003
100 %		+ 10	5,499,999,998	-2	0.0000000
100 %		+ 20	5,499,999,994	-6	-0.0000001
100 %		+ 30	5,499,999,995	-5	-0.0000001
100 %		+ 40	5,499,999,980	-20	-0.0000004
100 %		+ 50	5,499,999,988	-12	-0.0000002
115 %	4.26	+ 20	5,499,999,993	-7	-0.0000001
BATT. ENDPOINT	3.40	+ 20	5,499,999,981	-19	-0.0000003

Table 6-9. Frequency Stability Measurements for UNII Band 3 (Ch. 100)

FCC ID: A3LGTS7500W		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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6.7 Radiated Spurious Emission Measurements

§15.407(b)(1), (6), §15.205, §15.209; RSS-210 [A9.2]

The EUT was tested from 9kHz and up to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average measurements were taken using RBW = 1MHz and VBW = 10Hz. Peak measurements were taken using RBW = VBW = 1MHz and linearly polarized horn antennas. 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 6-10 per Section 15.209.

All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section. All measurements shown in this section were obtained using traditional radiated test methods as defined in C63.10-2009. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of

KDB 789033 were not used to evaluate this device.

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

Table 6-10. Radiated Limits

Sample Calculation

- o Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- o AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- o Margin [dB] = Field Strength Level [dBμV/m] – Limit [dBμV/m]

FCC ID: A3LGTS7500W		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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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: 3 meter

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	-95.02	Peak	H	45.40	57.37	68.20	-10.83
* 15540.00	-135.00	Average	H	55.99	27.99	53.98	-25.99
* 15540.00	-125.00	Peak	H	55.99	37.99	73.98	-35.99
* 20720.00	-135.00	Average	H	42.21	14.21	53.98	-39.77
* 20720.00	-125.00	Peak	H	42.21	24.21	73.98	-49.77
25900.00	-125.00	Peak	H	42.77	24.77	68.20	-43.43

Table 6-11. Radiated Measurements @ 3 meter

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBμV/m.
- 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 6-10.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz and VBW = 10Hz ("Method VB") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

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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: 3 meter

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	-97.54	Peak	H	45.42	54.88	68.20	-13.32
* 15600.00	-135.00	Average	H	56.13	28.13	53.98	-25.85
* 15600.00	-125.00	Peak	H	56.13	38.13	73.98	-35.85
* 20800.00	-135.00	Average	H	42.12	14.12	53.98	-39.85
* 20800.00	-125.00	Peak	H	42.12	24.12	73.98	-49.85
26000.00	-125.00	Peak	H	42.81	24.81	68.20	-43.39

Table 6-12. Radiated Measurements @ 3 meters

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m).
- 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 6-10.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz and VBW = 10Hz ("Method VB") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

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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: 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	-98.39	Peak	H	45.42	54.03	68.20	-14.17
* 15720.00	-135.00	Average	H	56.36	28.36	53.98	-25.61
* 15720.00	-125.00	Peak	H	56.36	38.36	73.98	-35.61
* 20960.00	-135.00	Average	H	41.95	13.95	53.98	-40.03
* 20960.00	-125.00	Peak	H	41.95	23.95	73.98	-50.03
26200.00	-125.00	Peak	H	42.70	24.70	68.20	-43.50

Table 6-13. Radiated Measurements @ 3 meters

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m).
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 6-10.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz and VBW = 10Hz ("Method VB") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

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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: 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	-99.60	Peak	H	45.50	52.90	68.20	-15.30
* 15780.00	-135.00	Average	H	56.56	28.56	53.98	-25.42
* 15780.00	-125.00	Peak	H	56.56	38.56	73.98	-35.42
* 21040.00	-135.00	Average	H	42.01	14.01	53.98	-39.97
* 21040.00	-125.00	Peak	H	42.01	24.01	73.98	-49.97
26300.00	-125.00	Peak	H	42.74	24.74	68.20	-43.46

Table 6-14. Radiated Measurements @ 3 meters

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m).
- 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 6-10.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz and VBW = 10Hz ("Method VB") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

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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: 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	-99.21	Peak	H	45.50	53.29	68.20	-14.91
* 15840.00	-135.00	Average	H	56.67	28.67	53.98	-25.31
* 15840.00	-125.00	Peak	H	56.67	38.67	73.98	-35.31
* 21120.00	-135.00	Average	H	42.01	14.01	53.98	-39.97
* 21120.00	-125.00	Peak	H	42.01	24.01	73.98	-49.97
26400.00	-125.00	Peak	H	42.69	24.69	68.20	-43.51

Table 6-15. Radiated Measurements @ 3 meters

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m).
- 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 6-10.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz and VBW = 10Hz ("Method VB") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

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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: 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	-113.84	Average	H	45.59	38.75	53.98	-15.23
*	10640.00	-99.69	Peak	H	45.59	52.90	73.98	-21.08
*	15960.00	-135.00	Average	H	57.15	29.15	53.98	-24.83
*	15960.00	-125.00	Peak	H	57.15	39.15	73.98	-34.83
*	21280.00	-135.00	Average	H	42.03	14.03	53.98	-39.95
*	21280.00	-125.00	Peak	H	42.03	24.03	73.98	-49.95
	26600.00	-125.00	Peak	H	42.63	24.63	68.20	-43.57

Table 6-16. Radiated Measurements @ 3 meters

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m).
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 6-10.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz and VBW = 10Hz ("Method VB") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

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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: 3 meters

Operating Frequency: 5500MHz

Channel: 100

	Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11000.00	-114.49	Average	H	45.42	37.93	53.98	-16.05
*	11000.00	-100.00	Peak	H	45.42	52.42	73.98	-21.56
	16500.00	-125.00	Peak	H	55.80	37.80	68.20	-30.40
	22000.00	-125.00	Peak	H	42.32	24.32	68.20	-43.88
	27500.00	-125.00	Peak	H	42.66	24.66	68.20	-43.54

Table 6-17. Radiated Measurements @ 3 meters

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m).
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 6-10.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz and VBW = 10Hz ("Method VB") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

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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: 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	-113.81	Average	H	45.78	38.97	53.98	-15.01
*	11160.00	-100.03	Peak	H	45.78	52.75	73.98	-21.23
	16740.00	-125.00	Peak	H	55.59	37.59	68.20	-30.61
*	22320.00	-135.00	Average	H	42.43	14.43	53.98	-39.55
*	22320.00	-125.00	Peak	H	42.43	24.43	73.98	-49.55
	27900.00	-125.00	Peak	H	42.70	24.70	68.20	-43.50

Table 6-18. Radiated Measurements @ 3 meters

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m).
- 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 6-10.
- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz and VBW = 10Hz ("Method VB") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

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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: 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	-114.67	Average	H	46.38	38.71	53.98	-15.27
*	11400.00	-100.11	Peak	H	46.38	53.27	73.98	-20.71
	17100.00	-125.00	Peak	H	54.48	36.48	68.20	-31.72
*	22800.00	-135.00	Average	H	42.60	14.60	53.98	-39.38
*	22800.00	-125.00	Peak	H	42.60	24.60	73.98	-49.38
	28500.00	-125.00	Peak	H	42.68	24.68	68.20	-43.52

Table 6-19. Radiated Measurements @ 3 meters

NOTES:

1. All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dBμV/m).
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 6-10.
3. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz and VBW = 10Hz ("Method VB") per KDB 789033.
4. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
5. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
6. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
7. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
8. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

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6.8 Radiated Band Edge 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 [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5044.79	-107.84	Average	H	39.00	38.16	53.98	-15.82
5044.79	-93.14	Peak	H	39.00	52.86	73.98	-21.12
5129.17	-107.18	Average	H	39.15	38.97	53.98	-15.01
5129.17	-92.66	Peak	H	39.15	53.49	73.98	-20.49
5250.00	-101.46	Average	H	39.40	44.94	53.98	-9.04
5250.00	-78.70	Peak	H	39.40	67.70	73.98	-6.28

Table 6-20. Radiated Restricted Band Measurements at 3-meter (4.5 – 5.15GHz)

NOTES:

- For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz and VBW = 10Hz ("Method VB") per KDB 789033.
- The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
- The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
- Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
- Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

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Radiated Band Edge 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: 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]
5353.17	-103.59	Average	H	39.61	43.02	53.98	-10.96
5353.17	-87.75	Peak	H	39.61	58.86	73.98	-15.12
5355.82	-103.84	Average	H	39.62	42.78	53.98	-11.20
5355.82	-88.73	Peak	H	39.62	57.89	73.98	-16.09
5362.69	-104.47	Average	H	39.63	42.17	53.98	-11.81
5362.69	-90.18	Peak	H	39.63	56.46	73.98	-17.52

Table 6-21. Radiated Restricted Band Measurements at 3-meter (5.35 – 5.46GHz, 5.46 – 5.47GHz)

NOTES:

1. Emissions within 5.35 – 5.46GHz lie in a restricted band and are subject to the radiated emissions limits specified in §15.209. Emission within 5.46 – 5.47GHz are at the lower band edge of UNII Band 3 transmission and are subject to the -27dBm/MHz (68.2dBμV/m) EIRP limit specified in §15.407.
2. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz and VBW = 10Hz ("Method VB") per KDB 789033.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted band specified in §15.205.

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Radiated Band Edge 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: 3 meters

Operating Frequency: 5500MHz

Channel: 100

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
5446.25	-107.65	Average	H	39.80	39.15	53.98	-14.83
5446.25	-92.45	Peak	H	39.80	54.35	73.98	-19.63
5460.00	-105.92	Average	H	39.83	40.91	53.98	-13.07
5460.00	-92.17	Peak	H	39.83	54.66	73.98	-19.32
5468.84	-89.51	Peak	H	39.85	57.33	68.20	-10.87

Table 6-22. Radiated Restricted Band Measurements at 3-meter (5.35 – 5.46GHz, 5.46 – 5.47GHz)

NOTES:

1. Emissions within 5.35 – 5.46GHz lie in a restricted band and are subject to the radiated emissions limits specified in §15.209. Emission within 5.46 – 5.47GHz are at the lower band edge of UNII Band 3 transmission and are subject to the -27dBm/MHz (68.2dBμV/m) EIRP limit specified in §15.407.
2. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz and VBW = 10Hz ("Method VB") per KDB 789033.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
6. Levels at -135 dBm represent the analyzer noise floor and signify that no emission was detected.
7. Above 960MHz the limit is 500 μV/m (54dBμV/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

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Radiated Band Edge 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: 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]
5725.52	-89.10	Peak	H	40.10	48.46	68.20	-19.74
5726.84	-90.29	Peak	H	40.10	56.82	68.20	-11.38
5728.37	-90.84	Peak	H	40.10	56.27	68.20	-11.93

Table 6-23. Radiated Restricted Band Measurements at 3-meter

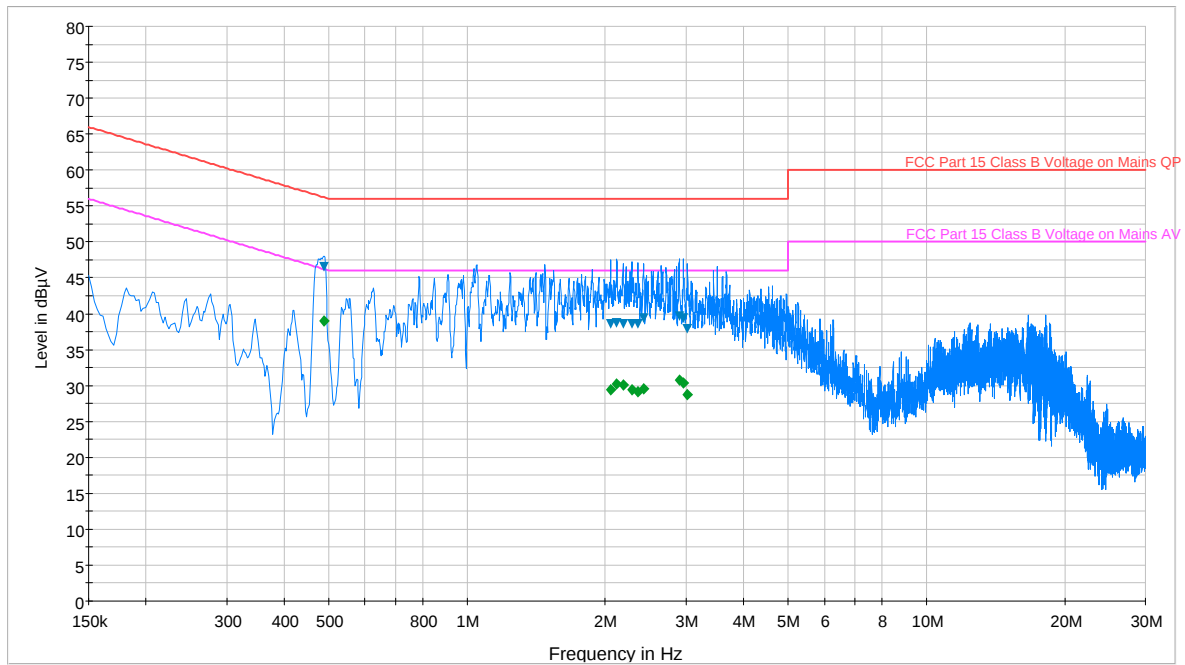
NOTES:

1. For frequencies above 1GHz, peak emissions are measured using RBW = 1MHz and VBW = 3MHz. Average emissions are measured using RBW = 1MHz and VBW = 10Hz ("Method VB") per KDB 789033.
2. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
3. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
4. The spectrum is measured from 9kHz to 40GHz and the worst-case emissions are reported. No significant emissions were found beyond the fifth harmonic for this device.
5. Levels at - 135 dBm represent the analyzer noise floor and signify that no emission was detected.
6. Above 960MHz the limit is 500 μV/m (54dBμ/m) at 3 meters radiated for emissions that lie in restricted bands specified in §15.205.

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6.9 Line-Conducted Test Data

§15.207; RSS-Gen [7.2.2]



— FCC Part 15 Class B Voltage on Mains QP.LimitLine — FCC Part 15 Class B Voltage on Mains AV.LimitLine — Preview Result 1-PK+
 ▼ Final Result 1-QPK ◆ Final Result 2-AVG

Plot 6-55. Line Conducted Plot with 802.11a (UNII Band 1 – L1)

Frequency MHz	Line	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.488	L1	46.60	56.20	9.60	38.90	46.20	7.30
2.056	L1	38.60	56.00	17.40	29.40	46.00	16.60
2.121	L1	38.70	56.00	17.30	30.30	46.00	15.70
2.189	L1	38.50	56.00	17.50	30.10	46.00	15.90
2.288	L1	38.60	56.00	17.40	29.40	46.00	16.60
2.355	L1	38.60	56.00	17.40	29.10	46.00	16.90
2.425	L1	39.50	56.00	16.50	29.50	46.00	16.50
2.897	L1	39.60	56.00	16.40	30.80	46.00	15.20
2.960	L1	39.30	56.00	16.70	30.40	46.00	15.60
3.021	L1	37.90	56.00	18.10	28.80	46.00	17.20

Table 6-24. Line Conducted Data with 802.11a (UNII Band 1 – L1)

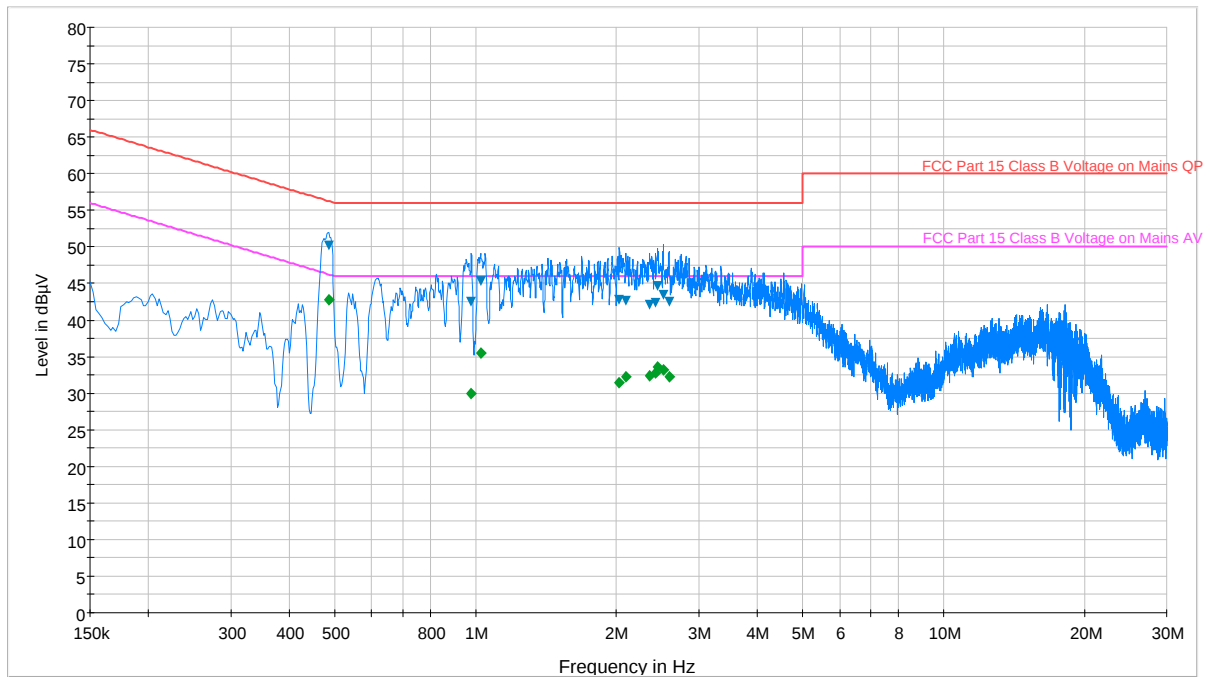
Notes:

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

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Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]



Plot 6-56. Line Conducted Plot with 802.11a (UNII Band 1 - N)

Frequency MHz	Line	QuasiPeak dBμV	Limit dBμV	Margin dB	Average dBμV	Limit dBμV	Margin dB
0.485	N	50.20	56.20	6.10	42.70	46.20	3.50
0.978	N	42.50	56.00	13.50	29.90	46.00	16.10
1.025	N	45.30	56.00	10.70	35.40	46.00	10.60
2.029	N	42.70	56.00	13.30	31.50	46.00	14.50
2.096	N	42.70	56.00	13.30	32.20	46.00	13.80
2.355	N	42.10	56.00	13.90	32.30	46.00	13.70
2.423	N	42.40	56.00	13.60	32.80	46.00	13.20
2.447	N	44.60	56.00	11.40	33.60	46.00	12.40
2.517	N	43.50	56.00	12.50	33.20	46.00	12.80
2.589	N	42.40	56.00	13.60	32.30	46.00	13.70

Table 6-25. Line Conducted Data with 802.11a (UNII Band 1 - N)

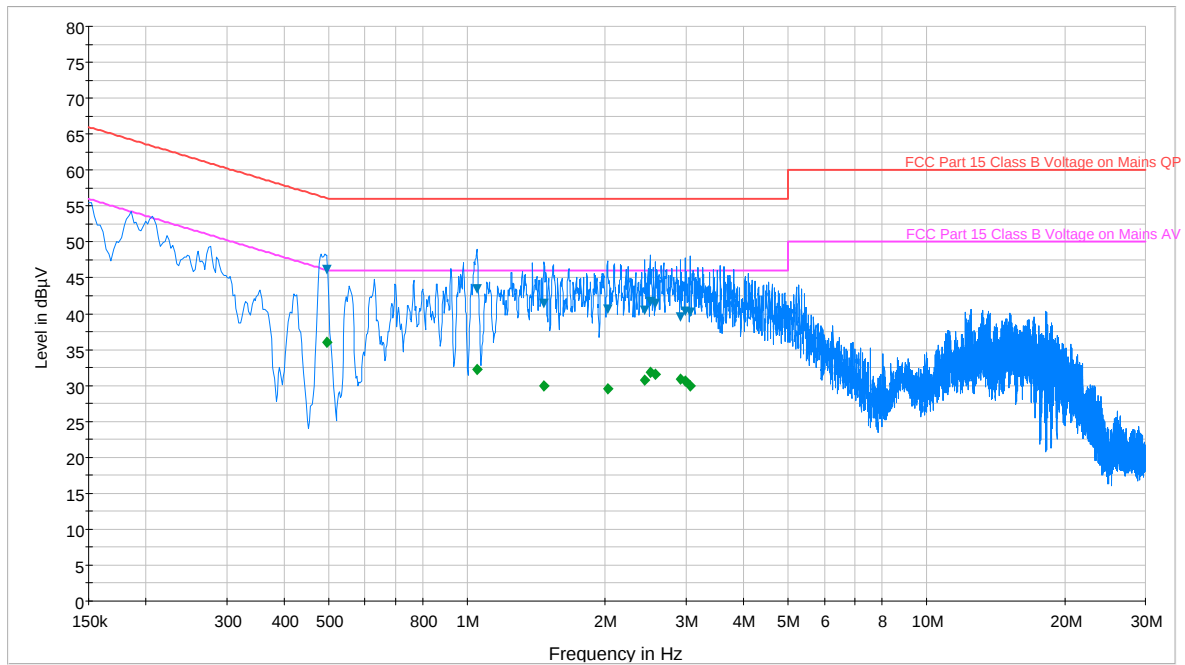
Notes:

- 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.
- Line L1 = Phase; Line N = Neutral
- Factor (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Factor (dB)
- Margin (dB) = Limit (dBμV) - QP/AV Level (dBμV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

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Line-Conducted Test Data (Cont'd)

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Plot 6-57. Line Conducted Plot with 802.11a (UNII Band 2 – L1)

Frequency MHz	Line	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.494	L1	46.20	56.10	9.90	36.10	46.10	10.00
1.050	L1	43.40	56.00	12.60	32.30	46.00	13.70
1.473	L1	41.40	56.00	14.60	30.00	46.00	16.00
2.022	L1	40.70	56.00	15.30	29.60	46.00	16.40
2.436	L1	40.50	56.00	15.50	30.70	46.00	15.30
2.506	L1	41.70	56.00	14.30	31.80	46.00	14.20
2.573	L1	41.50	56.00	14.50	31.60	46.00	14.40
2.918	L1	39.60	56.00	16.40	30.90	46.00	15.10
2.987	L1	40.40	56.00	15.60	30.70	46.00	15.30
3.059	L1	40.20	56.00	15.80	29.90	46.00	16.10

Table 6-26. Line Conducted Data with 802.11a (UNII Band 2 – L1)

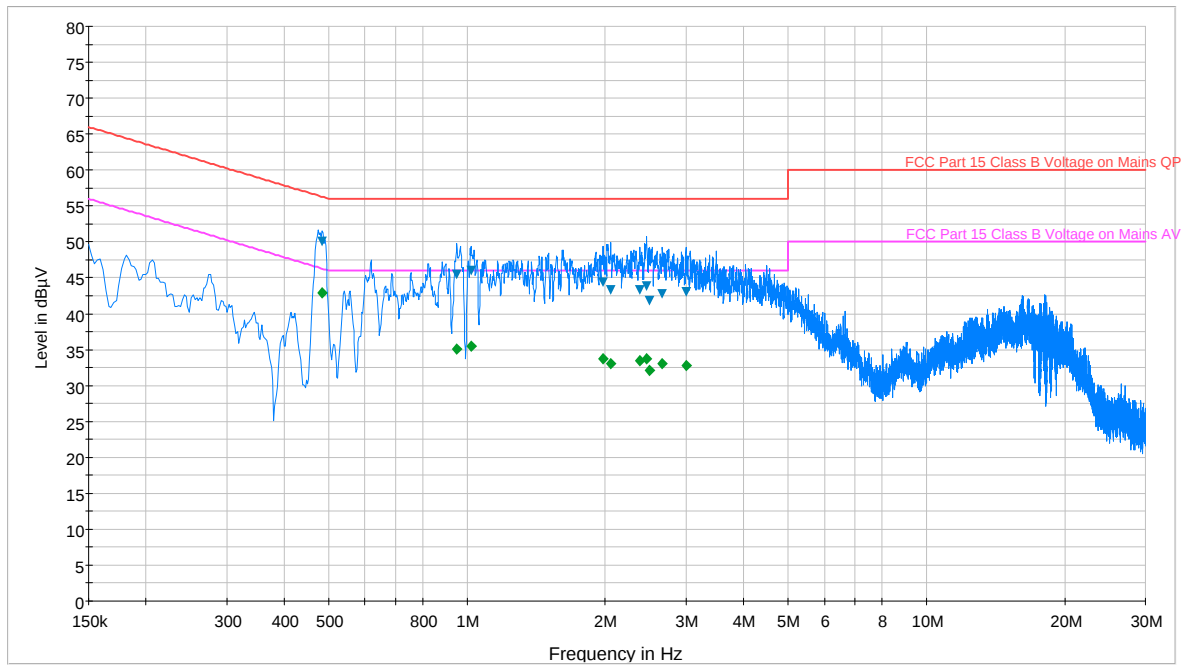
Notes:

- 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.
- Line L1 = Phase; Line N = Neutral
- Factor (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBµV) = QP/AV Analyzer/Receiver Level (dBµV) + Factor (dB)
- Margin (dB) = Limit (dBµV) - QP/AV Level (dBµV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

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Line-Conducted Test Data (Cont'd)

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— FCC Part 15 Class B Voltage on Mains QP.LimitLine — FCC Part 15 Class B Voltage on Mains AV.LimitLine — Preview Result 1-PK+
▼ Final Result 1-QPK ◆ Final Result 2-AVG

Plot 6-58. Line Conducted Plot with 802.11a (UNII Band 2 – N)

Frequency MHz	Line	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.483	N	50.00	56.30	6.30	42.90	46.30	3.40
0.951	N	45.50	56.00	10.50	35.10	46.00	10.90
1.021	N	46.00	56.00	10.00	35.50	46.00	10.50
1.977	N	44.40	56.00	11.60	33.70	46.00	12.30
2.058	N	43.30	56.00	12.70	33.10	46.00	12.90
2.380	N	43.40	56.00	12.60	33.50	46.00	12.50
2.461	N	43.80	56.00	12.20	33.70	46.00	12.30
2.501	N	41.80	56.00	14.20	32.10	46.00	13.90
2.663	N	42.80	56.00	13.20	33.10	46.00	12.90
2.996	N	43.10	56.00	12.90	32.80	46.00	13.20

Table 6-27. Line Conducted Data with 802.11a (UNII Band 2 – N)

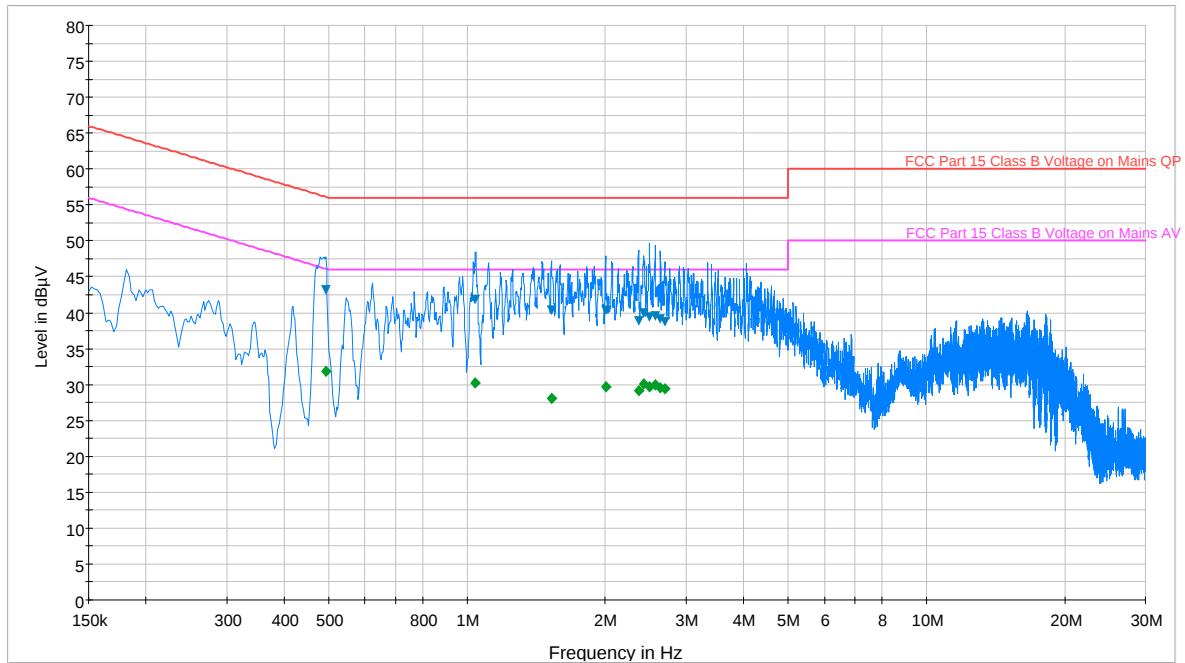
Notes:

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

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Line-Conducted Test Data (Cont'd)

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— FCC Part 15 Class B Voltage on Mains QP.LimitLine — FCC Part 15 Class B Voltage on Mains AV.LimitLine — Preview Result 1-PK+
▼ Final Result 1-QPK ◆ Final Result 2-AVG

Plot 6-59. Line Conducted Plot with 802.11a (UNII Band 3 – L1)

Frequency MHz	Line	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.492	L1	43.20	56.10	12.90	31.90	46.10	14.20
1.043	L1	41.90	56.00	14.10	30.30	46.00	15.70
1.525	L1	40.30	56.00	15.70	28.00	46.00	18.00
2.002	L1	40.40	56.00	15.60	29.60	46.00	16.40
2.362	L1	38.90	56.00	17.10	29.10	46.00	16.90
2.423	L1	40.00	56.00	16.00	30.10	46.00	15.90
2.499	L1	39.50	56.00	16.50	29.60	46.00	16.40
2.567	L1	39.50	56.00	16.50	29.90	46.00	16.10
2.636	L1	39.20	56.00	16.80	29.60	46.00	16.40
2.695	L1	38.80	56.00	17.20	29.40	46.00	16.60

Table 6-28. Line Conducted Data with 802.11a (UNII Band 3 – L1)

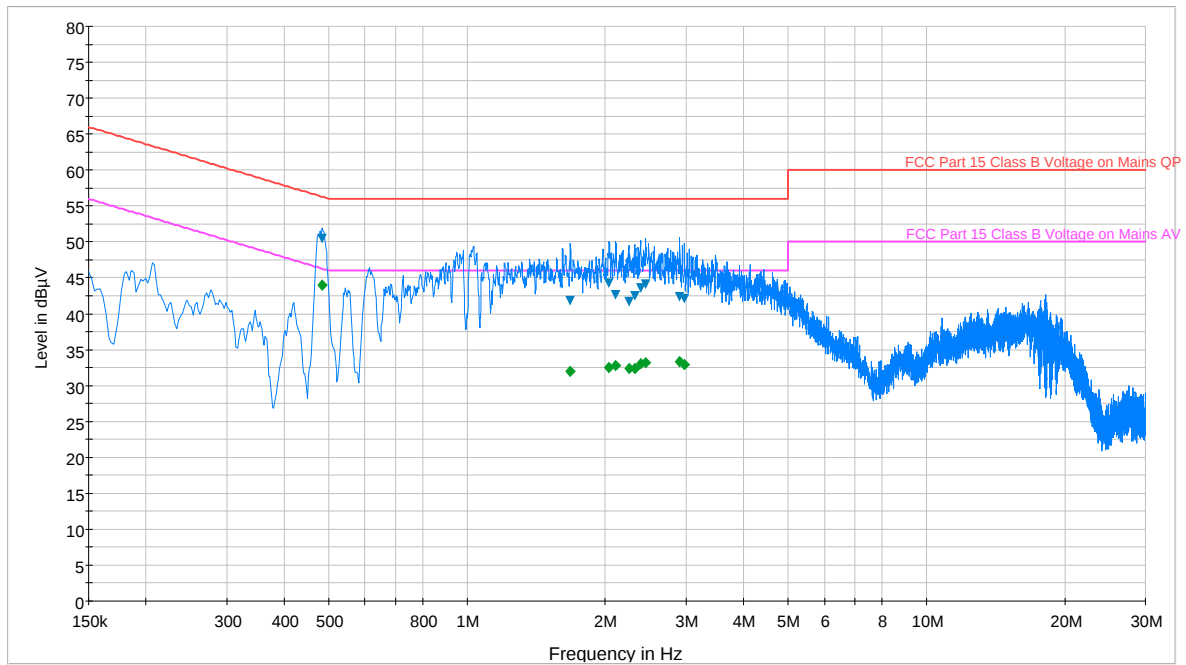
Notes:

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

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Line-Conducted Test Data (Cont'd)

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Plot 6-60. Line Conducted Plot with 802.11a (UNII Band 3 – N)

Frequency MHz	Line	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.483	N	50.50	56.30	5.80	44.00	46.30	2.30
1.680	N	41.90	56.00	14.10	32.00	46.00	14.00
2.040	N	44.20	56.00	11.80	32.50	46.00	13.50
2.108	N	42.70	56.00	13.30	32.70	46.00	13.30
2.249	N	41.60	56.00	14.40	32.40	46.00	13.60
2.319	N	42.50	56.00	13.50	32.40	46.00	13.60
2.387	N	43.60	56.00	12.40	33.10	46.00	12.90
2.447	N	44.10	56.00	11.90	33.20	46.00	12.80
2.906	N	42.30	56.00	13.70	33.30	46.00	12.70
2.974	N	42.00	56.00	14.00	33.00	46.00	13.00

Table 6-29. Line Conducted Data with 802.11a (UNII Band 3 – 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.
- Line L1 = Phase; Line N = Neutral
- Factor (dB) = Cable loss (dB) + LISN insertion factor (dB)
- QP/AV Level (dBµV) = QP/AV Analyzer/Receiver Level (dBµV) + Factor (dB)
- Margin (dB) = Limit (dBµV) - QP/AV Level (dBµV)
- Traces shown in plot are made using a peak detector.
- Deviations to the Specifications: None.

FCC ID: A3LGTS7500W	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LGTS7500W** is in compliance with Part 15E of the FCC Rules and RSS-210 of the Industry Canada Rules..

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