

6.4 Peak Power Spectral Density – 802.11a/n §15.407 (a)(1),(5) / RSS-210 [A9.2]

The spectrum analyzer was connected to the antenna terminal while the EUT was operating in a continuous transmission mode at the appropriate center frequencies. Method SA-1, as defined in KDB 789033, was used to measure the power spectral density. **The maximum permissible peak power spectral density is 4dBm/MHz in the 5.15GHz – 5.25GHz band and 11dBm/MHz in the 5.25GHz – 5.35 GHz and 5.47 – 5.725GHz bands.**

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Power Density [dBm]	Max Permissible Power Density [dBm/MHz]	Margin [dB]
Band I	5180	36	a	6	-2.242	4.0	-6.24
	5200	40	a	6	-2.089	4.0	-6.09
	5240	48	a	6	-2.354	4.0	-6.35
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	-2.565	4.0	-6.57
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	-2.487	4.0	-6.49
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	-2.503	4.0	-6.50
	5190	38	n (40MHz)	13.5/15 (MCS0)	-4.741	4.0	-8.74
	5230	46	n (40MHz)	13.5/15 (MCS0)	-4.950	4.0	-8.95
Band II	5260	52	a	6	-2.272	11.0	-13.27
	5280	56	a	6	-2.064	11.0	-13.06
	5320	64	a	6	-2.176	11.0	-13.18
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	-2.361	11.0	-13.36
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	-2.387	11.0	-13.39
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	-2.362	11.0	-13.36
	5270	50	n (40MHz)	13.5/15 (MCS0)	-4.932	11.0	-15.93
	5310	62	n (40MHz)	13.5/15 (MCS0)	-5.004	11.0	-16.00
Band III	5500	100	a	6	-2.418	11.0	-13.42
	5580	116	a	6	-2.104	11.0	-13.10
	5700	140	a	6	-3.166	11.0	-14.17
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	-2.665	11.0	-13.67
	5580	116	n (20MHz)	6.5/7.2 (MCS0)	-2.017	11.0	-13.02
	5700	140	n (20MHz)	6.5/7.2 (MCS0)	-2.895	11.0	-13.90
	5510	102	n (40MHz)	13.5/15 (MCS0)	-5.304	11.0	-16.30
	5550	110	n (40MHz)	13.5/15 (MCS0)	-5.379	11.0	-16.38
	5670	134	n (40MHz)	13.5/15 (MCS0)	-6.176	11.0	-17.18

Table 6-6. Conducted Power Spectral Density Measurements

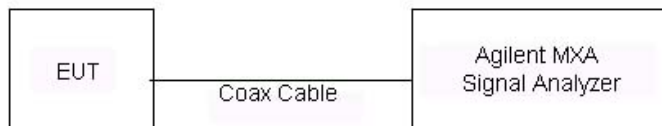
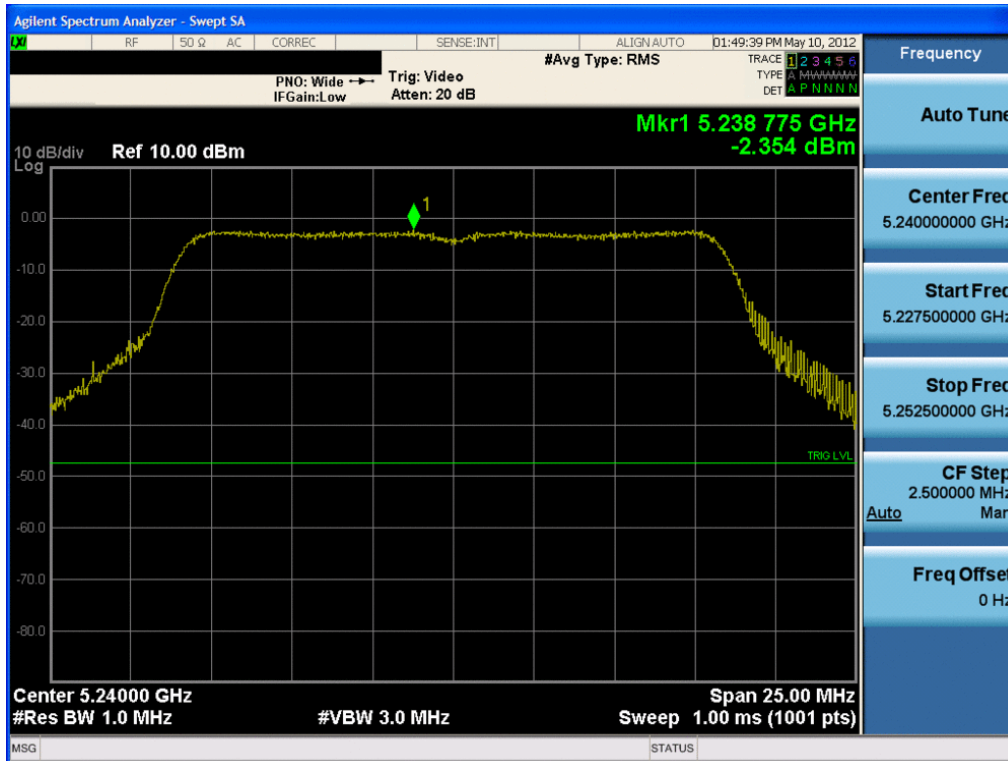
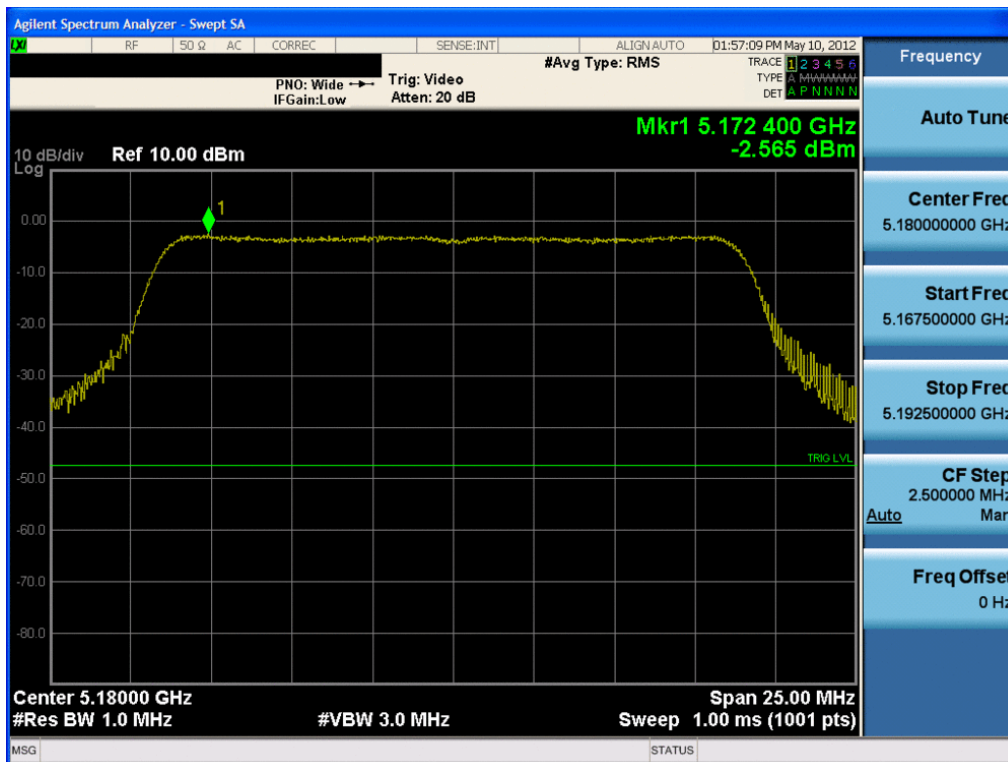


Figure 6-3. Test Instrument & Measurement Setup

FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset	Page 27 of 78	

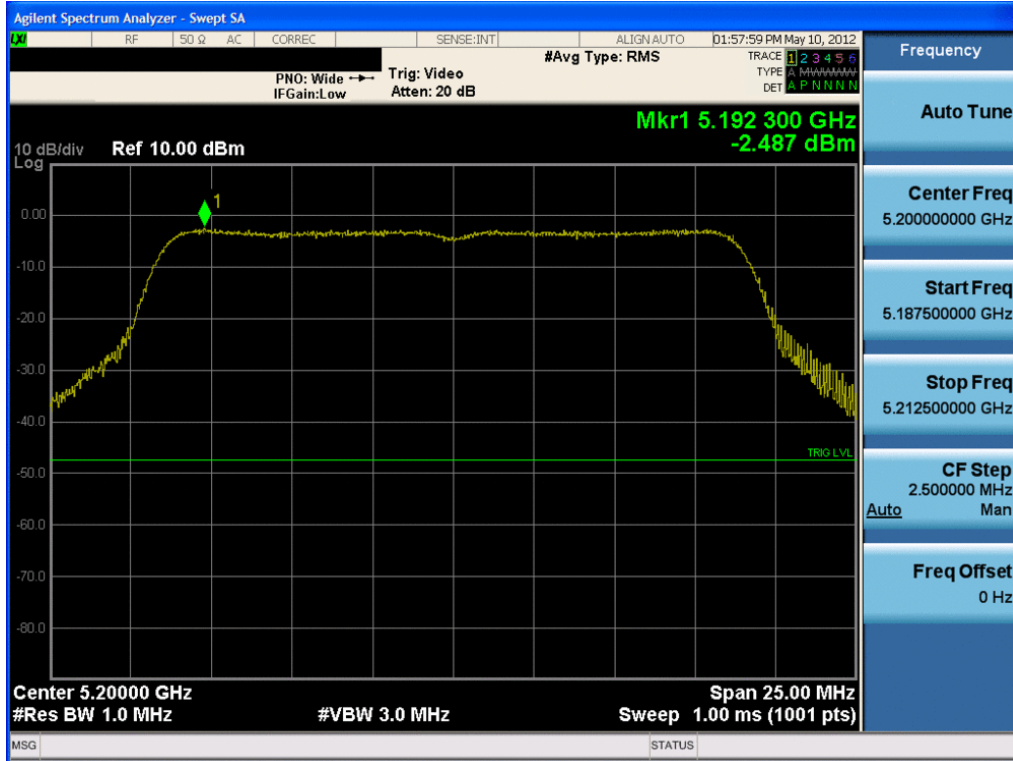


Plot 6-28. Peak Power Spectral Density Plot (802.11a (UNII Band 1) – Ch. 48)

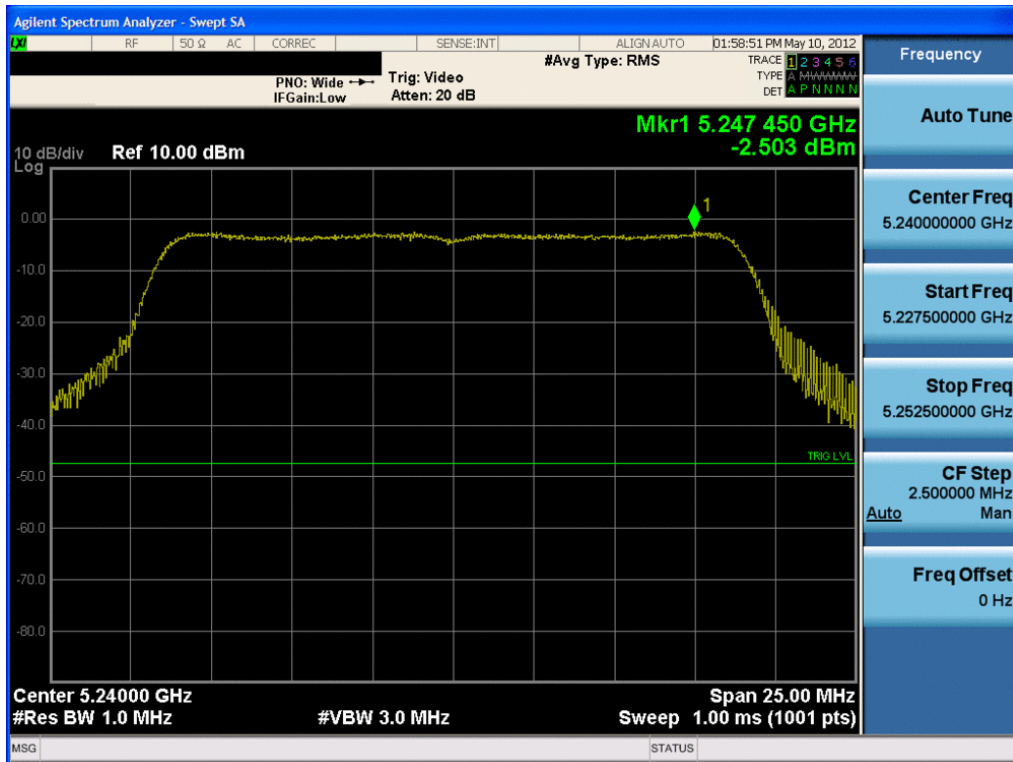


Plot 6-29. Peak Power Spectral Density Plot (802.11n – 20MHz BW (UNII Band 1) – Ch. 36)

FCC ID: A3LSWDSC06D	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 29 of 78

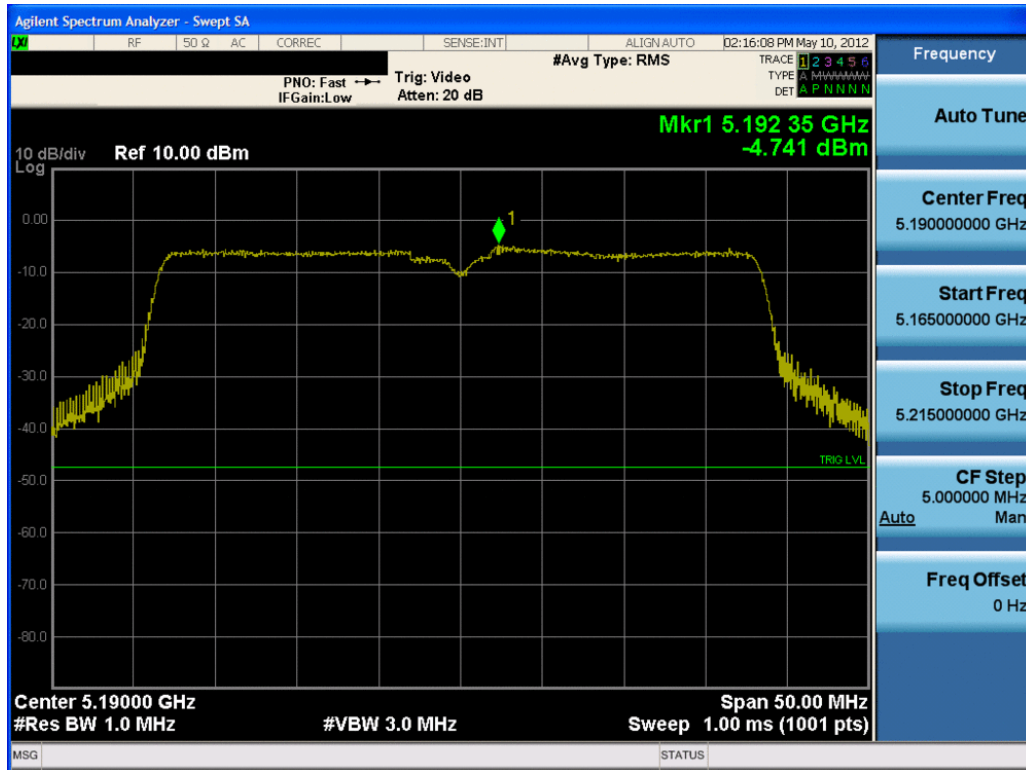


Plot 6-30. Peak Power Spectral Density Plot (802.11n – 20MHz BW (UNII Band 1) – Ch. 40)

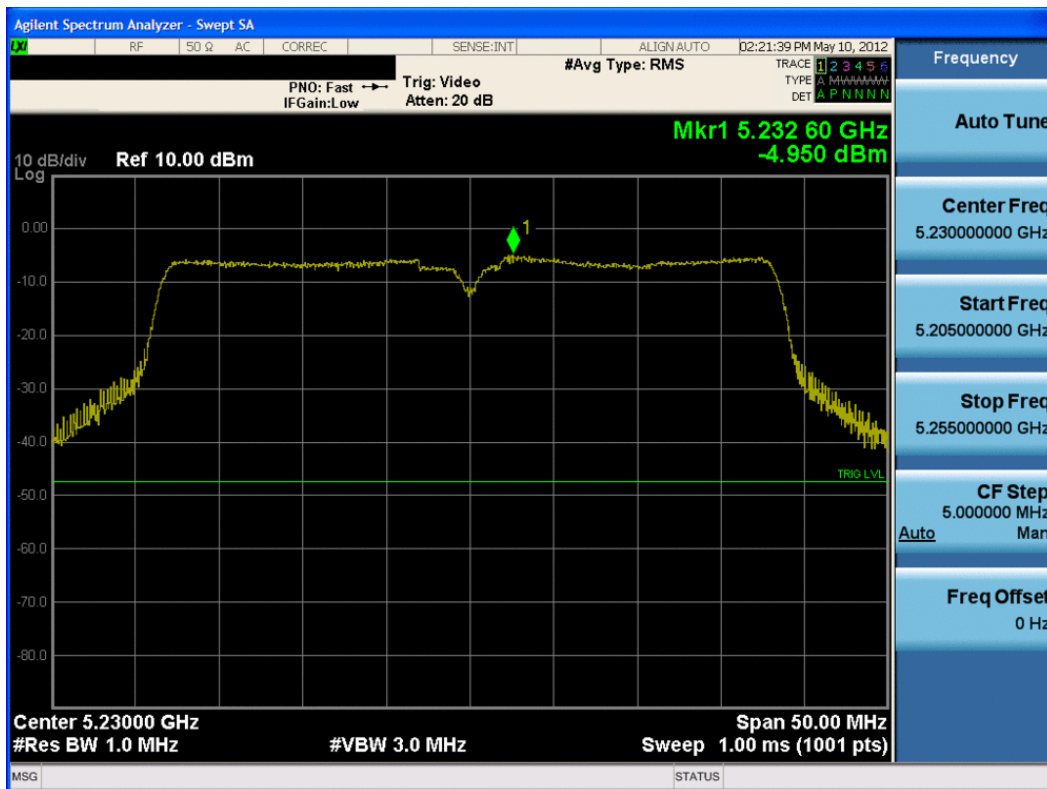


Plot 6-31. Peak Power Spectral Density Plot (802.11n – 20MHz BW (UNII Band 1) – Ch. 48)

FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 30 of 78

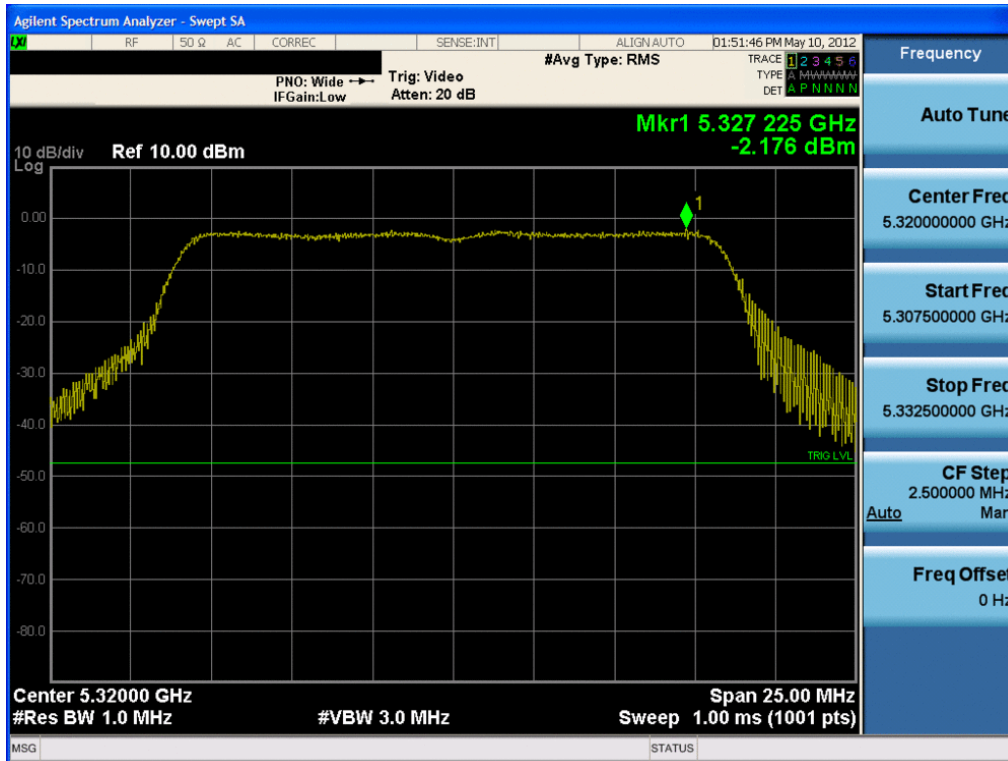


Plot 6-32. Peak Power Spectral Density Plot (802.11n – 40MHz BW (UNII Band 1) – Ch. 38)

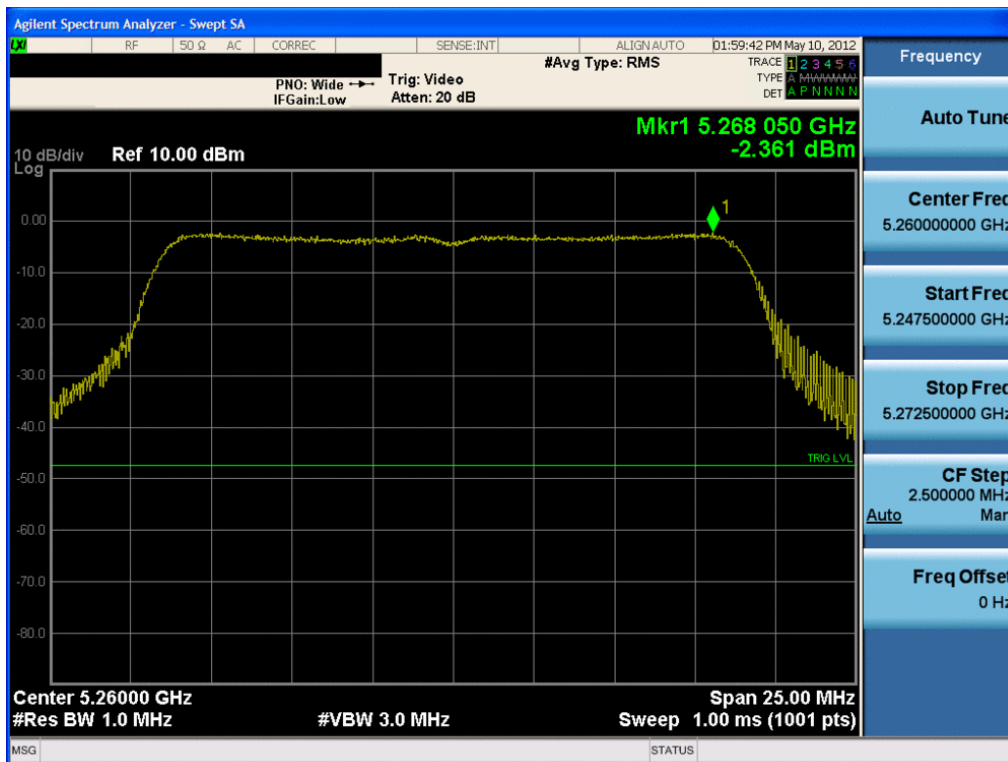


Plot 6-33. Peak Power Spectral Density Plot (802.11n – 40MHz BW (UNII Band 1) – Ch. 46)

FCC ID: A3LSWDSC06D	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 31 of 78

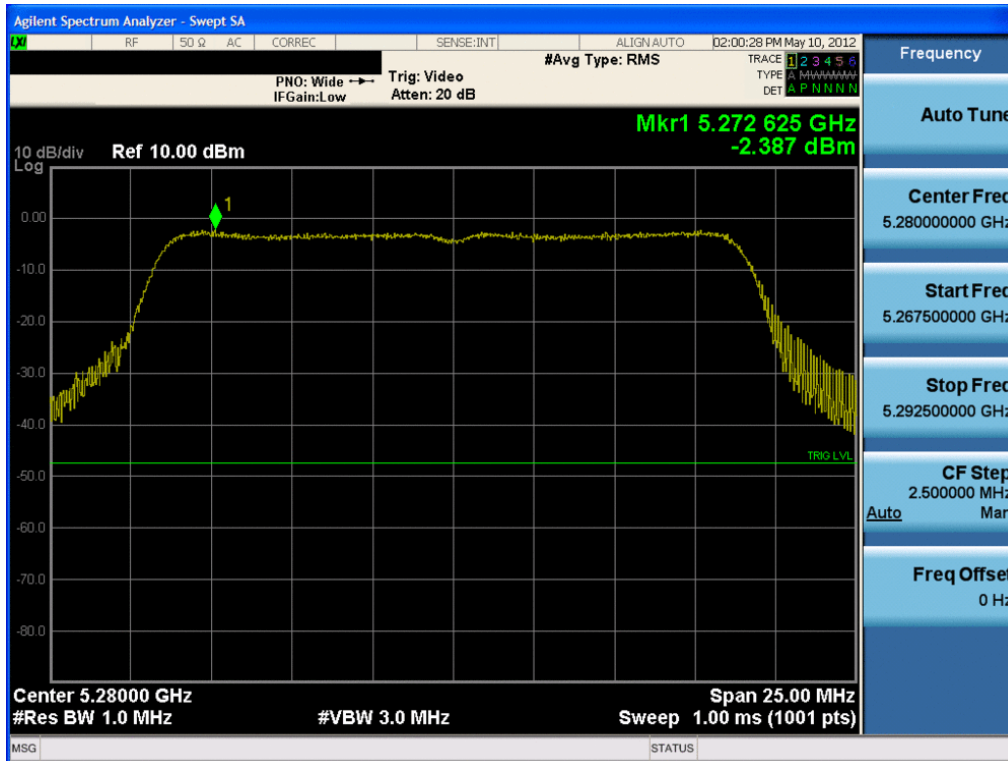


Plot 6-36. Peak Power Spectral Density Plot (802.11a (UNII Band 2) – Ch. 64)

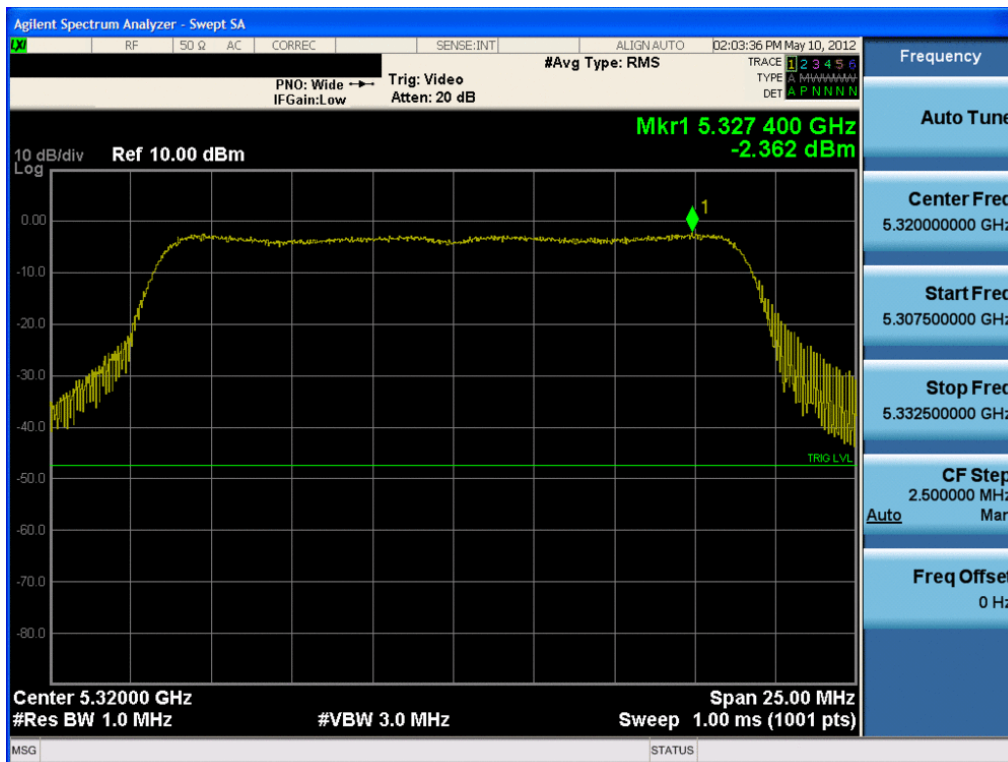


Plot 6-37. Peak Power Spectral Density Plot (802.11n – 20MHz BW (UNII Band 2) – Ch. 52)

FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 33 of 78

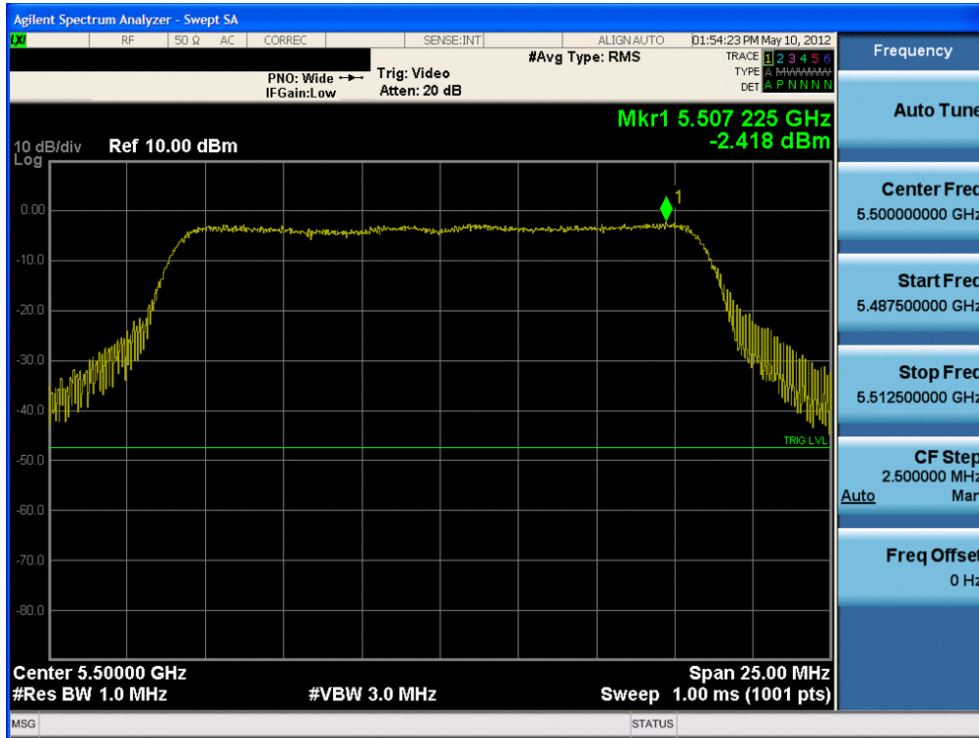


Plot 6-38. Peak Power Spectral Density Plot (802.11n – 20MHz BW (UNII Band 2) – Ch. 56)

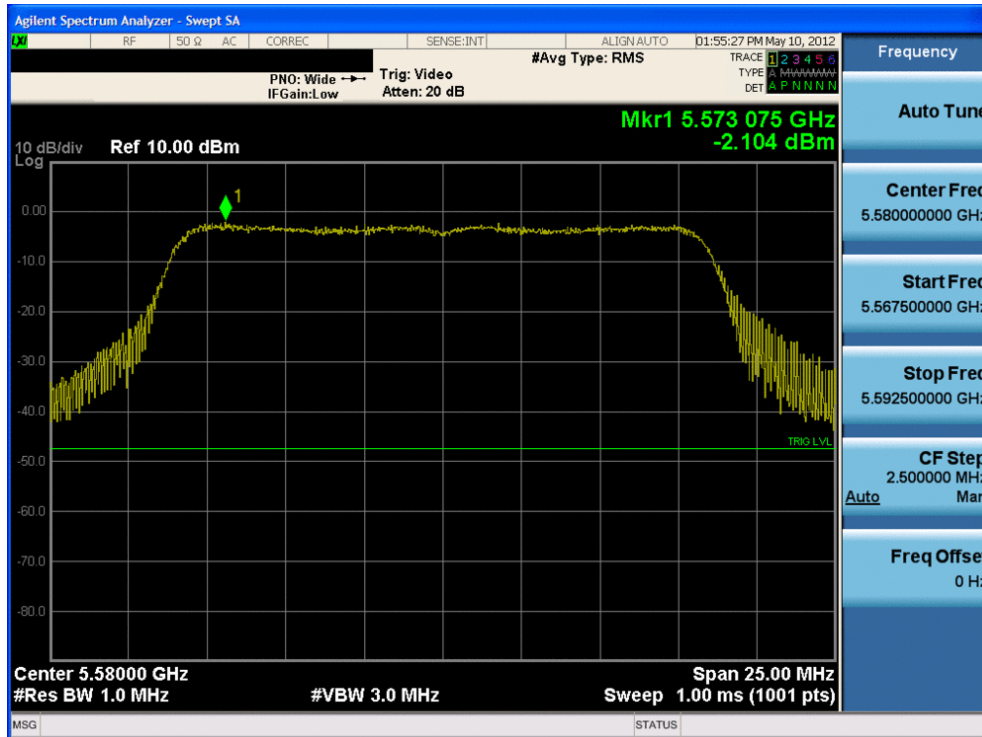


Plot 6-39. Peak Power Spectral Density Plot (802.11n – 20MHz BW (UNII Band 2) – Ch. 64)

FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 34 of 78

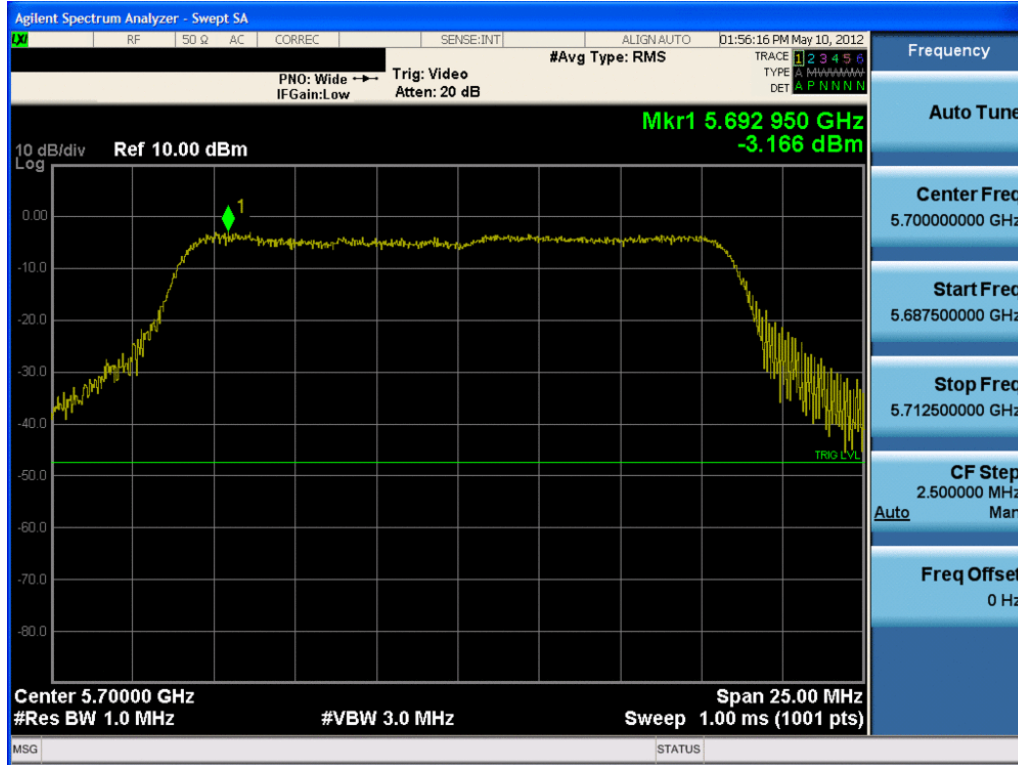


Plot 6-42. Peak Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 100)

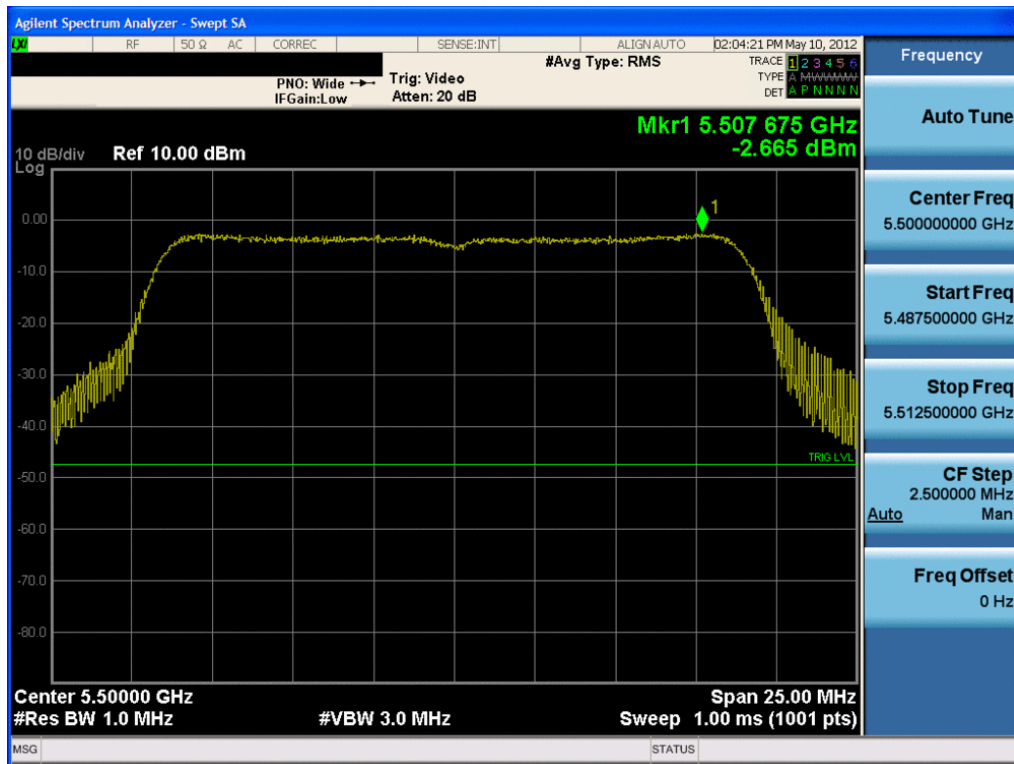


Plot 6-43. Peak Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 116)

FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 36 of 78

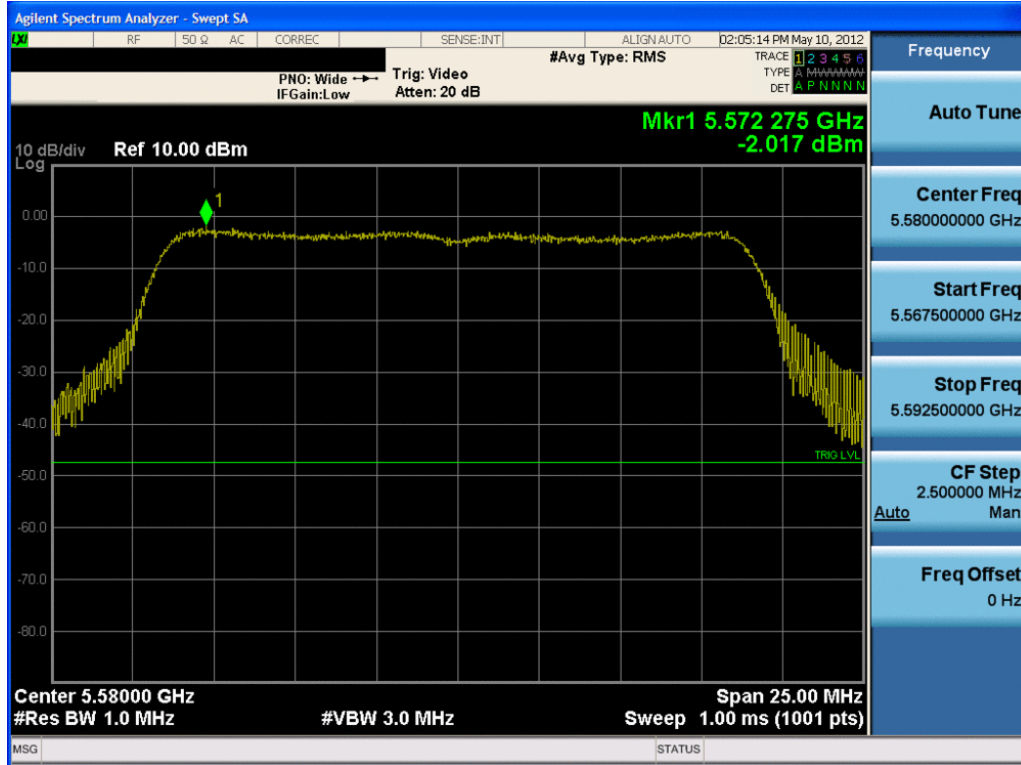


Plot 6-44. Peak Power Spectral Density Plot (802.11a (UNII Band 3) – Ch. 140)

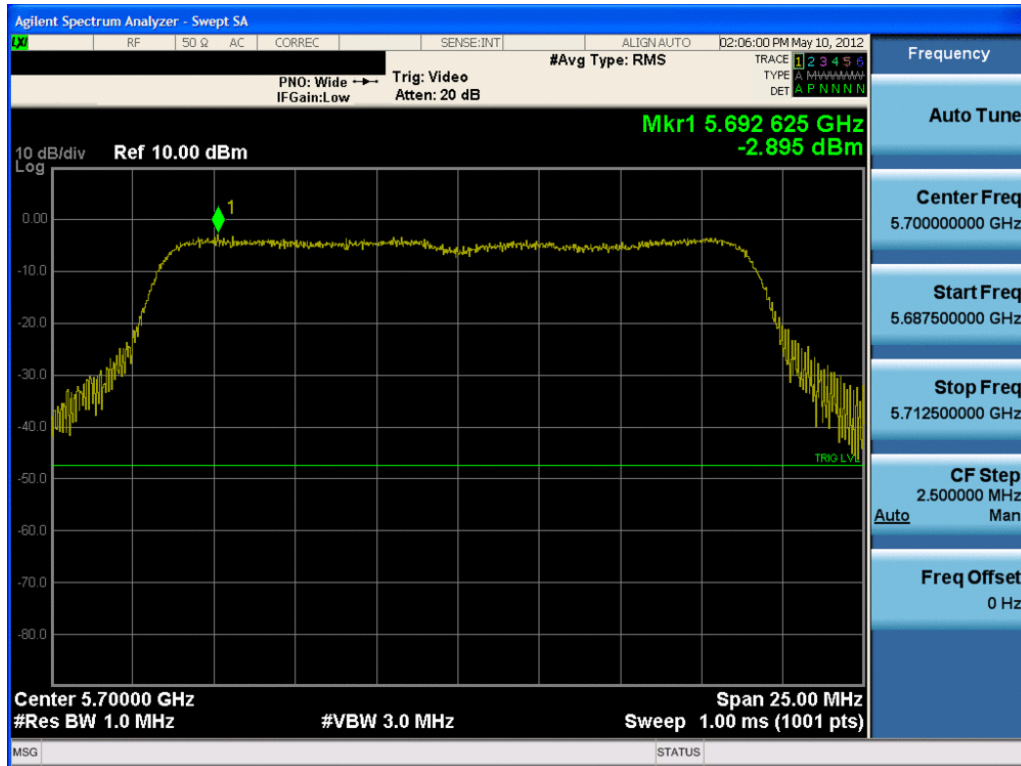


Plot 6-45. Peak Power Spectral Density Plot (802.11n – 20MHz BW (UNII Band 3) – Ch. 100)

FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 37 of 78

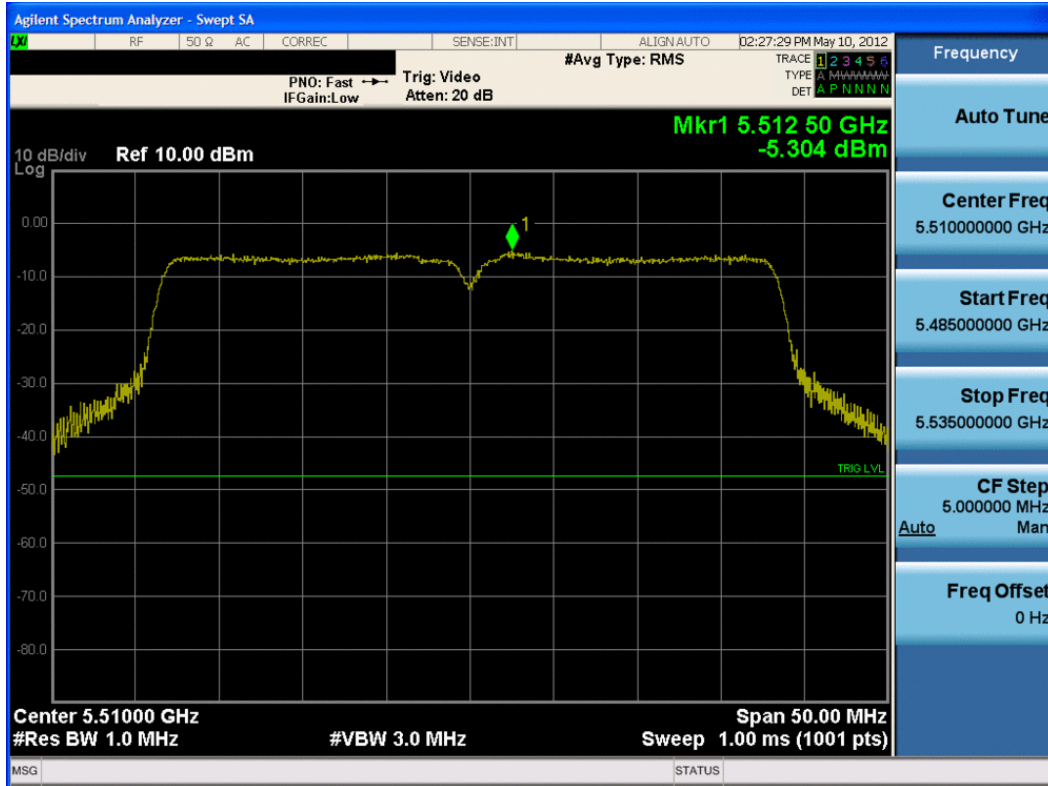


Plot 6-46. Peak Power Spectral Density Plot (802.11n – 20MHz BW (UNII Band 3) – Ch. 116)

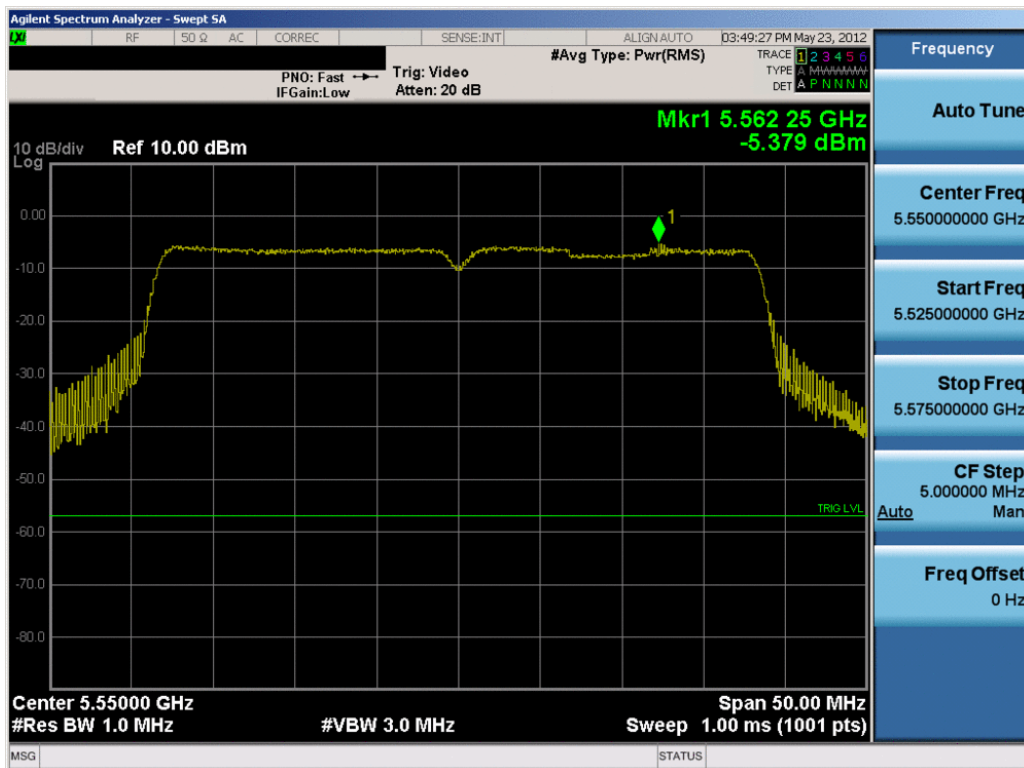


Plot 6-47. Peak Power Spectral Density Plot (802.11n – 20MHz BW (UNII Band 3) – Ch. 140)

FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 38 of 78

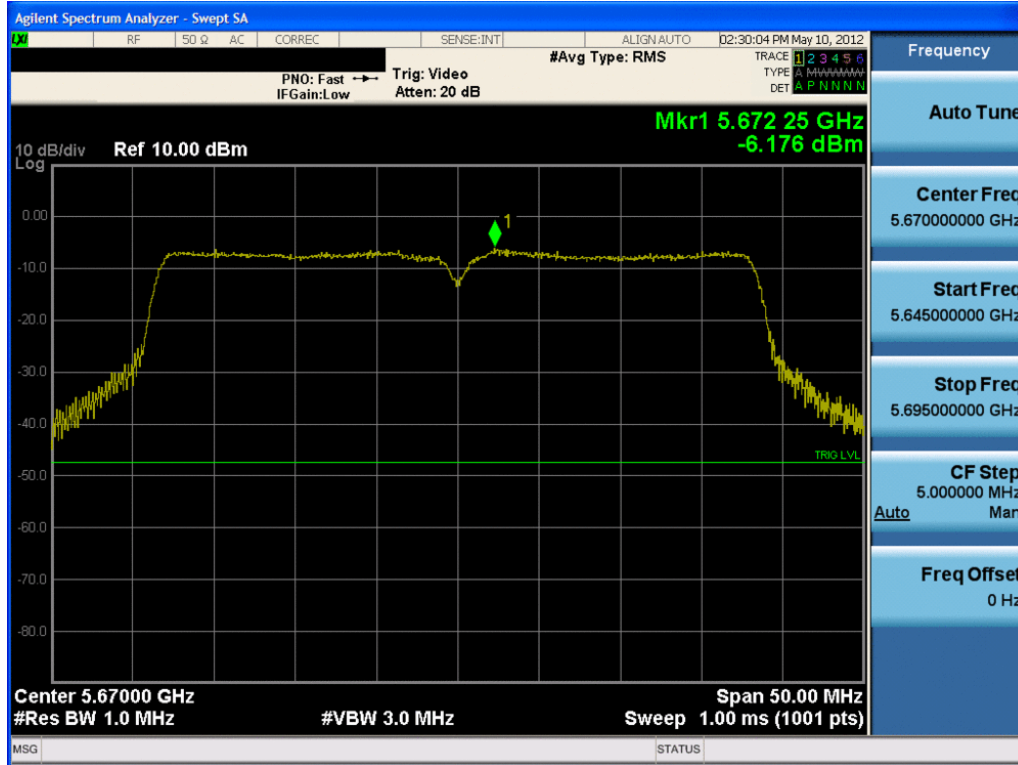


Plot 6-48. Peak Power Spectral Density Plot (802.11n – 40MHz BW (UNII Band 3) – Ch. 102)





Plot 6-49. Peak Power Spectral Density Plot (802.11n – 40MHz BW (UNII Band 3) – Ch. 118)

FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 39 of 78



6-50. Peak Power Spectral Density Plot (802.11n – 40MHz BW (UNII Band 3) – Ch. 134)

FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 40 of 78

6.5 Peak Excursion Ratio – 802.11a/n §15.407(a)(6)

The spectrum analyzer was connected to the antenna terminal while the EUT was operating in the continuous transmission mode at the appropriate center frequencies. Method SA-1, as defined in KDB 789033, was used to generate the average signal trace and the procedure outlined in section F) was used to generate the peak signal trace. The peak and average traces are then used to determine the peak excursion. **The largest permissible difference between the modulation envelope (measured using a peak hold function) and the maximum conducted output power is 13 dBm/MHz.**

	Frequency [MHz]	Channel No.	802.11 Mode	Data Rate [Mbps]	Measured Peak Excursion Ratio [dBm]	Max Permissible Peak Excursion Ratio [dBm/MHz]	Margin [dB]
Band I	5180	36	a	6	8.538	13.0	-4.46
	5200	40	a	6	8.151	13.0	-4.85
	5240	48	a	6	8.179	13.0	-4.82
	5180	36	n (20MHz)	6.5/7.2 (MCS0)	8.621	13.0	-4.38
	5200	40	n (20MHz)	6.5/7.2 (MCS0)	8.004	13.0	-5.00
	5240	48	n (20MHz)	6.5/7.2 (MCS0)	8.289	13.0	-4.71
	5190	38	n (40MHz)	13.5/15 (MCS0)	8.939	13.0	-4.06
	5230	46	n (40MHz)	13.5/15 (MCS0)	7.762	13.0	-5.24
Band II	5260	52	a	6	8.630	13.0	-4.37
	5280	56	a	6	7.635	13.0	-5.37
	5320	64	a	6	7.709	13.0	-5.29
	5260	52	n (20MHz)	6.5/7.2 (MCS0)	7.804	13.0	-5.20
	5280	56	n (20MHz)	6.5/7.2 (MCS0)	7.941	13.0	-5.06
	5320	64	n (20MHz)	6.5/7.2 (MCS0)	8.007	13.0	-4.99
	5270	50	n (40MHz)	13.5/15 (MCS0)	7.959	13.0	-5.04
	5310	62	n (40MHz)	13.5/15 (MCS0)	7.778	13.0	-5.22
Band III	5500	100	a	6	8.970	13.0	-4.03
	5580	116	a	6	7.548	13.0	-5.45
	5700	140	a	6	7.861	13.0	-5.14
	5500	100	n (20MHz)	6.5/7.2 (MCS0)	8.000	13.0	-5.00
	5580	116	n (20MHz)	6.5/7.2 (MCS0)	7.998	13.0	-5.00
	5700	140	n (20MHz)	6.5/7.2 (MCS0)	7.410	13.0	-5.59
	5510	102	n (40MHz)	13.5/15 (MCS0)	7.701	13.0	-5.30
	5550	110	n (40MHz)	13.5/15 (MCS0)	8.192	13.0	-4.81
	5670	134	n (40MHz)	13.5/15 (MCS0)	7.597	13.0	-5.40

Table 6-7. Conducted Peak Excursion Ratio Measurements

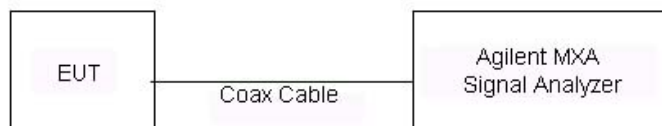
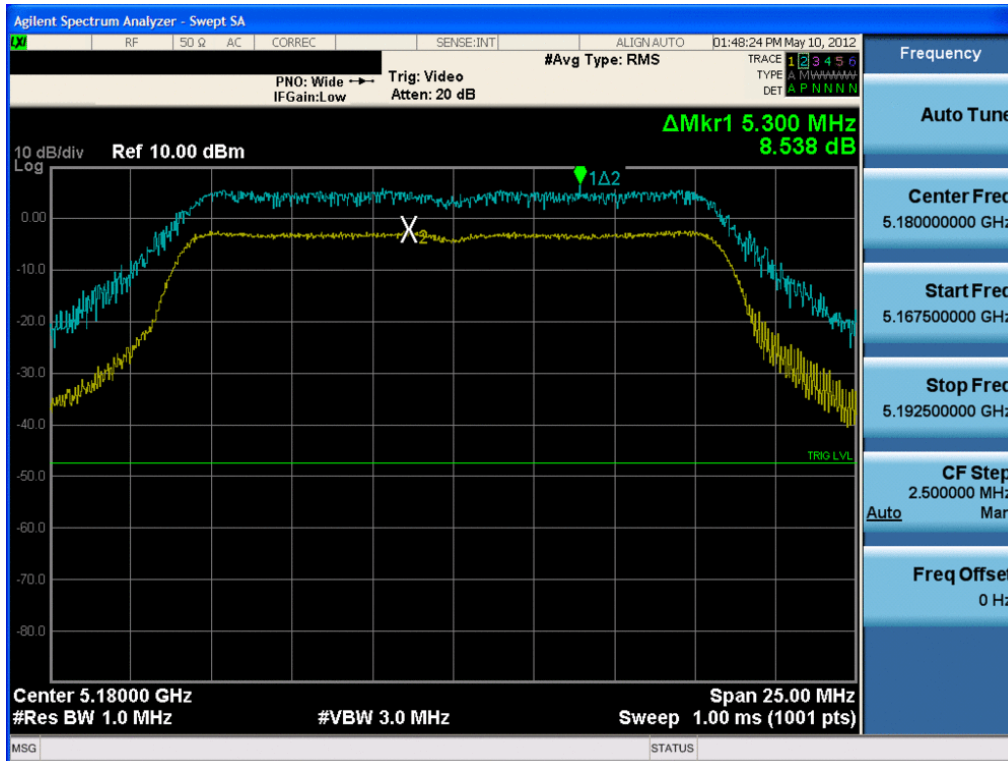
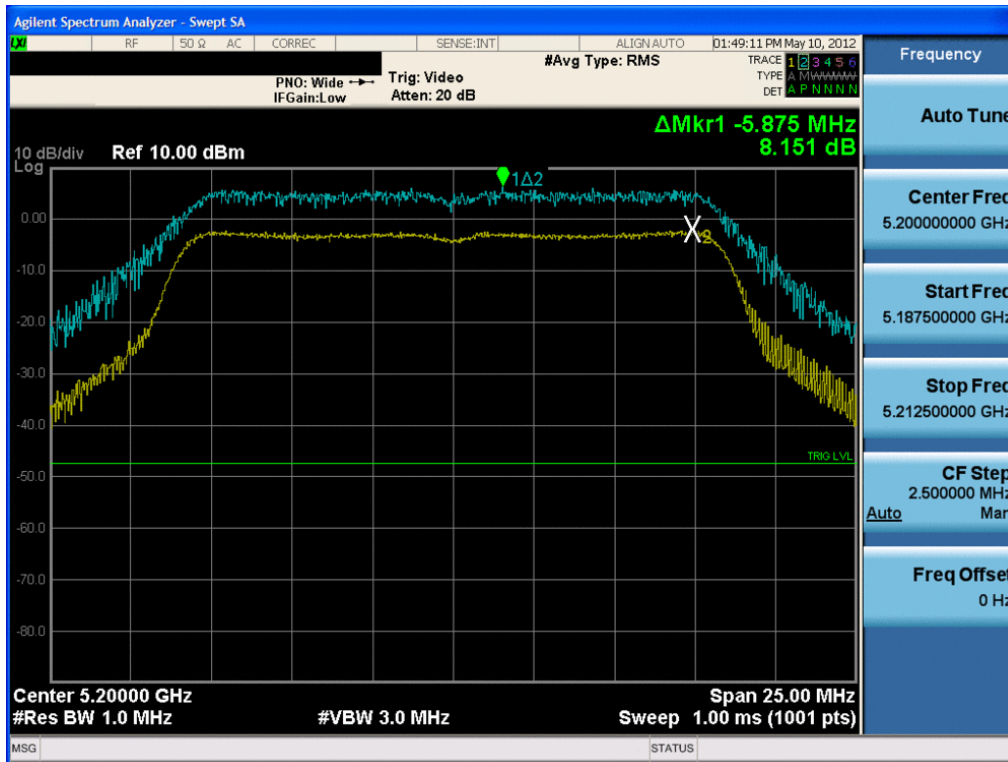


Figure 6-4. Test Instrument & Measurement Setup



FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset	Page 41 of 78	

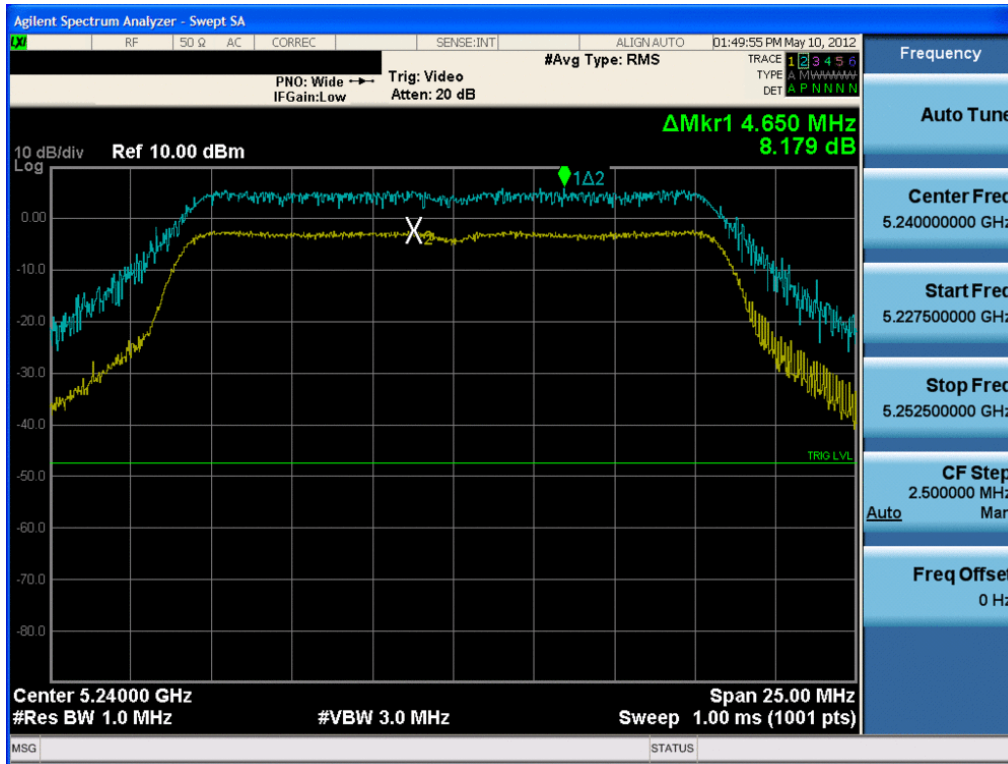


Plot 6-51. Peak Excursion Ratio Plot (802.11a (UNII Band 1) – Ch. 36)

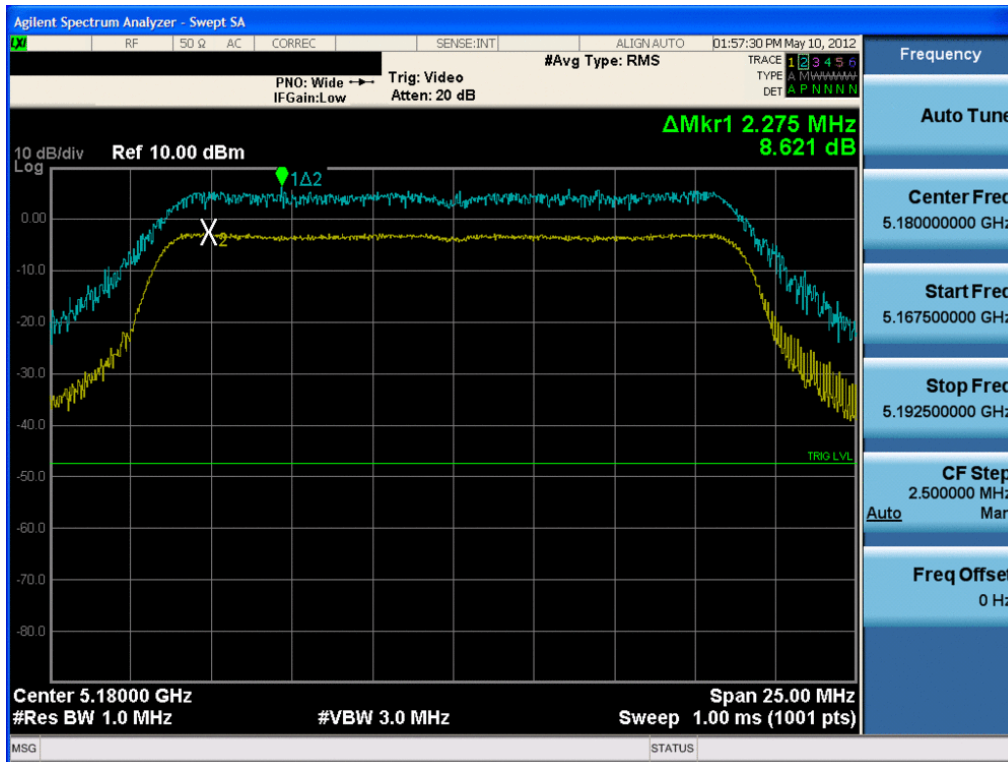


Plot 6-52. Peak Excursion Ratio Plot (802.11a (UNII Band 1) – Ch. 40)

FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 42 of 78

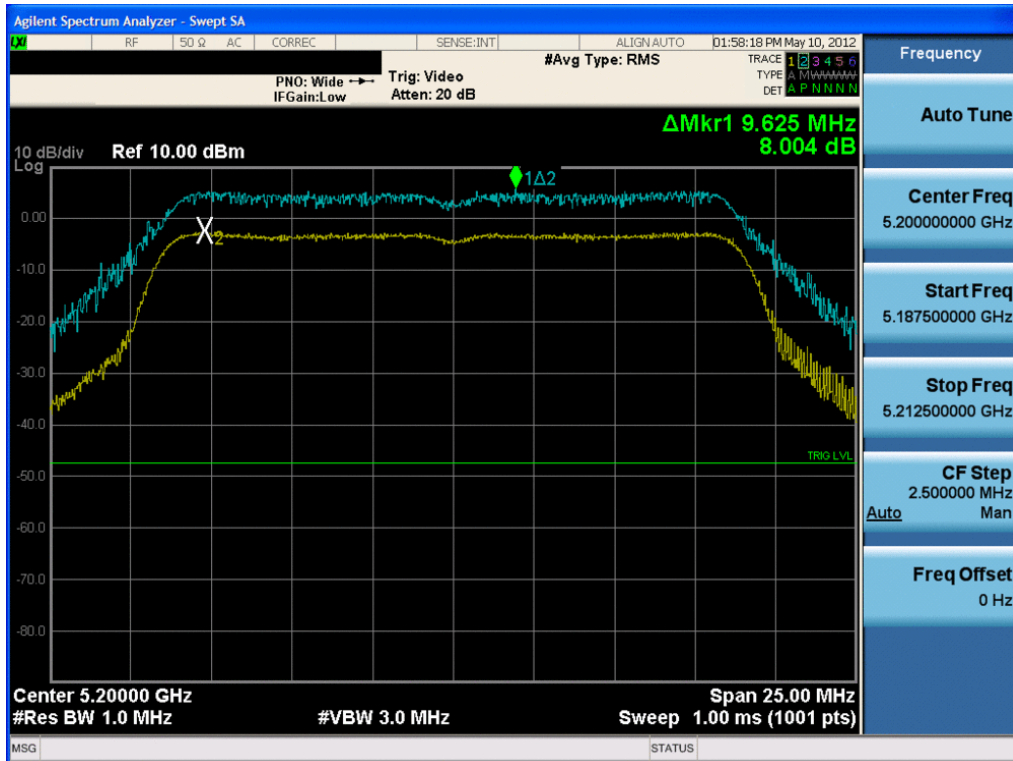


Plot 6-53. Peak Excursion Ratio Plot (802.11a (UNII Band 1) – Ch. 48)

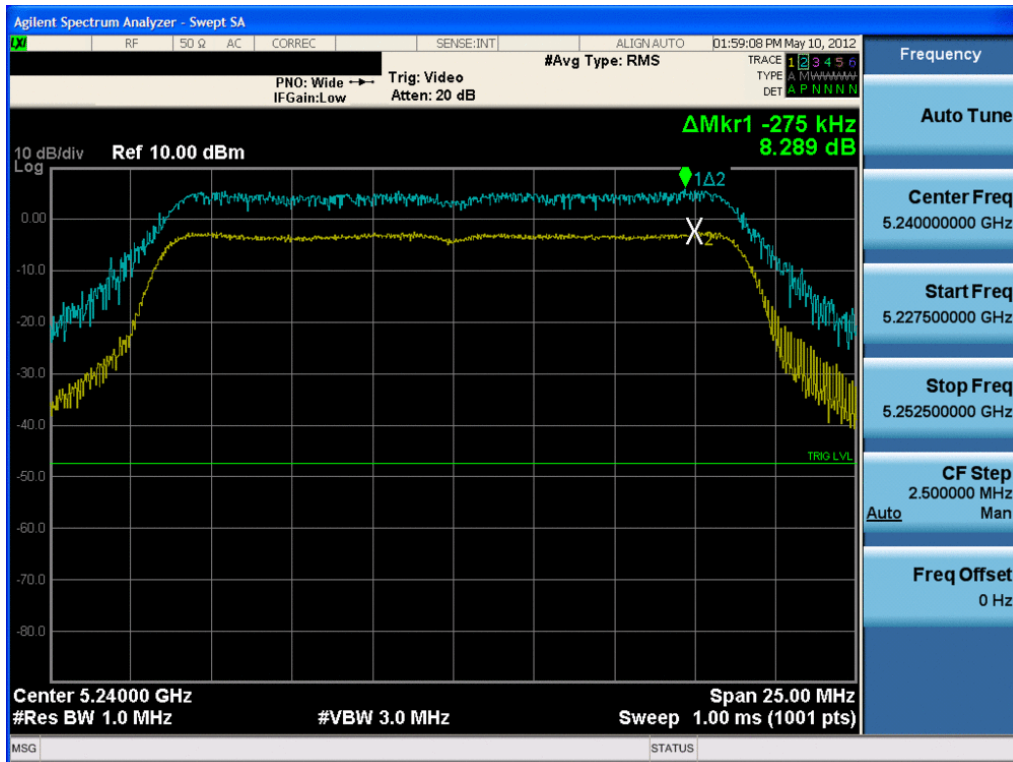


Plot 6-54. Peak Excursion Ratio Plot (802.11n – 20MHz BW (UNII Band 1) – Ch. 36)

FCC ID: A3LSWDSC06D	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 43 of 78

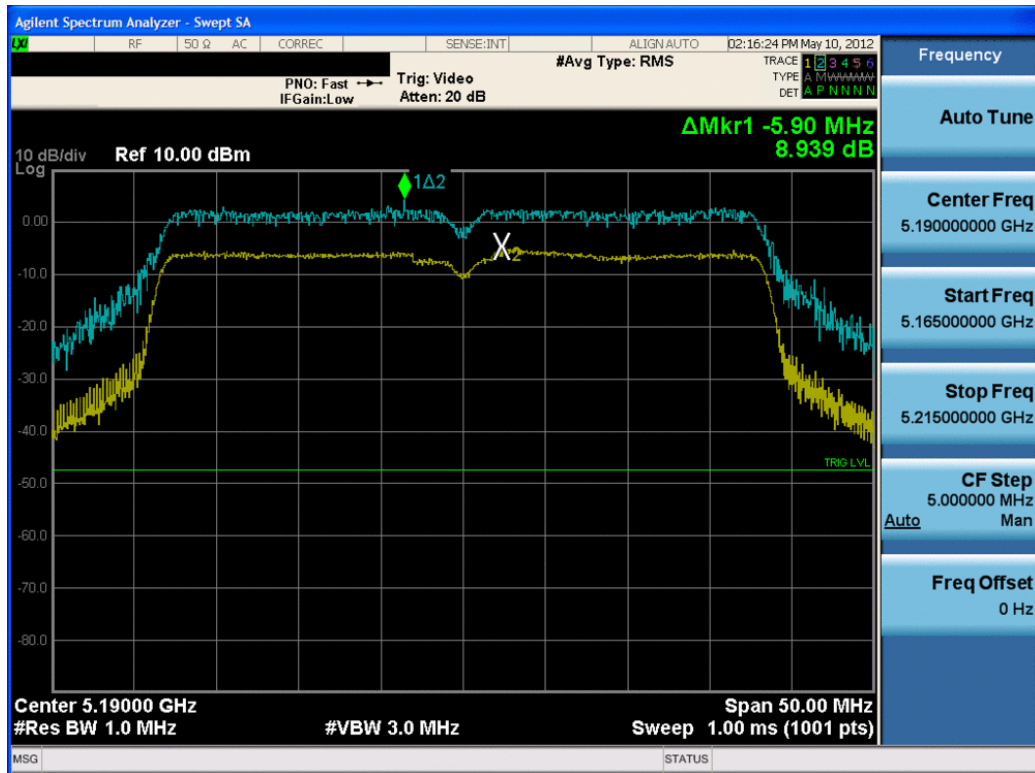


Plot 6-55. Peak Excursion Ratio Plot (802.11n – 20MHz BW (UNII Band 1) – Ch. 40)

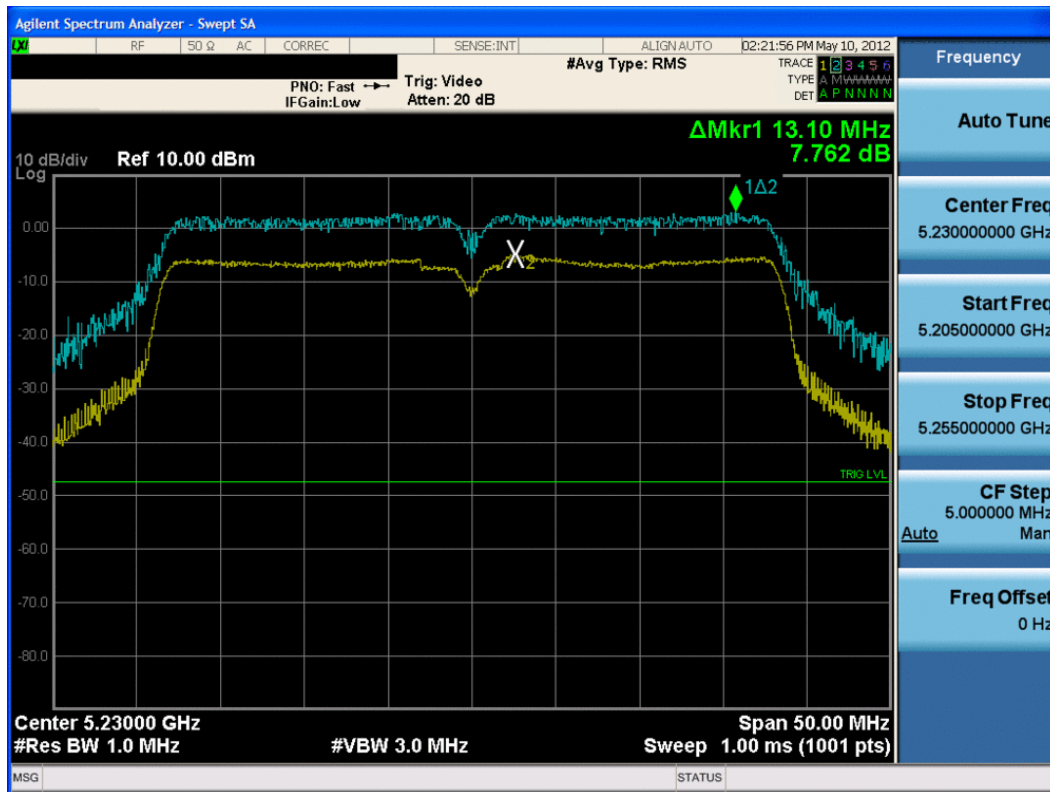


Plot 6-56. Peak Excursion Ratio Plot (802.11n – 20MHz BW (UNII Band 1) – Ch. 48)

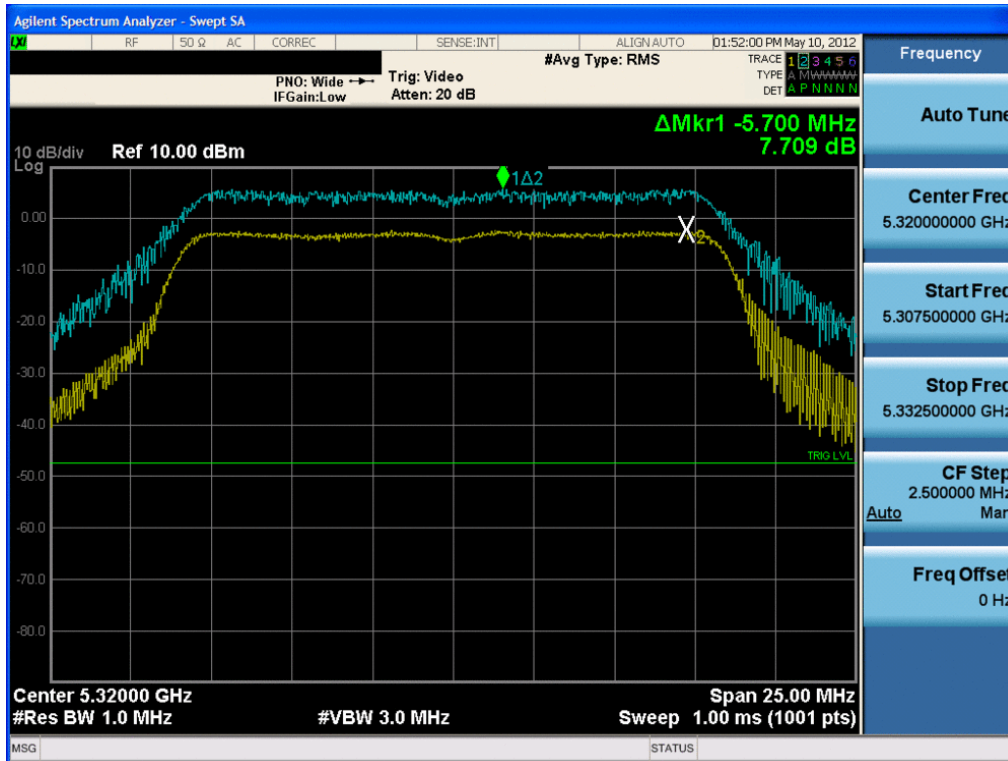
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Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 44 of 78



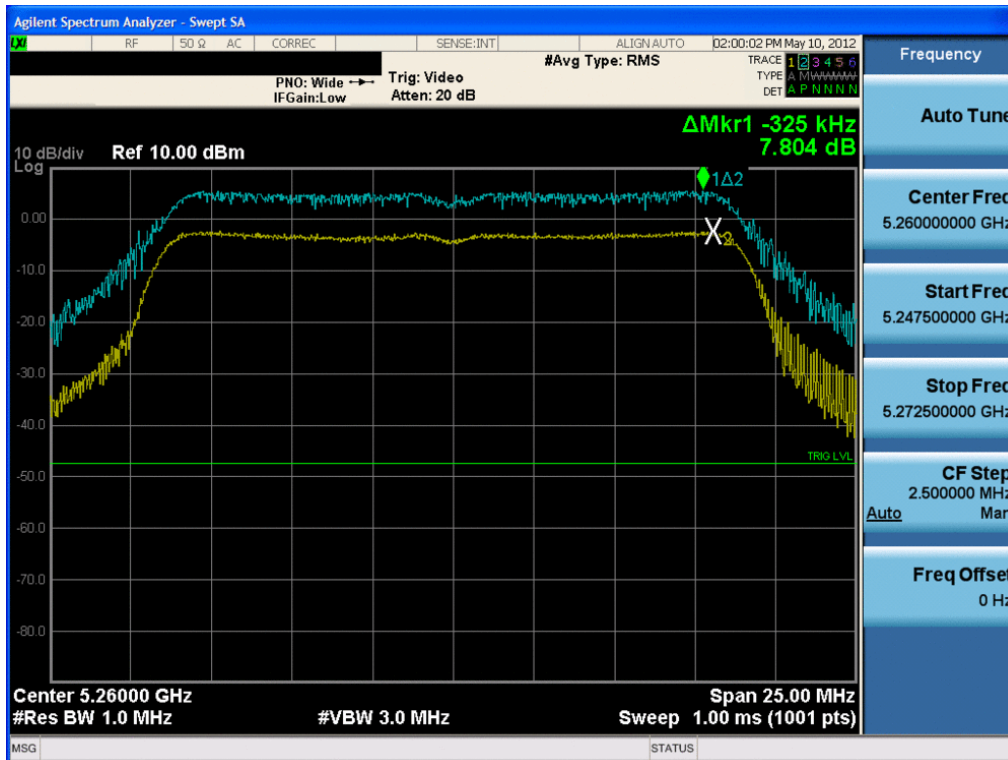
Plot 6-57. Peak Excursion Ratio Plot (802.11n – 40MHz BW (UNII Band 1) – Ch. 38)



FCC ID: A3LSWDSC06D	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 45 of 78

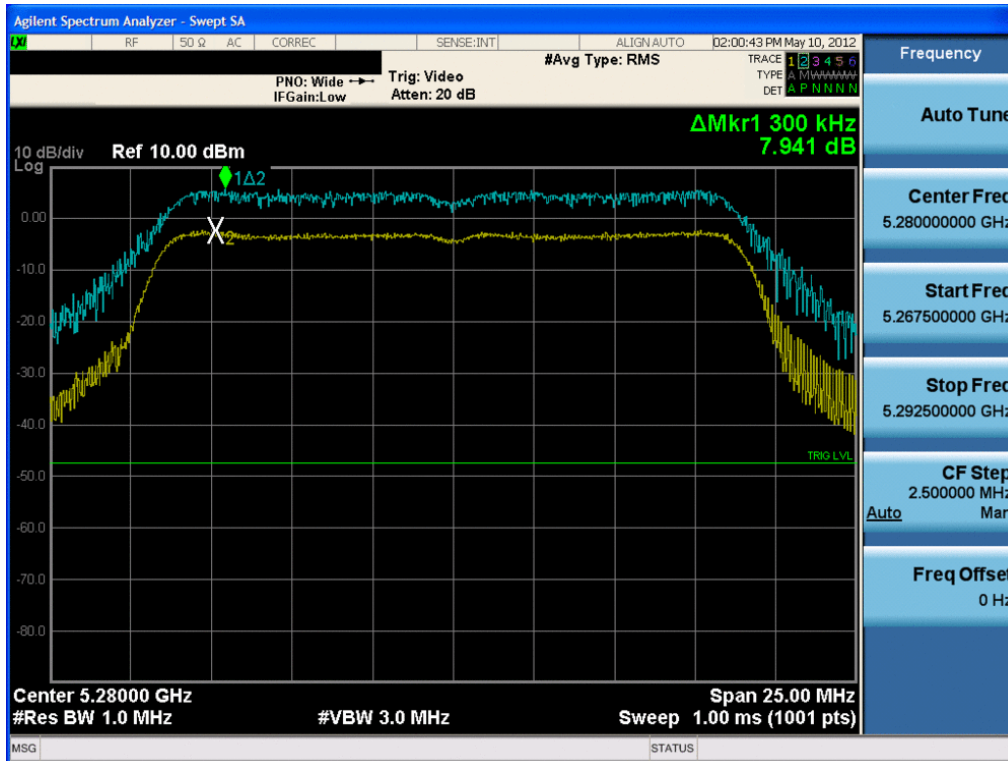


Plot 6-61. Peak Excursion Ratio Plot (802.11a (UNII Band 2) – Ch. 64)

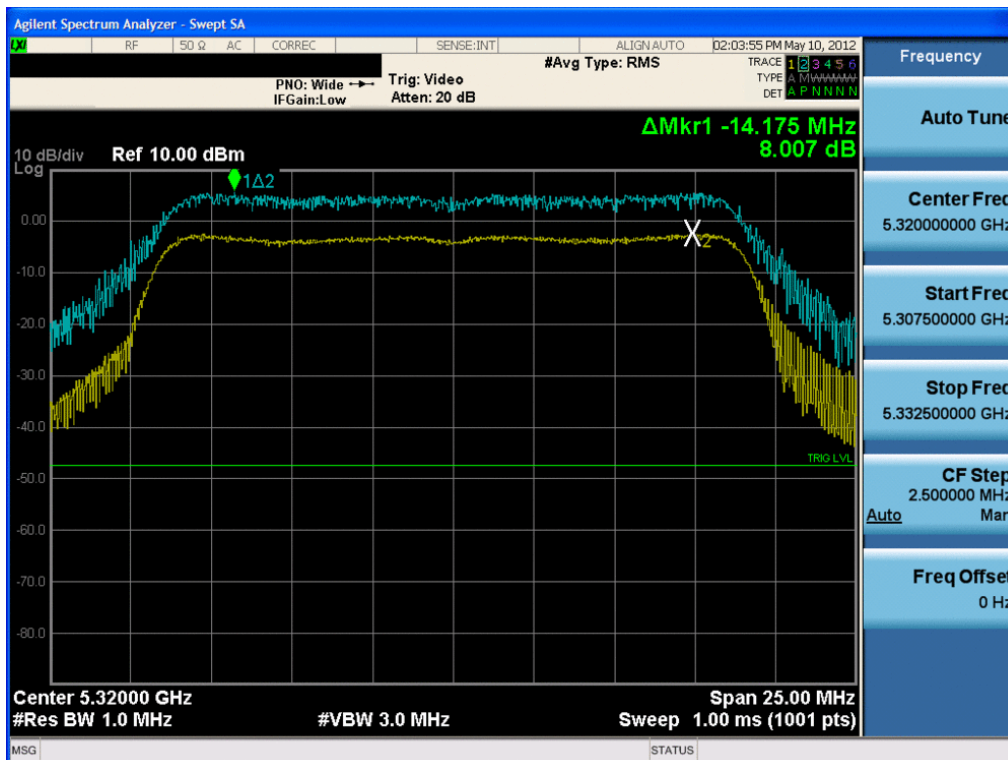


Plot 6-62. Peak Excursion Ratio Plot (802.11n – 20MHz BW (UNII Band 2) – Ch. 52)

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Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 47 of 78

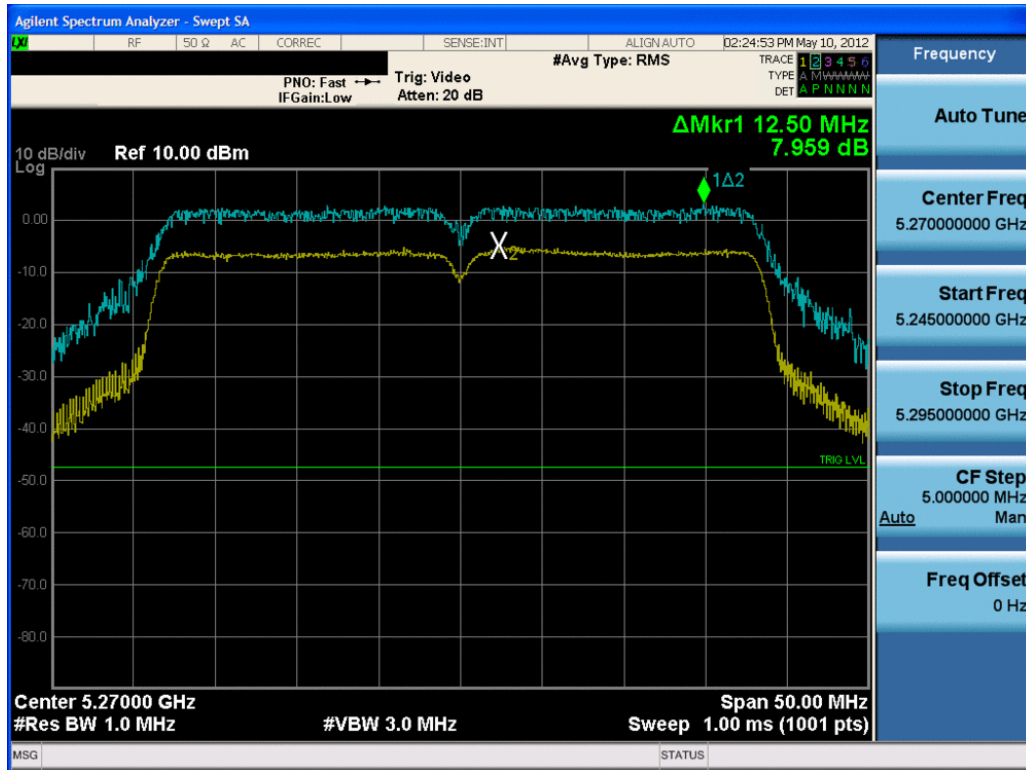


Plot 6-63. Peak Excursion Ratio Plot (802.11n – 20MHz BW (UNII Band 2) – Ch. 56)

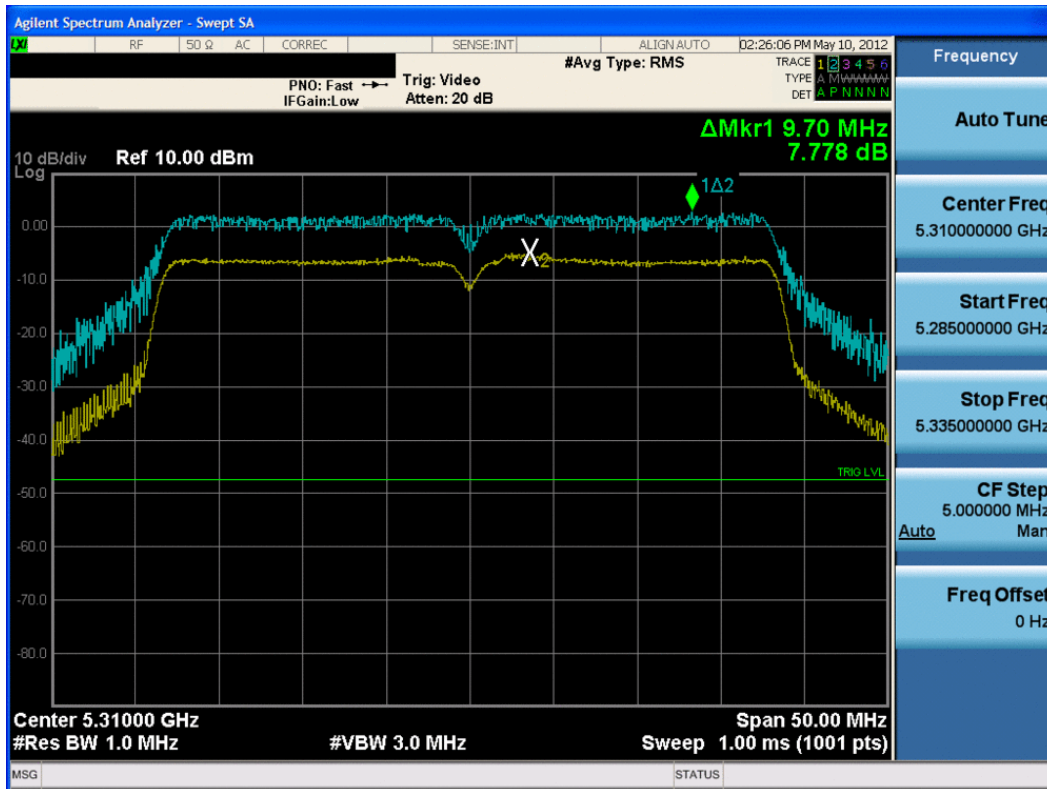


Plot 6-64. Peak Excursion Ratio Plot (802.11n – 20MHz BW (UNII Band 2) – Ch. 64)

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Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 48 of 78

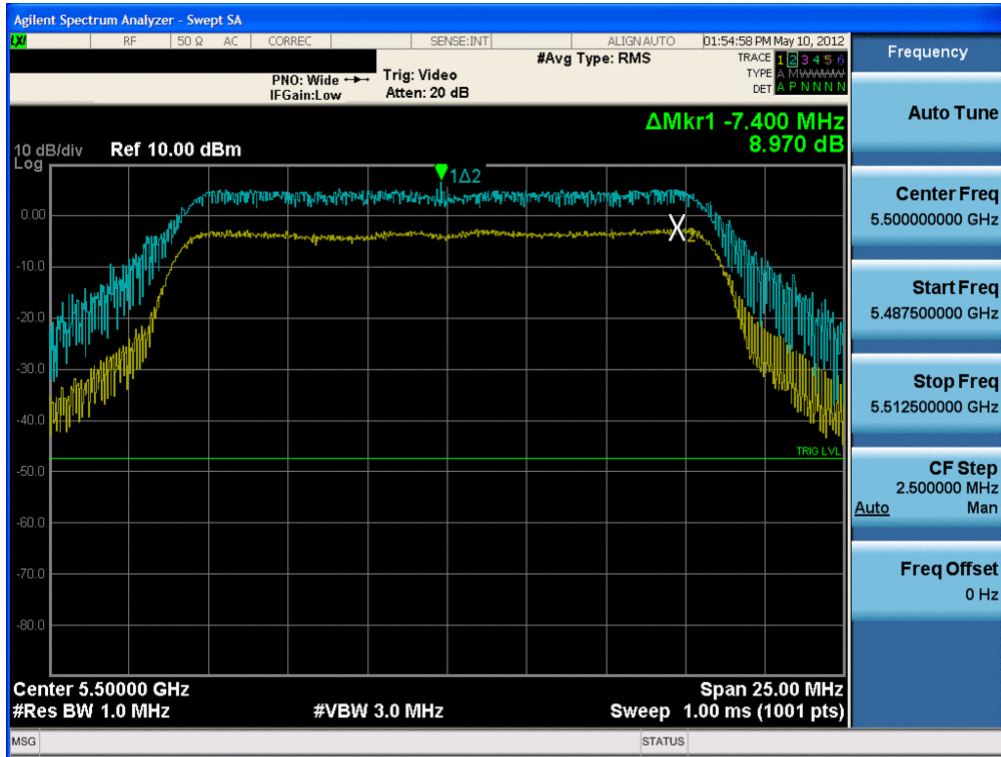


Plot 6-65. Peak Excursion Ratio Plot (802.11n – 40MHz BW (UNII Band 2) – Ch. 54)

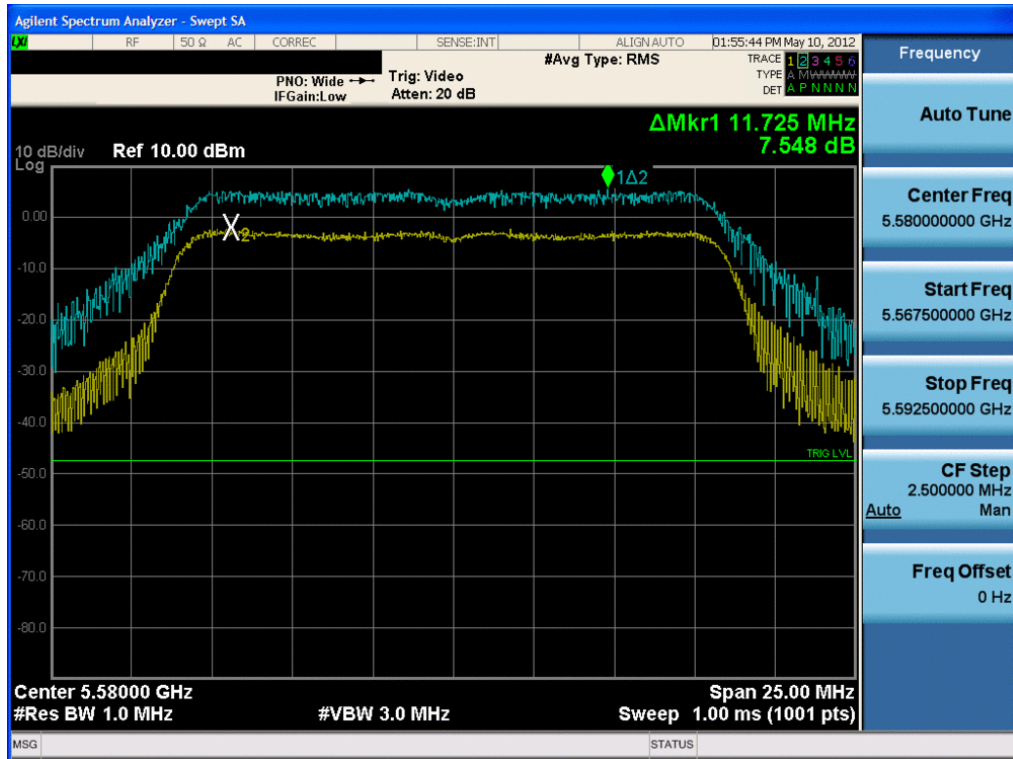


Plot 6-66. Peak Excursion Ratio Plot (802.11n – 40MHz BW (UNII Band 2) – Ch. 62)



FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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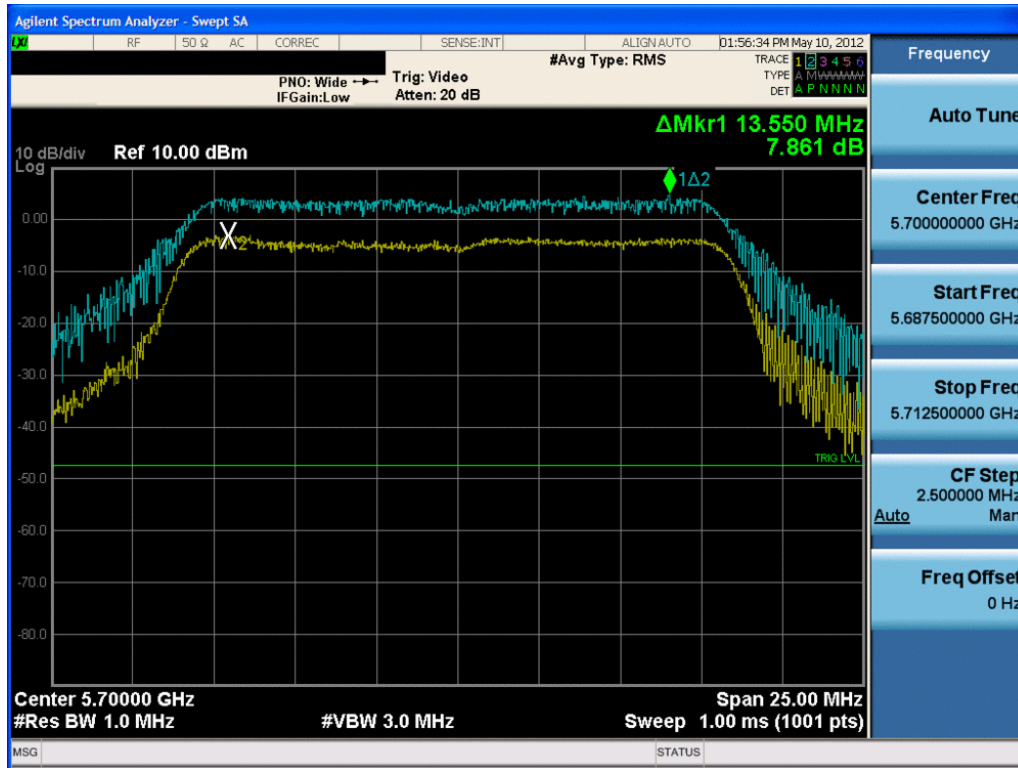


Plot 6-67. Peak Excursion Ratio Plot (802.11a (UNII Band 3) – Ch. 100)

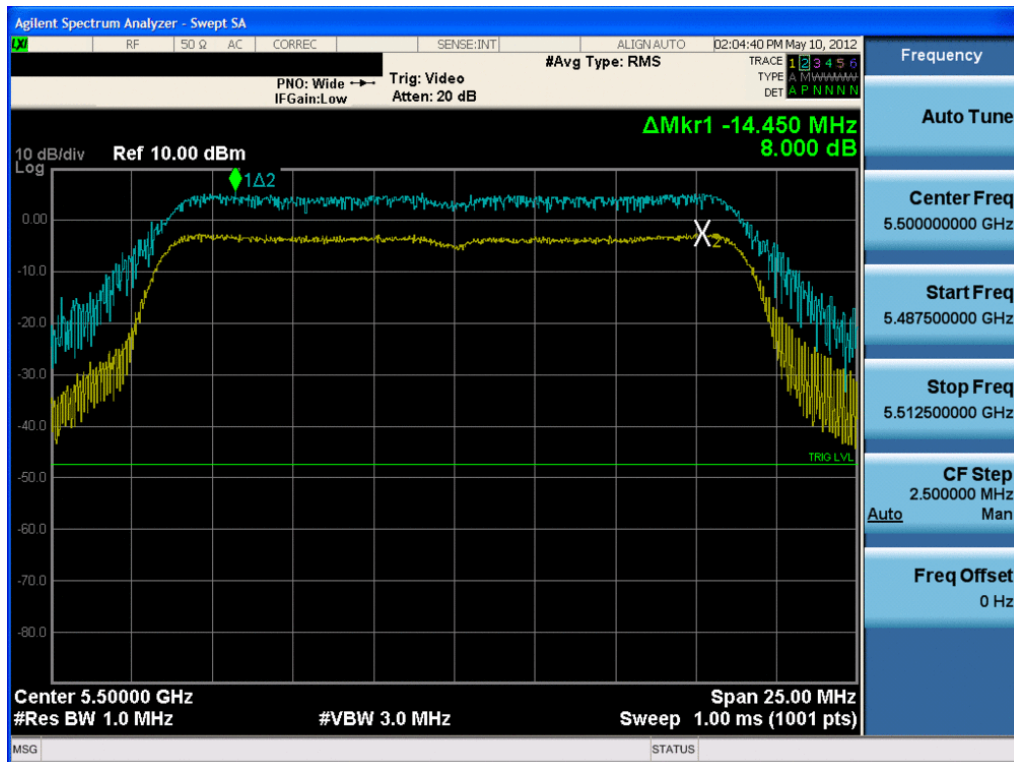


Plot 6-68. Peak Excursion Ratio Plot (802.11a (UNII Band 3) – Ch. 116)

FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 50 of 78

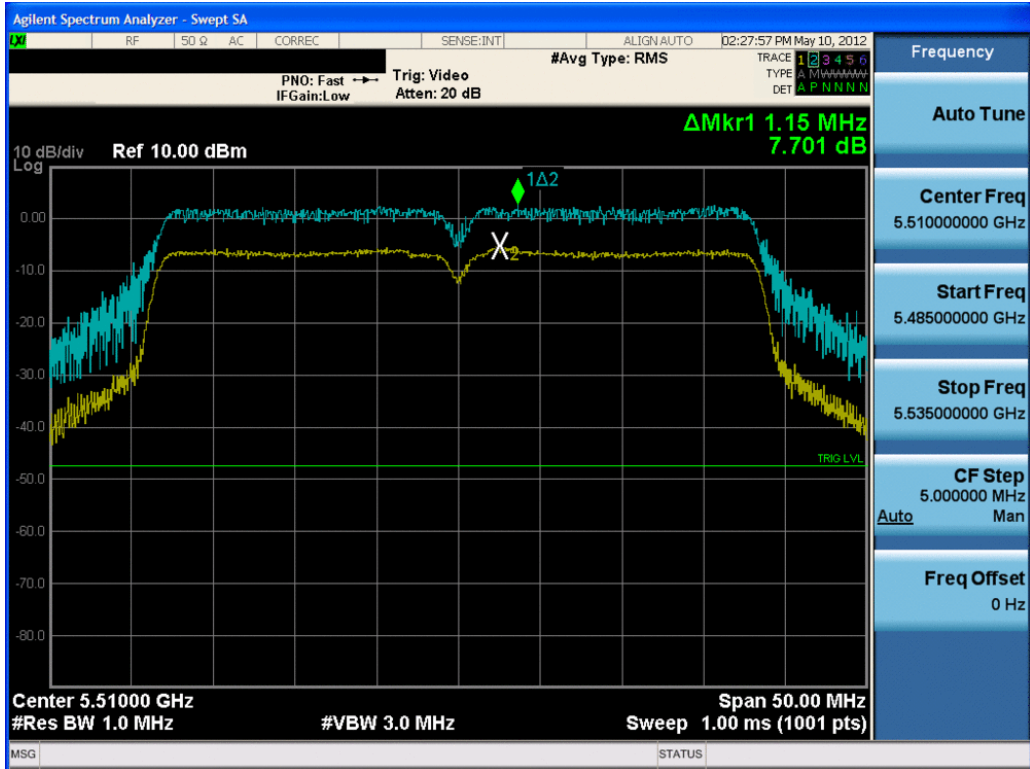


Plot 6-69. Peak Excursion Ratio Plot (802.11a (UNII Band 3) – Ch. 140)

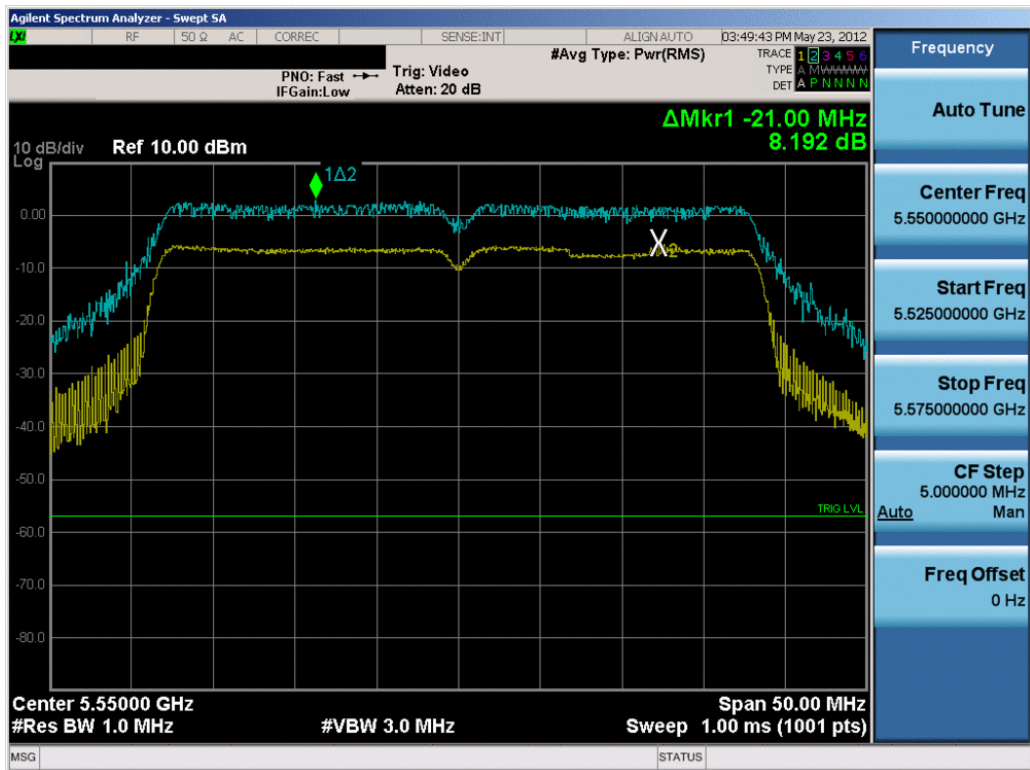


Plot 6-70. Peak Excursion Ratio Plot (802.11n – 20MHz BW (UNII Band 3) – Ch. 100)

FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 51 of 78



Plot 6-73. Peak Excursion Ratio Plot (802.11n – 40MHz BW (UNII Band 3) – Ch. 102)



Plot 6-74. Peak Excursion Ratio Plot (802.11n – 40MHz BW (UNII Band 3) – Ch. 118)

FCC ID: A3LSWDSC06D	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset		Page 53 of 78

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: 3.8 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,179,999,993	-7	-0.0000001
100 %		- 30	5,179,999,987	-13	-0.0000002
100 %		- 20	5,179,999,995	-5	-0.0000001
100 %		- 10	5,179,999,981	-19	-0.0000004
100 %		0	5,179,999,983	-17	-0.0000003
100 %		+ 10	5,179,999,991	-9	-0.0000002
100 %		+ 20	5,179,999,988	-12	-0.0000002
100 %		+ 30	5,179,999,989	-11	-0.0000002
100 %		+ 40	5,179,999,996	-4	-0.0000001
100 %		+ 50	5,179,999,998	-2	0.0000000
115 %	4.37	+ 20	5,179,999,997	-3	-0.0000001
BATT. ENDPOINT	3.40	+ 20	5,179,999,986	-14	-0.0000003

Table 6-8. Frequency Stability Measurements for UNII Band 1 (Ch. 36)

FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset	Page 55 of 78	

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)	5,259,999,998	-2	0.0000000
100 %		- 30	5,259,999,990	-10	-0.0000002
100 %		- 20	5,259,999,992	-8	-0.0000001
100 %		- 10	5,259,999,996	-4	-0.0000001
100 %		0	5,259,999,986	-14	-0.0000003
100 %		+ 10	5,259,999,992	-8	-0.0000001
100 %		+ 20	5,259,999,992	-8	-0.0000002
100 %		+ 30	5,259,999,995	-5	-0.0000001
100 %		+ 40	5,259,999,990	-10	-0.0000002
100 %		+ 50	5,259,999,987	-13	-0.0000003
115 %	4.37	+ 20	5,259,999,994	-6	-0.0000001
BATT. ENDPOINT	3.40	+ 20	5,259,999,980	-20	-0.0000004

Table 6-9. Frequency Stability Measurements for UNII Band 2 (Ch. 52)

FCC ID: A3LSWDSC06D		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: 3.8 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	+ 20 (Ref)	5,499,999,983	-17	-0.0000003
100 %		- 30	5,499,999,990	-10	-0.0000002
100 %		- 20	5,499,999,985	-15	-0.0000003
100 %		- 10	5,499,999,991	-9	-0.0000002
100 %		0	5,499,999,985	-15	-0.0000003
100 %		+ 10	5,499,999,988	-12	-0.0000002
100 %		+ 20	5,499,999,987	-13	-0.0000002
100 %		+ 30	5,499,999,997	-3	-0.0000001
100 %		+ 40	5,499,999,993	-7	-0.0000001
100 %		+ 50	5,499,999,988	-12	-0.0000002
115 %	4.37	+ 20	5,499,999,993	-7	-0.0000001
BATT. ENDPOINT	3.40	+ 20	5,499,999,983	-17	-0.0000003

Table 6-10. Frequency Stability Measurements for UNII Band 3 (Ch. 100)

FCC ID: A3LSWDSC06D		FCC Pt. 15.407 802.11a/n UNII MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1205010621.A3L	Test Dates: 05/09/12 - 05/23/12	EUT Type: Portable Handset	Page 57 of 78	

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 = 1MHz, VBW = 3MHz 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 6-11 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 C-63.4-2003. 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 [$\mu\text{V/m}$]	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 6-11. Radiated Limits

Sample Calculation

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

FCC ID: A3LSWDSC06D		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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10360.00	-95.04	Peak	H	45.40	57.35	68.20	-10.85
* 15540.00	-114.62	Average	H	55.99	48.37	53.98	-5.61
* 15540.00	-99.51	Peak	H	55.99	63.48	73.98	-10.50
* 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 6-12. 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 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.
- 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 6-11.
- 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 μ V/m (54dB μ /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 [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
10400.00	-94.83	Peak	H	45.42	57.59	68.20	-10.61
* 15600.00	-114.94	Average	H	56.13	48.19	53.98	-5.79
* 15600.00	-100.40	Peak	H	56.13	62.73	73.98	-11.25
* 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 6-13. Radiated Measurements @ 3 meter

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dB μ V/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 6-11.
- 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 μ V/m (54dB μ V/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: 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	-95.29	Peak	H	45.42	57.13	68.20	-11.07
* 15720.00	-115.16	Average	H	56.36	48.21	53.98	-5.77
* 15720.00	-100.15	Peak	H	56.36	63.22	73.98	-10.76
* 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 6-14. Radiated Measurements @ 3 meter

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dB μ V/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 6-11.
- 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 μ V/m (54dB μ V/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: 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	-95.62	Peak	H	45.50	56.88	68.20	-11.32
* 15780.00	-115.03	Average	H	56.56	48.53	53.98	-5.45
* 15780.00	-100.07	Peak	H	56.56	63.49	73.98	-10.49
* 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 6-15. Radiated Measurements @ 3 meter

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 6-11.
- 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: 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	-96.54	Peak	H	45.50	55.96	68.20	-12.24
* 15840.00	-115.09	Average	H	56.67	48.58	53.98	-5.40
* 15840.00	-100.50	Peak	H	56.67	63.17	73.98	-10.81
* 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 6-16. Radiated Measurements @ 3 meter

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dB μ V/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 6-11.
- 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 μ V/m (54dB μ V/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: 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	-112.49	Average	H	45.59	40.10	53.98	-13.88
* 10640.00	-96.78	Peak	H	45.59	55.81	73.98	-18.17
* 15960.00	-115.09	Average	H	57.15	49.06	53.98	-4.92
* 15960.00	-99.42	Peak	H	57.15	64.73	73.98	-9.25
* 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 6-17. Radiated Measurements @ 3 meter

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 6-11.
- 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 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: 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	-114.64	Average	H	45.50	37.86	53.98	-16.12
* 11000.00	-99.39	Peak	H	45.50	53.11	73.98	-20.87
16500.00	-99.44	Peak	H	56.56	64.12	68.20	-4.08
22000.00	-171.34	Peak	H	42.01	-22.33	68.20	-90.53
27500.00	-171.79	Peak	H	42.74	-22.05	68.20	-90.25

Table 6-18. Radiated Measurements @ 3 meter

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 6-11.
- 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 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: 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	-114.30	Average	H	45.50	38.20	53.98	-15.78
* 11160.00	-98.88	Peak	H	45.50	53.62	73.98	-20.36
16740.00	-99.85	Peak	H	56.67	63.82	68.20	-4.38
* 22320.00	-161.36	Average	H	42.01	-12.35	53.98	-66.32
* 22320.00	-171.36	Peak	H	42.01	-22.35	73.98	-96.32
27900.00	-171.74	Peak	H	42.69	-22.05	68.20	-90.25

Table 6-19. Radiated Measurements @ 3 meter

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dB μ V/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 6-11.
- 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 μ V/m (54dB μ V/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: 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	-114.81	Average	H	45.59	37.78	53.98	-16.20
* 11400.00	-100.28	Peak	H	45.59	52.31	73.98	-21.67
17100.00	-99.66	Peak	H	57.15	64.49	68.20	-3.71
* 22800.00	-161.31	Average	H	42.03	-12.29	53.98	-66.27
* 22800.00	-171.31	Peak	H	42.03	-22.29	73.98	-96.27
28500.00	-171.79	Peak	H	42.63	-22.16	68.20	-90.36

Table 6-20. Radiated Measurements @ 3 meter

NOTES:

- All harmonics that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz (68.2dB μ V/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 6-11.
- 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 μ V/m (54dB μ V/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 Meter

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]
4971.88	-113.89	Average	H	38.87	31.98	53.98	-22.00
4971.88	-98.15	Peak	H	38.87	47.72	73.98	-26.26
5072.92	-111.71	Average	H	39.04	34.33	53.98	-19.65
5072.92	-96.53	Peak	H	39.04	49.51	73.98	-24.47
5150.00	-110.43	Average	H	39.20	35.77	53.98	-18.21
5150.00	-89.89	Peak	H	39.20	56.31	73.98	-17.67

Table 6-21. 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 μ V/m (54dB μ /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 Meter
 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]
5350.88	-111.01	Average	H	39.60	35.59	53.98	-18.39
5350.88	-92.87	Peak	H	39.60	53.73	73.98	-20.25
5381.20	-111.97	Average	H	39.67	34.70	53.98	-19.28
5381.20	-94.63	Peak	H	39.67	52.04	73.98	-21.94
5431.09	-112.50	Average	H	39.77	34.27	53.98	-19.71
5431.09	-93.62	Peak	H	39.77	53.15	73.98	-20.83

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 (68.2dB μ V/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 μ V/m (54dB μ /m) at 3 meters radiated for emissions that lie in restricteds 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 Meter
 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]
5448.19	-110.86	Average	H	39.80	35.95	53.98	-18.03
5448.19	-92.50	Peak	H	39.80	54.31	73.98	-19.67
5455.95	-110.01	Average	H	39.82	36.81	53.98	-17.17
5455.95	-93.47	Peak	H	39.82	53.35	73.98	-20.63
5470.00	-94.13	Peak	H	39.85	52.72	68.20	-15.48

Table 6-23. 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 Meter
 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]
5727.13	-91.26	Peak	H	40.10	55.85	68.20	-12.35
5736.90	-92.68	Peak	H	40.11	54.43	68.20	-13.77
5742.91	-92.52	Peak	H	40.11	54.59	68.20	-13.61

Table 6-24. Radiated Restricted Band Measurements at 3-meter

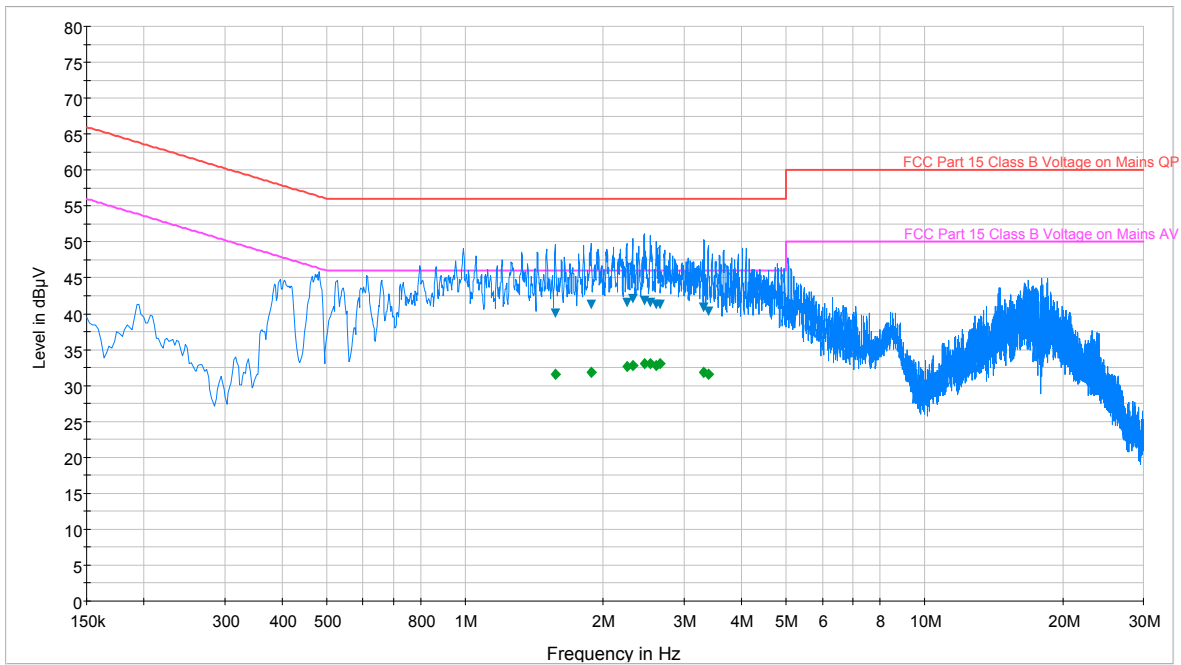
NOTES:

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 6-76. 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
1.572	L1	40.10	56.00	15.90	31.60	46.00	14.40
1.883	L1	41.20	56.00	14.80	31.90	46.00	14.10
2.249	L1	41.50	56.00	14.50	32.70	46.00	13.30
2.319	L1	42.10	56.00	13.90	32.70	46.00	13.30
2.456	L1	41.80	56.00	14.20	33.00	46.00	13.00
2.533	L1	41.50	56.00	14.50	33.00	46.00	13.00
2.607	L1	41.20	56.00	14.80	32.80	46.00	13.20
2.654	L1	41.30	56.00	14.70	33.10	46.00	12.90
3.316	L1	40.90	56.00	15.10	31.80	46.00	14.20
3.383	L1	40.40	56.00	15.60	31.60	46.00	14.40

Table 6-25. Line Conducted Data with 802.11a (UNII Band 1) (L1)

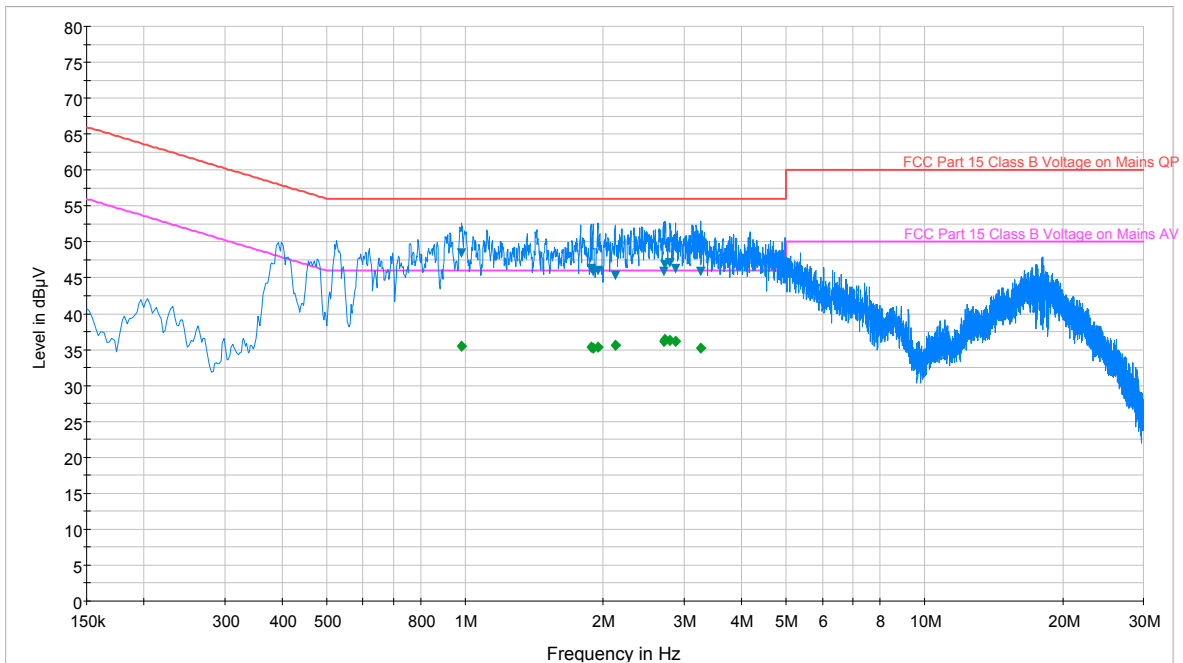
Notes:

- 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.
- Line 1 = 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)

§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-QPK+
◆ Final Result 2-AVG

Plot 6-77. Line Conducted Plot with 802.11a (UNII Band 1) (LN)

Frequency MHz	Line	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
0.983	N	48.40	56.00	7.60	35.50	46.00	10.50
1.880	N	46.30	56.00	9.70	35.30	46.00	10.70
1.901	N	45.90	56.00	10.10	35.20	46.00	10.80
1.948	N	46.00	56.00	10.00	35.30	46.00	10.70
2.123	N	45.30	56.00	10.70	35.60	46.00	10.40
2.706	N	45.90	56.00	10.10	36.20	46.00	9.80
2.729	N	46.80	56.00	9.20	36.40	46.00	9.60
2.796	N	47.10	56.00	8.90	36.30	46.00	9.70
2.875	N	46.30	56.00	9.70	36.20	46.00	9.80
3.255	N	45.90	56.00	10.10	35.20	46.00	10.80

Table 6-26. Line Conducted Data with 802.11a (UNII Band 1) (LN)

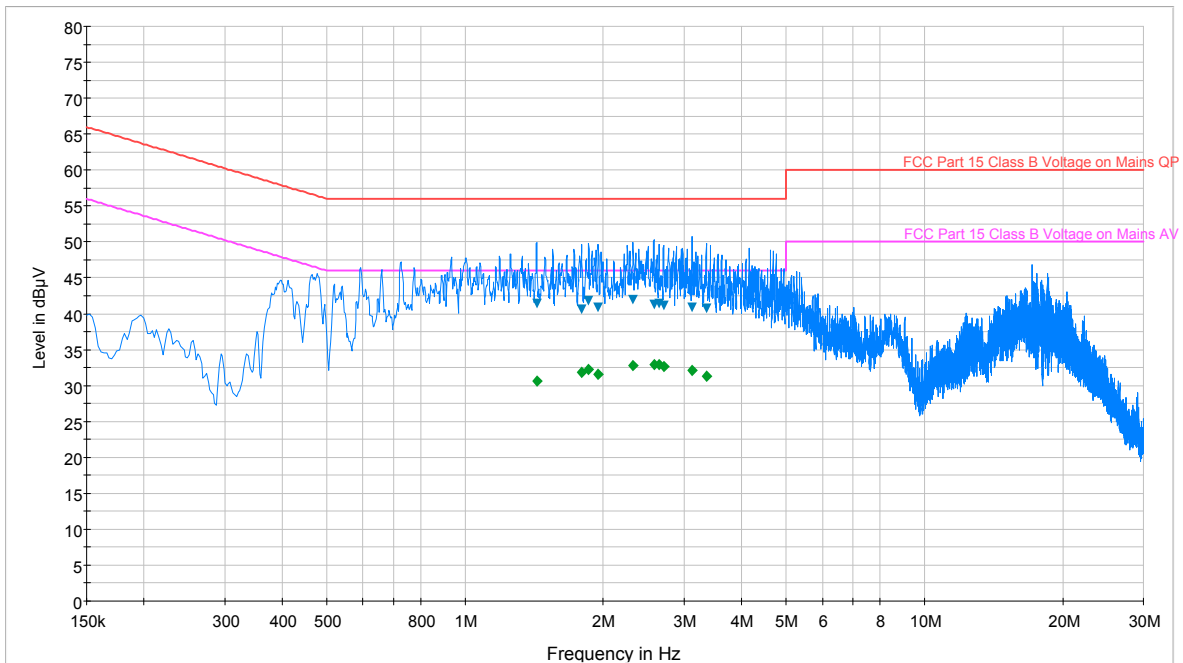
Notes:

- 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 1 = 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)

§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 6-78. 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
1.433	L1	41.40	56.00	14.60	30.60	46.00	15.40
1.793	L1	40.60	56.00	15.40	31.90	46.00	14.10
1.860	L1	41.80	56.00	14.20	32.30	46.00	13.70
1.950	L1	40.90	56.00	15.10	31.60	46.00	14.40
2.324	L1	42.00	56.00	14.00	32.80	46.00	13.20
2.578	L1	41.20	56.00	14.80	32.90	46.00	13.10
2.648	L1	41.40	56.00	14.60	32.90	46.00	13.10
2.706	L1	41.10	56.00	14.90	32.70	46.00	13.30
3.120	L1	40.90	56.00	15.10	32.10	46.00	13.90
3.352	L1	40.80	56.00	15.20	31.20	46.00	14.80

Table 6-27. Line Conducted Data with 802.11a (UNII Band 2) (L1)

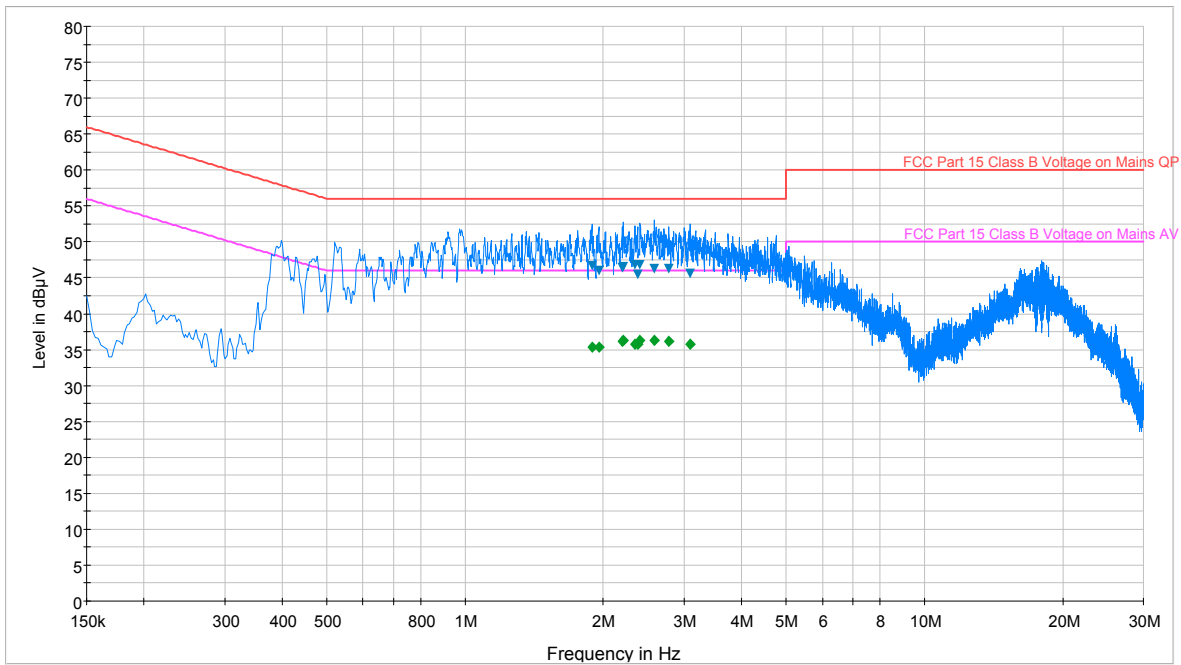
Notes:

- 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 1 = 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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§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 6-79. Line Conducted Plot with 802.11a (UNII Band 2) (LN)

Frequency MHz	Line	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
1.889	N	46.60	56.00	9.40	35.40	46.00	10.60
1.957	N	46.00	56.00	10.00	35.40	46.00	10.60
2.198	N	46.40	56.00	9.60	36.20	46.00	9.80
2.211	N	46.50	56.00	9.50	36.20	46.00	9.80
2.344	N	46.90	56.00	9.10	35.80	46.00	10.20
2.375	N	45.50	56.00	10.50	35.70	46.00	10.30
2.407	N	46.80	56.00	9.20	36.20	46.00	9.80
2.585	N	46.20	56.00	9.80	36.20	46.00	9.80
2.778	N	46.30	56.00	9.70	36.20	46.00	9.80
3.095	N	45.70	56.00	10.30	35.70	46.00	10.30

Table 6-28. Line Conducted Data with 802.11a (UNII Band 2) (LN)

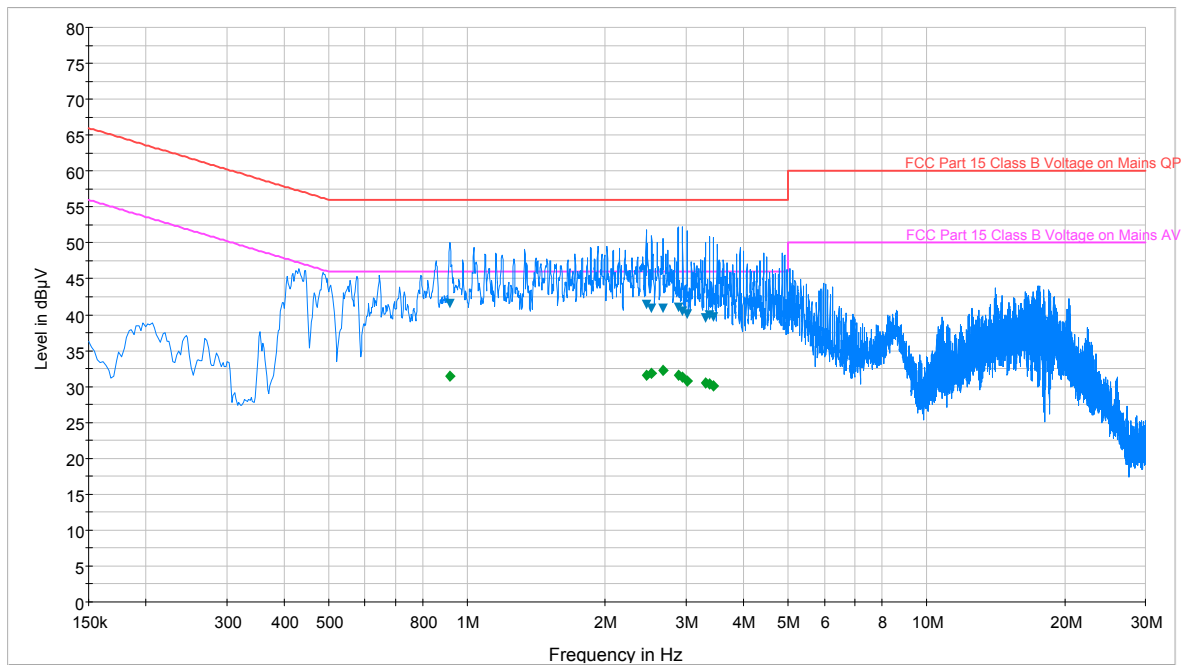
Notes:

- 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 1 = 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)

§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 6-80. 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
0.920	L1	41.50	56.00	14.50	31.50	46.00	14.50
2.459	L1	41.40	56.00	14.60	31.50	46.00	14.50
2.526	L1	40.90	56.00	15.10	31.80	46.00	14.20
2.670	L1	40.90	56.00	15.10	32.20	46.00	13.80
2.882	L1	41.00	56.00	15.00	31.60	46.00	14.40
2.949	L1	40.50	56.00	15.50	31.20	46.00	14.80
3.017	L1	40.10	56.00	15.90	30.80	46.00	15.20
3.305	L1	39.60	56.00	16.40	30.50	46.00	15.50
3.372	L1	39.90	56.00	16.10	30.30	46.00	15.70
3.440	L1	39.60	56.00	16.40	30.10	46.00	15.90

Table 6-29. Line Conducted Data with 802.11a (UNII Band 3) (L1)

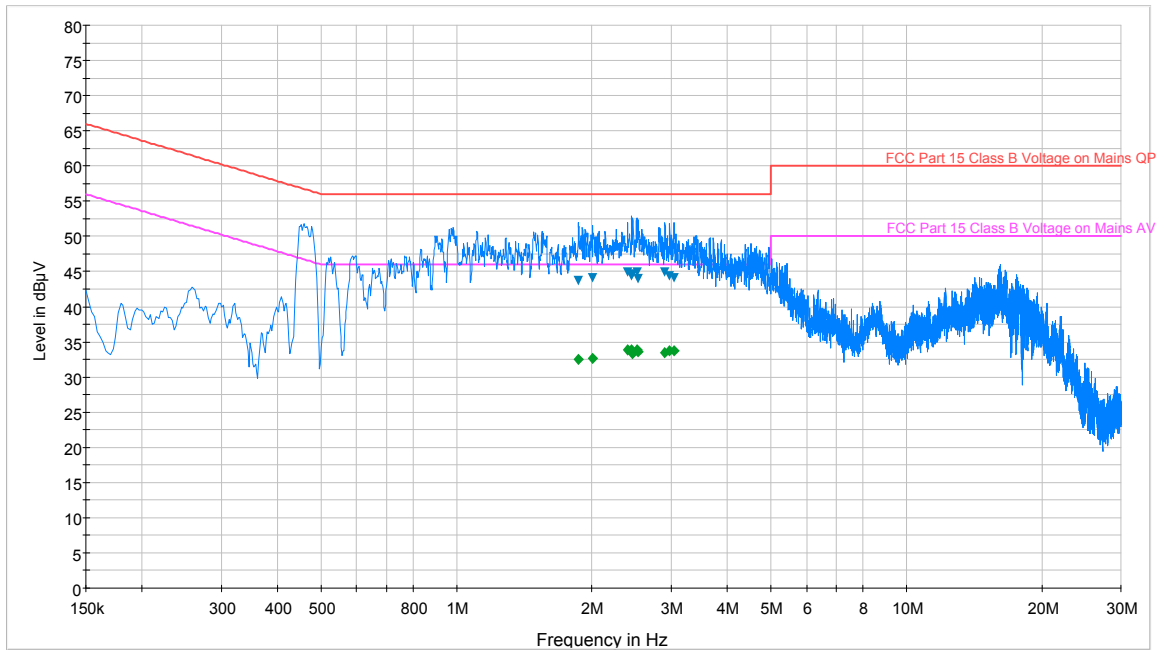
Notes:

- 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 1 = 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)

§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 6-81. Line Conducted Plot with 802.11a (UNII Band 3) (LN)

Frequency MHz	Line	QuasiPeak dBµV	Limit dBµV	Margin dB	Average dBµV	Limit dBµV	Margin dB
1.867	N	43.70	56.00	12.30	32.60	46.00	13.40
2.006	N	44.10	56.00	11.90	32.70	46.00	13.30
2.402	N	44.90	56.00	11.10	33.90	46.00	12.10
2.447	N	44.40	56.00	11.60	33.90	46.00	12.10
2.465	N	44.70	56.00	11.30	33.30	46.00	12.70
2.515	N	44.90	56.00	11.10	33.90	46.00	12.10
2.533	N	44.00	56.00	12.00	33.60	46.00	12.40
2.909	N	44.90	56.00	11.10	33.50	46.00	12.50
2.978	N	44.30	56.00	11.70	33.70	46.00	12.30
3.046	N	44.10	56.00	11.90	33.70	46.00	12.30

Table 6-30. Line Conducted Data with 802.11a (UNII Band 3) (LN)



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 1 = 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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7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSWDSC06D** is in compliance with Part 15E of the FCC Rules and RSS-210 of the Industry Canada Rules..

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