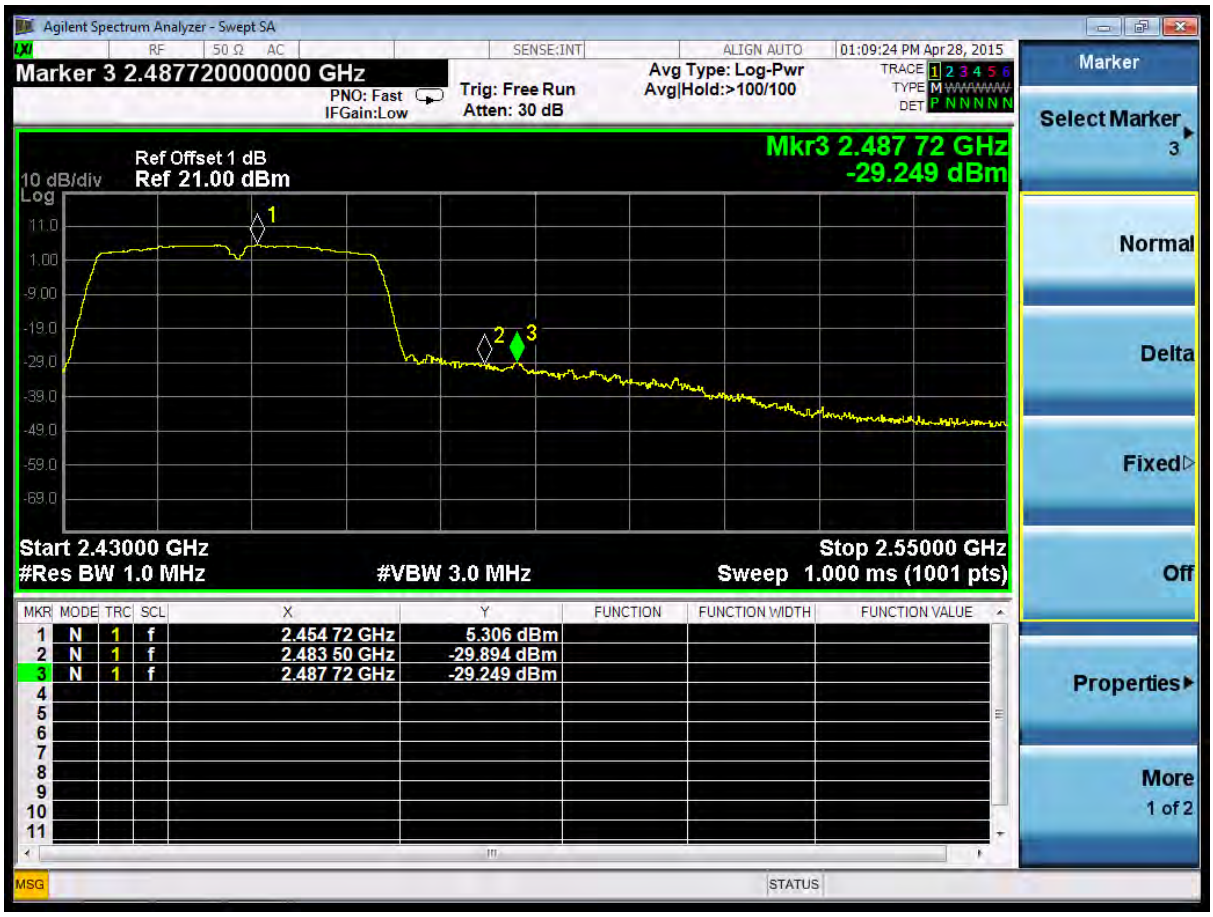
(Plot 4.6.4 A1: Channel 3: 2422MHz @ 802.11n HT40)

(Plot 4.6.4 A2: Channel 3: 2422MHz @ 802.11n HT40)

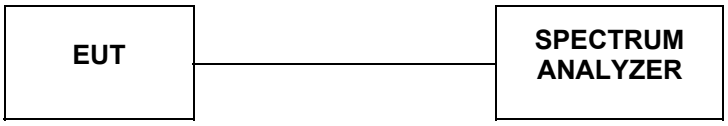


(Plot 4.6.4 A3: Channel 9: 2452MHz @ 802.11n HT40)

(Plot 4.6.4 A4: Channel 9: 2452MHz @ 802.11n HT40)

4.7. Spurious RF Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and mwasure frequeny range from 30MHz to 25GHz.

LIMIT

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

TEST RESULTS

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

4.7.1 802.11b Test Mode

A. Test Verdict

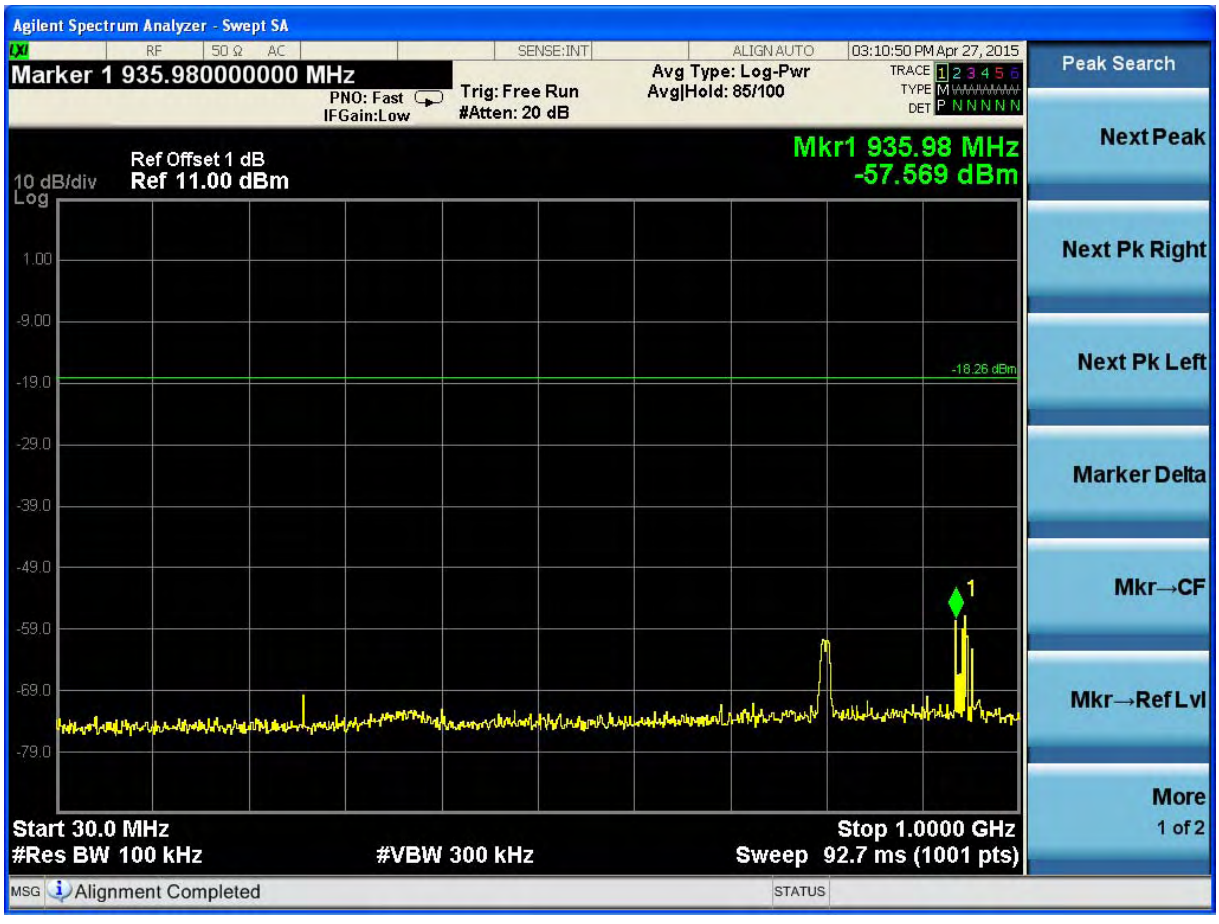
Channel	Frequency (MHz)	Frequency Range	Refer to Plot	Limit (dBc)	Verdict
1	2412	2412MHz	Plot 4.7.1 A1	N/A	PASS
		30MHz-1GHz	Plot 4.7.1 A2	-20	PASS
		1GHz-8GHz	Plot 4.7.1 A3	-20	PASS
		8GHz-15GHz	Plot 4.7.1 A4	-20	PASS
		15GHz-25GHz	Plot 4.7.1 A5	-20	PASS
6	2437	2437MHz	Plot 4.7.1 B1	N/A	PASS
		30MHz-1GHz	Plot 4.7.1 B2	-20	PASS
		1GHz-8GHz	Plot 4.7.1 B3	-20	PASS
		8GHz-15GHz	Plot 4.7.1 B4	-20	PASS
		15GHz-25GHz	Plot 4.7.1 B5	-20	PASS
11	2462	2462MHz	Plot 4.7.1 C1	N/A	PASS
		30MHz-1GHz	Plot 4.7.1 C2	-20	PASS
		1GHz-8GHz	Plot 4.7.1 C3	-20	PASS
		8GHz-15GHz	Plot 4.7.1 C4	-20	PASS
		15GHz-25GHz	Plot 4.7.1 C5	-20	PASS

Frequency (MHz)	Delta Peak to Band emission (dBc)	Detector	Limit (dBc)	Refer to Plot	Verdict
2399.61	-51.376	Peak	-20	Plot 4.7.1 D	PASS
2487.10	-59.366	Peak	-20	Plot 4.7.1 E	PASS

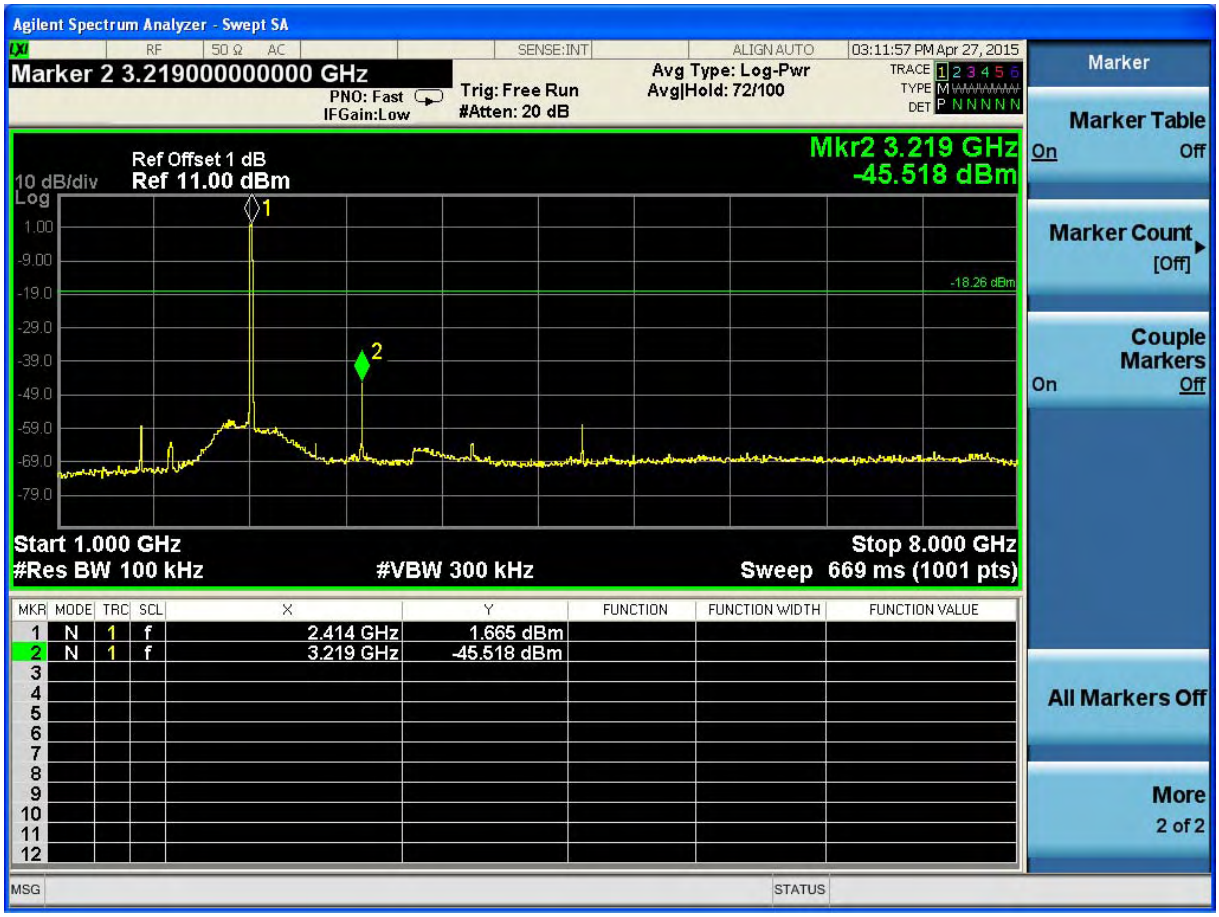
Note:
1. For 802.11b mode at finial test to get the worst-case emission at 1Mbps.
2. The test results including the cable lose.

B. Test Plots

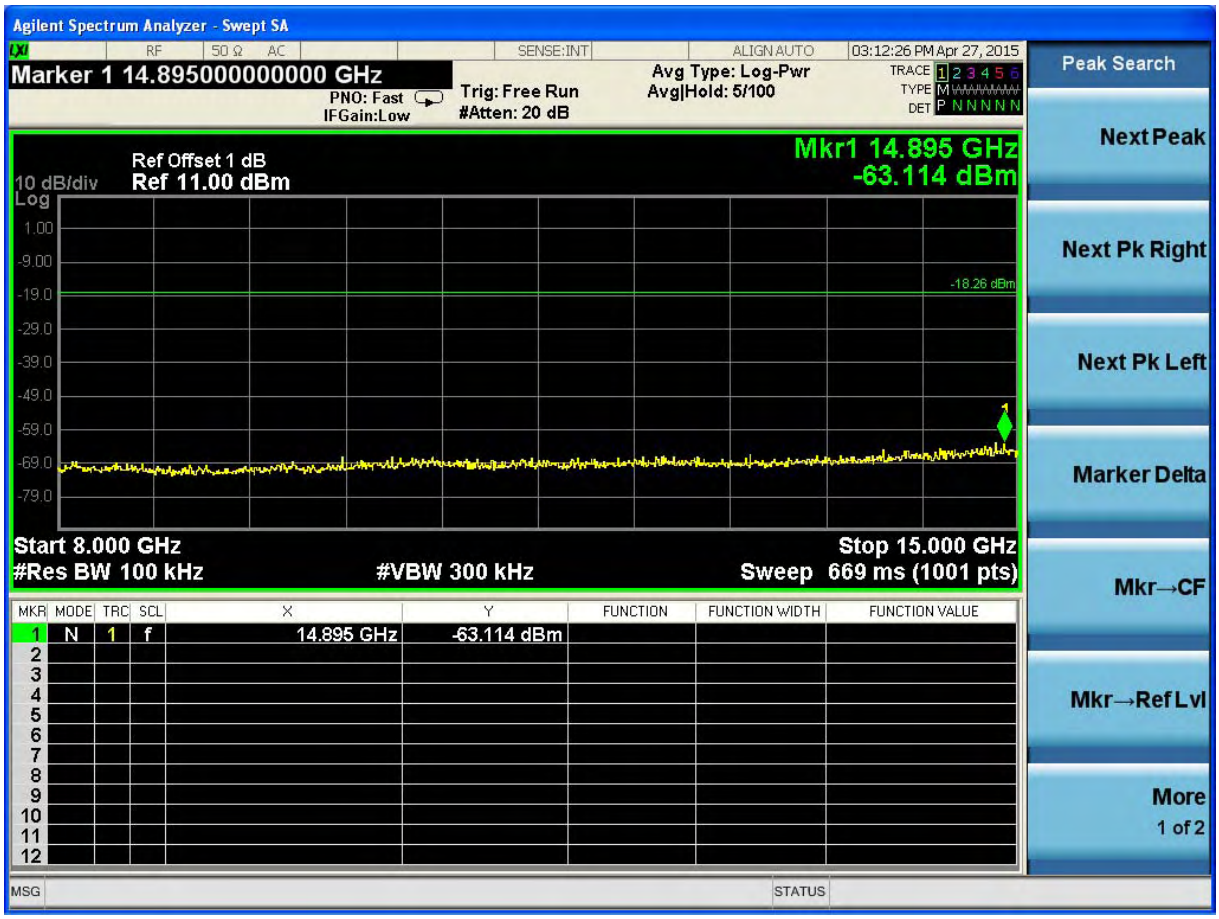
(Plot 4.7.1 A1: Channel 1: 2412MHz @ 802.11b)



(Plot 4.7.1 A2: Channel 1: 2412MHz @ 802.11b)



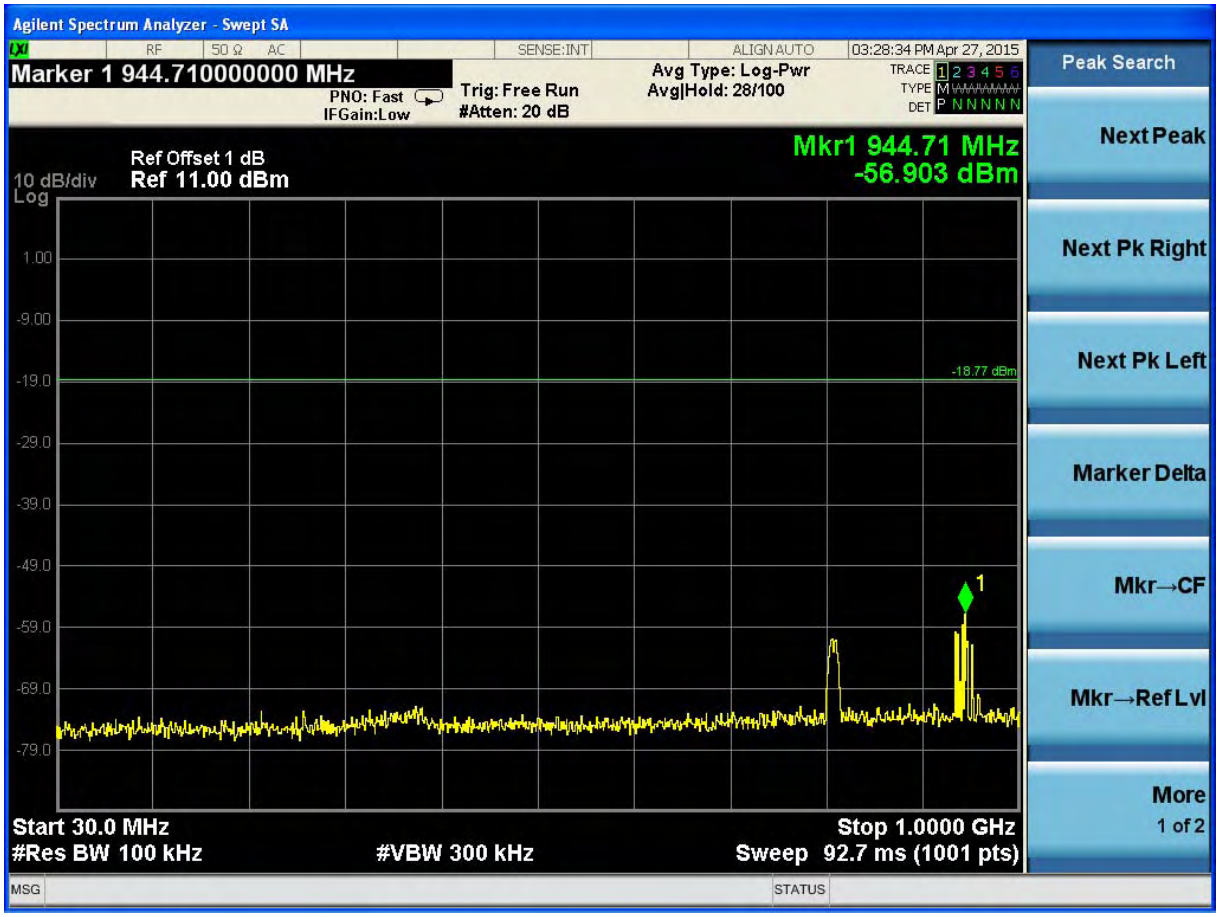
(Plot 4.7.1 A3: Channel 1: 2412MHz @ 802.11b)



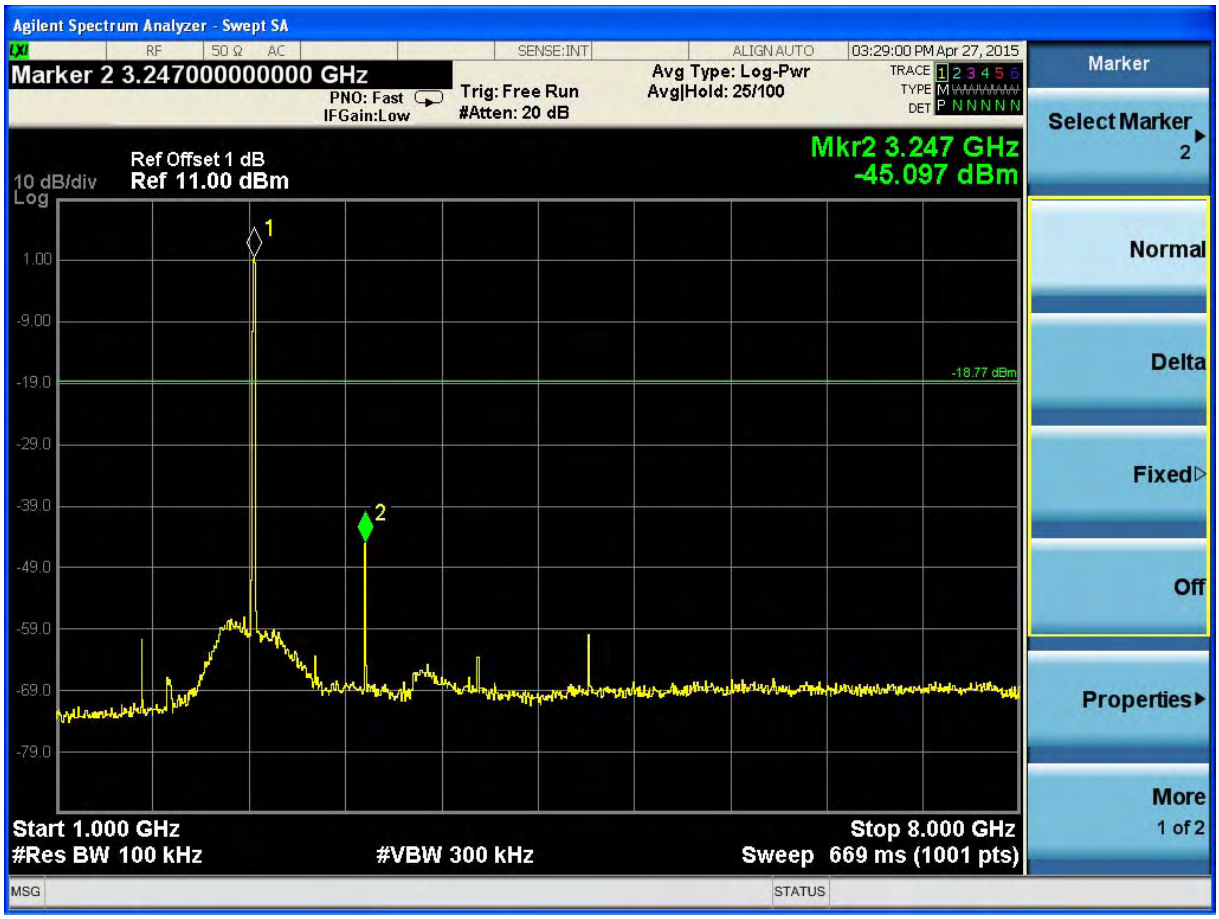
(Plot 4.7.1 A4: Channel 1: 2412MHz @ 802.11b)

(Plot 4.7.1 A5: Channel 1: 2412MHz @ 802.11b)

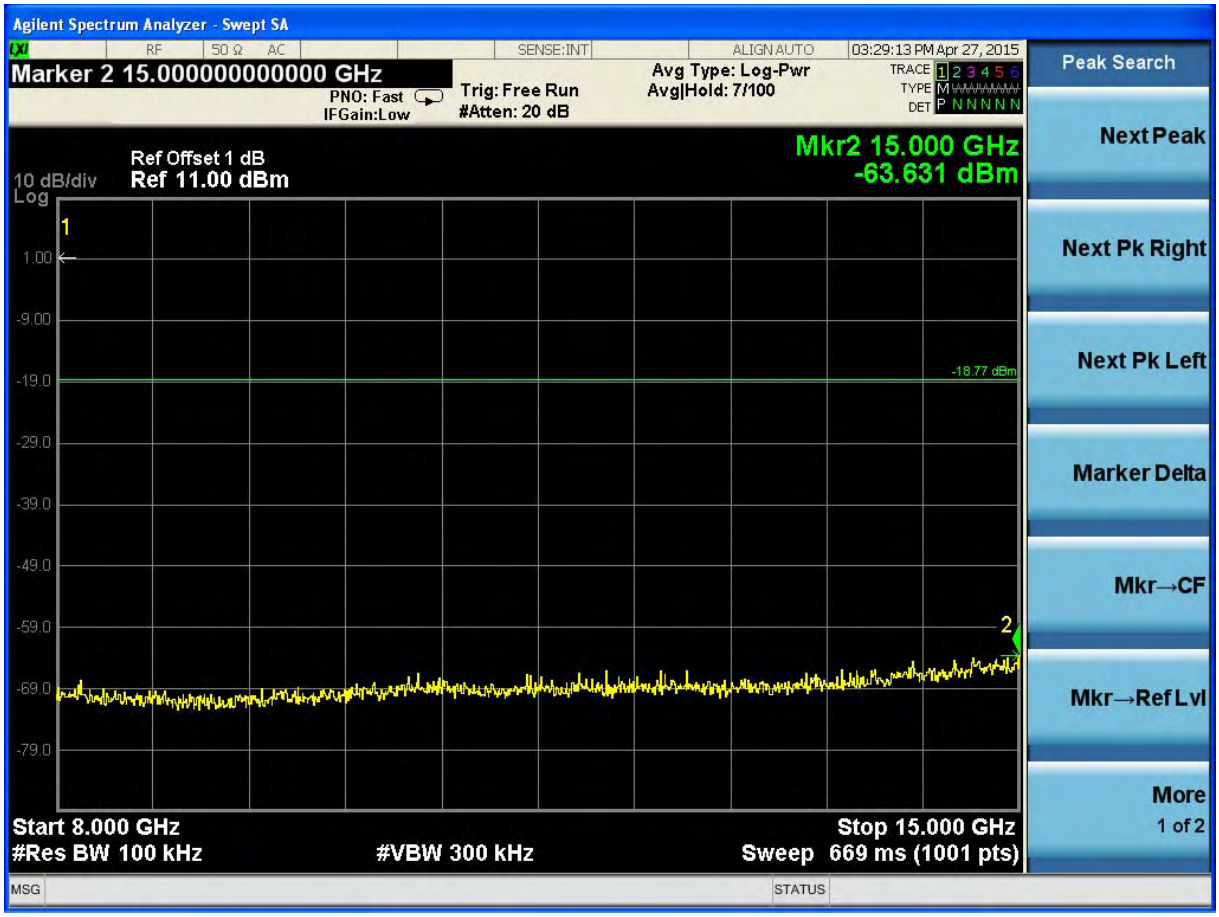
(Plot 4.7.1 B1: Channel 6: 2437MHz @ 802.11b)



(Plot 4.7.1 B2: Channel 6: 2437MHz @ 802.11b)

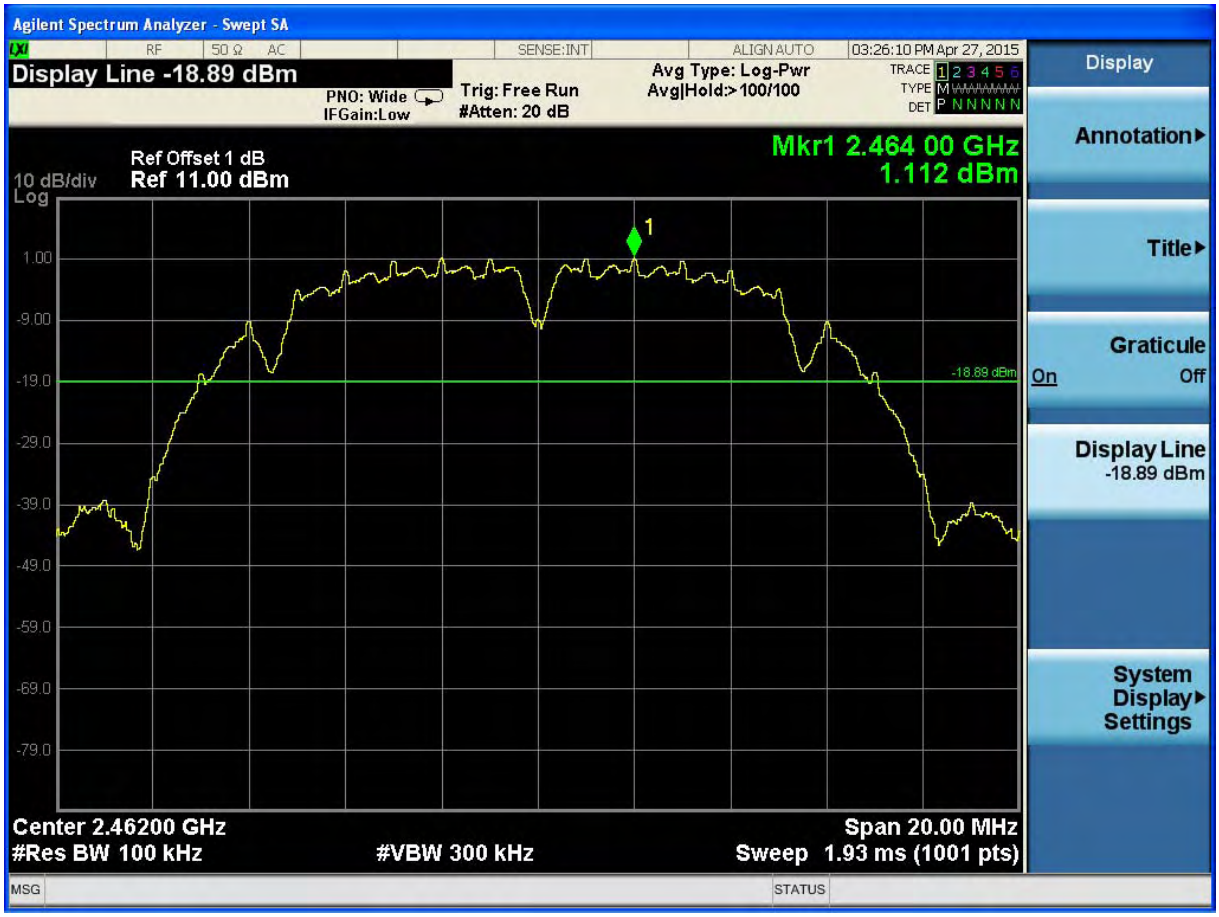


(Plot 4.7.1 B3: Channel 6: 2437MHz @ 802.11b)

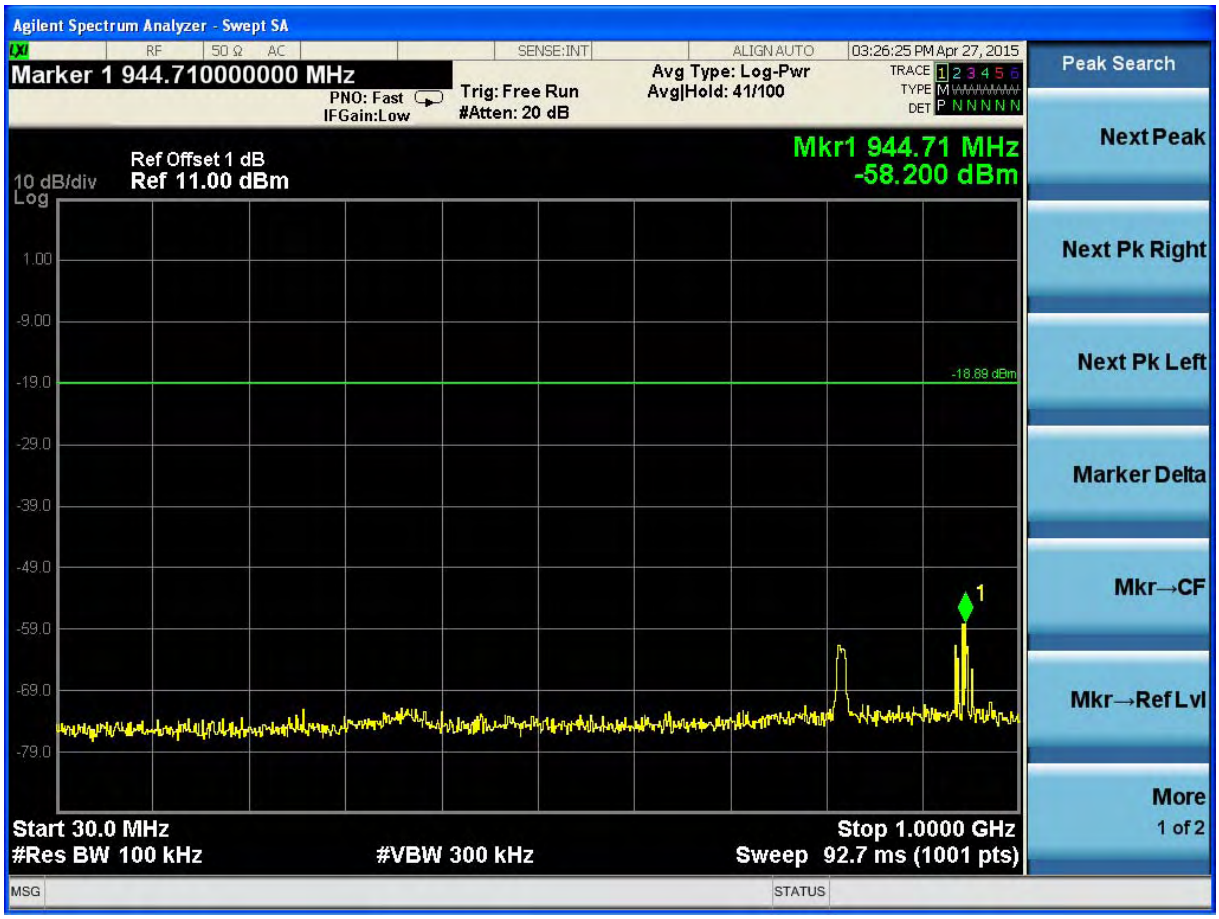


(Plot 4.7.1 B4: Channel 6: 2437MHz @ 802.11b)

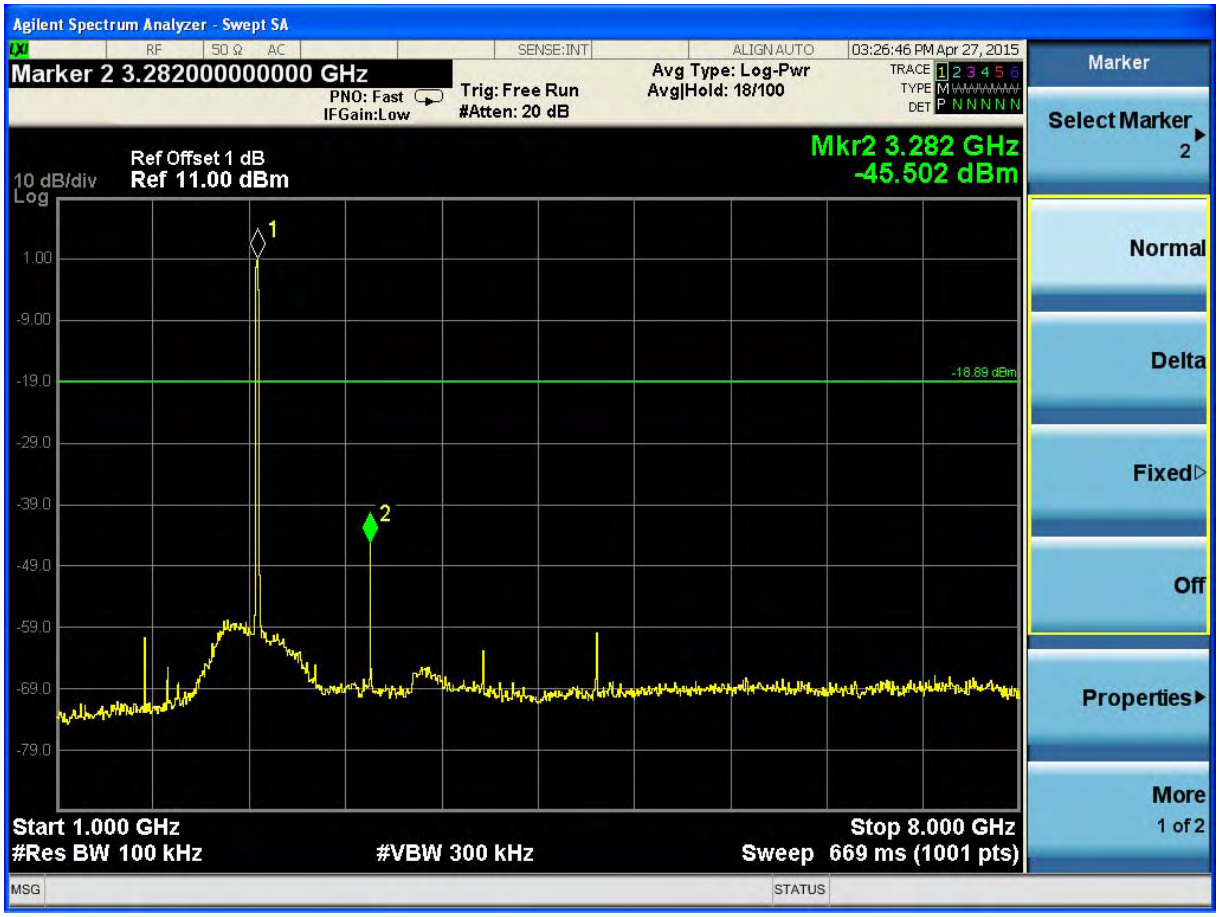
(Plot 4.7.1 B5: Channel 6: 2437MHz @ 802.11b)



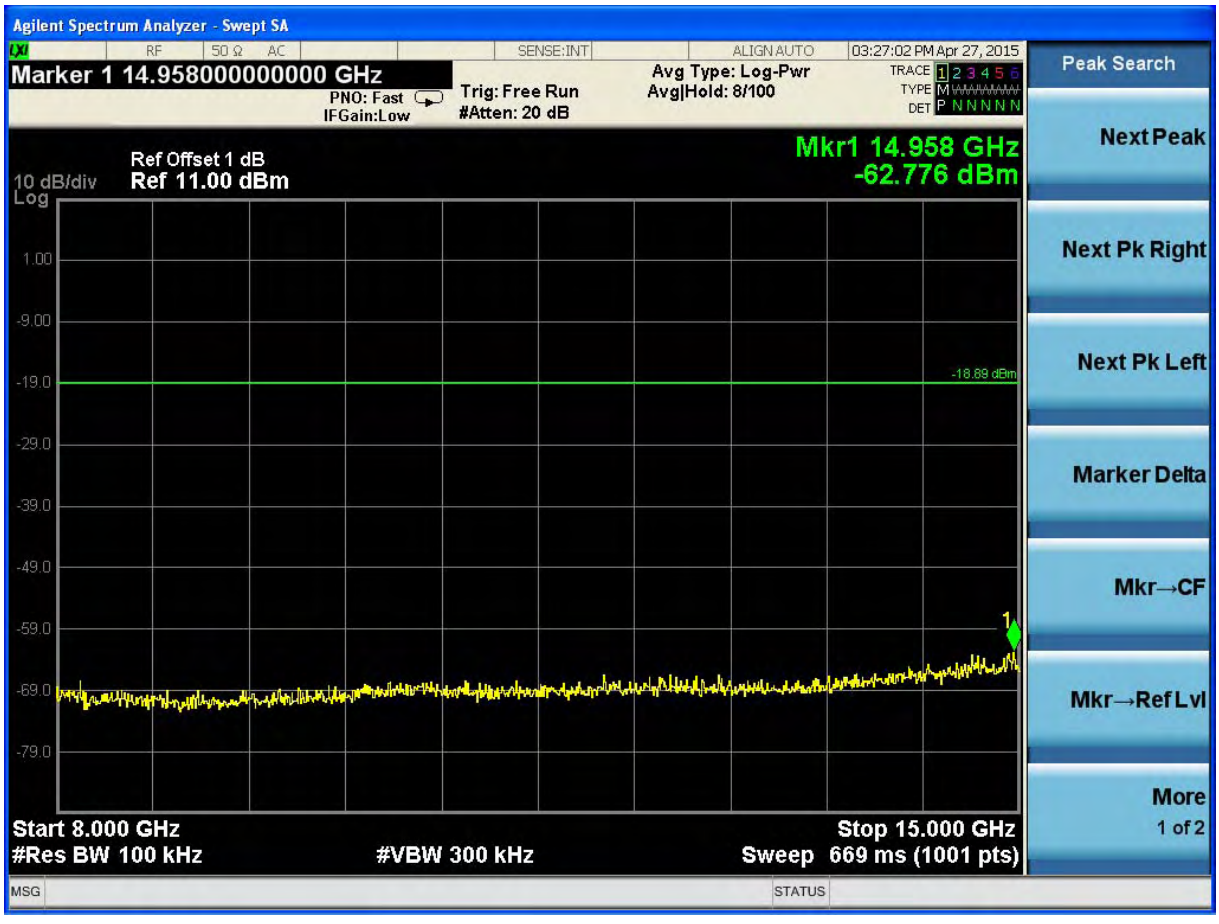
(Plot 4.7.1 C1: Channel 11: 2462MHz @ 802.11b)



(Plot 4.7.1 C2: Channel 11: 2462MHz @ 802.11b)



(Plot 4.7.1 C3: Channel 11: 2462MHz @ 802.11b)



(Plot 4.7.1 C4: Channel 11: 2462MHz @ 802.11b)

(Plot 4.7.1 C5: Channel 11: 2462MHz @ 802.11b)

(Plot 4.7.1 D: Channel 1: 2412MHz @ 802.11b)

(Plot 4.7.1 E: Channel 11: 2462MHz @ 802.11b)

4.7.2 802.11g Test Mode

A. Test Verdict

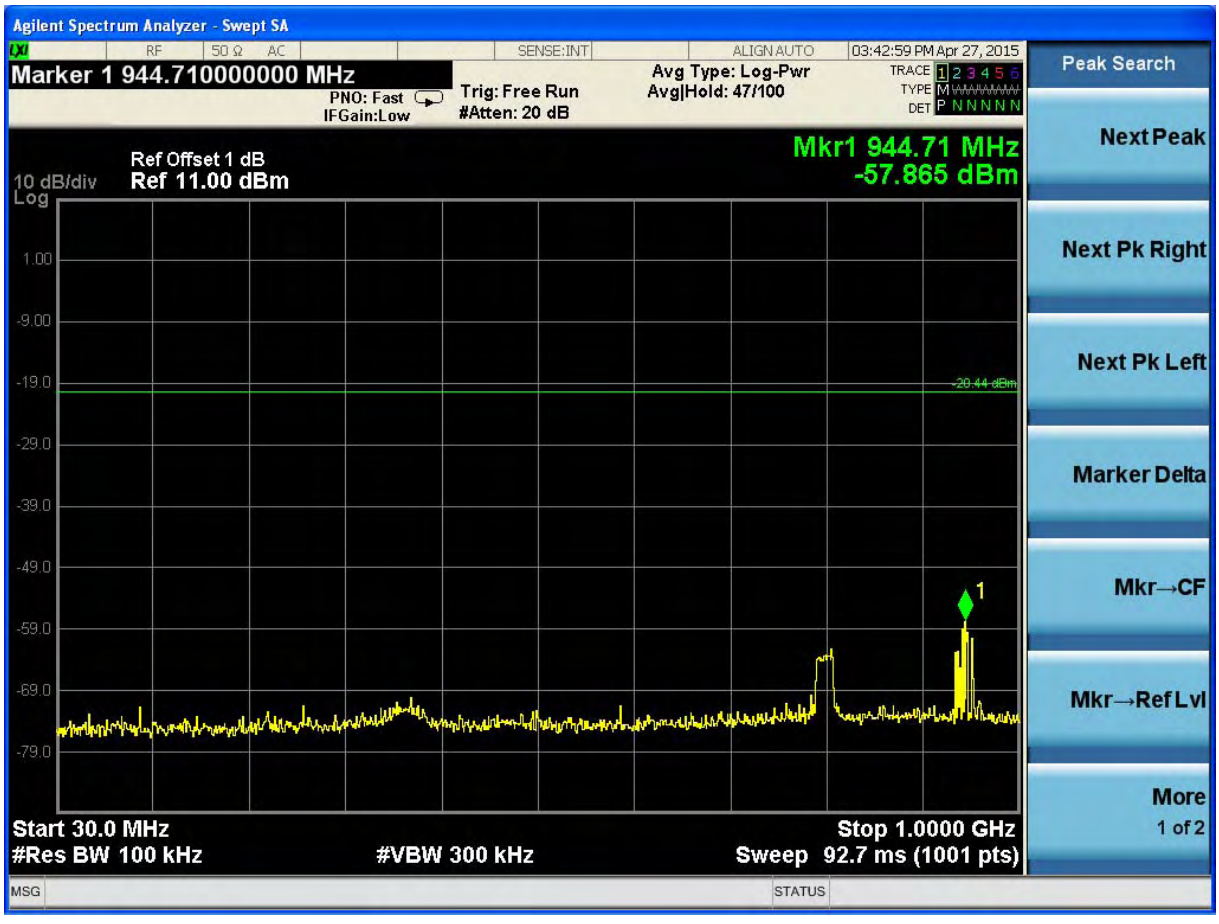
Channel	Frequency (MHz)	Frequency Range	Refer to Plot	Limit (dBc)	Verdict
1	2412	2412MHz	Plot 4.7.2 A1	N/A	PASS
		30MHz-1GHz	Plot 4.7.2 A2	-20	PASS
		1GHz-8GHz	Plot 4.7.2 A3	-20	PASS
		8GHz-15GHz	Plot 4.7.2 A4	-20	PASS
		15GHz-25GHz	Plot 4.7.2 A5	-20	PASS
6	2437	2437MHz	Plot 4.7.2 B1	N/A	PASS
		30MHz-1GHz	Plot 4.7.2 B2	-20	PASS
		1GHz-8GHz	Plot 4.7.2 B3	-20	PASS
		8GHz-15GHz	Plot 4.7.2 B4	-20	PASS
		15GHz-25GHz	Plot 4.7.2 B5	-20	PASS
11	2462	2462MHz	Plot 4.7.2 C1	N/A	PASS
		30MHz-1GHz	Plot 4.7.2 C2	-20	PASS
		1GHz-8GHz	Plot 4.7.2 C3	-20	PASS
		8GHz-15GHz	Plot 4.7.2 C4	-20	PASS
		15GHz-25GHz	Plot 4.7.2 C5	-20	PASS

Frequency (MHz)	Delta Peak to Band emission (dBc)	Detector	Limit (dBc)	Refer to Plot	Verdict
2400.00	-37.5000	Peak	-20	Plot 4.7.2 D	PASS
2483.50	-53.814	Peak	-20	Plot 4.7.2 E	PASS

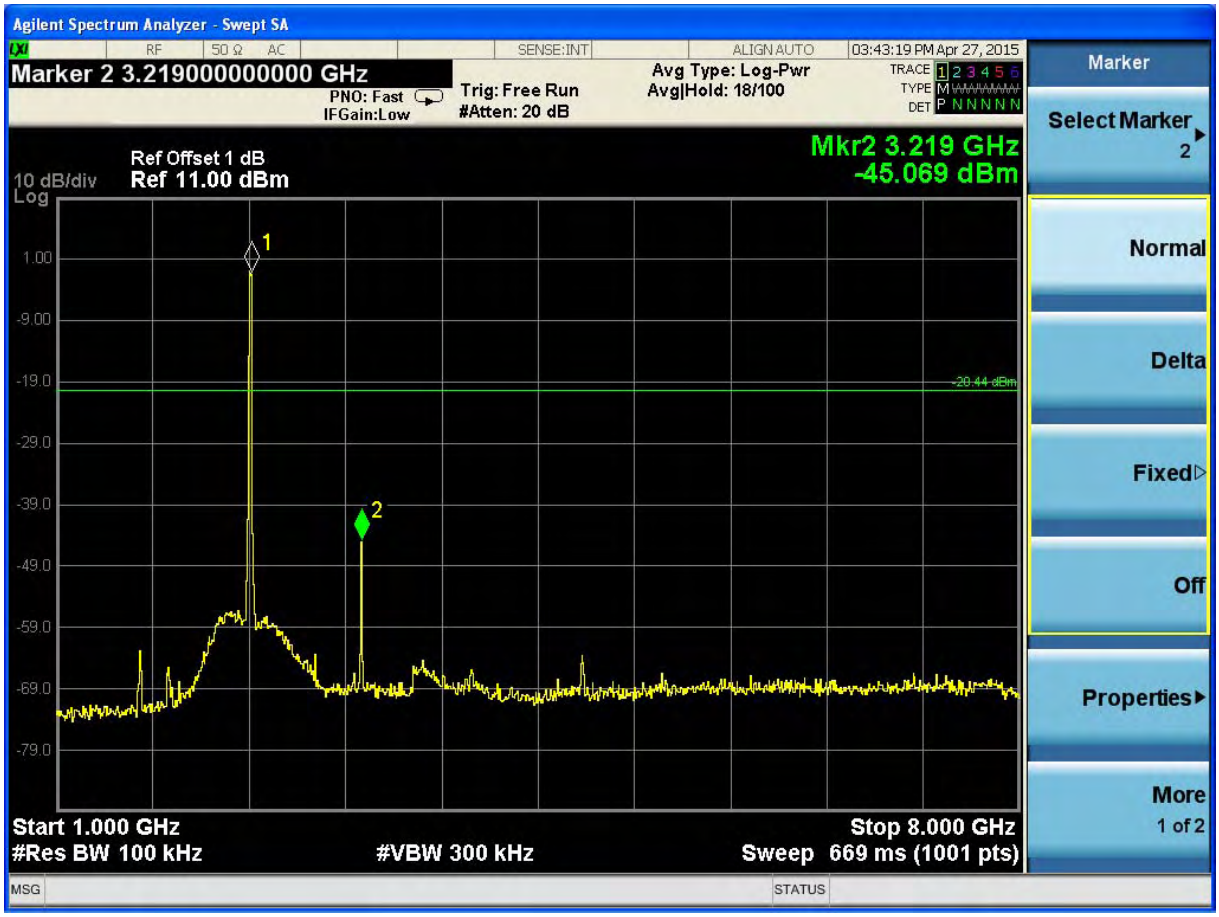
Note:
1. For 802.11g mode at finial test to get the worst-case emission at 6Mbps.
2. The test results including the cable lose.

B. Test Plots

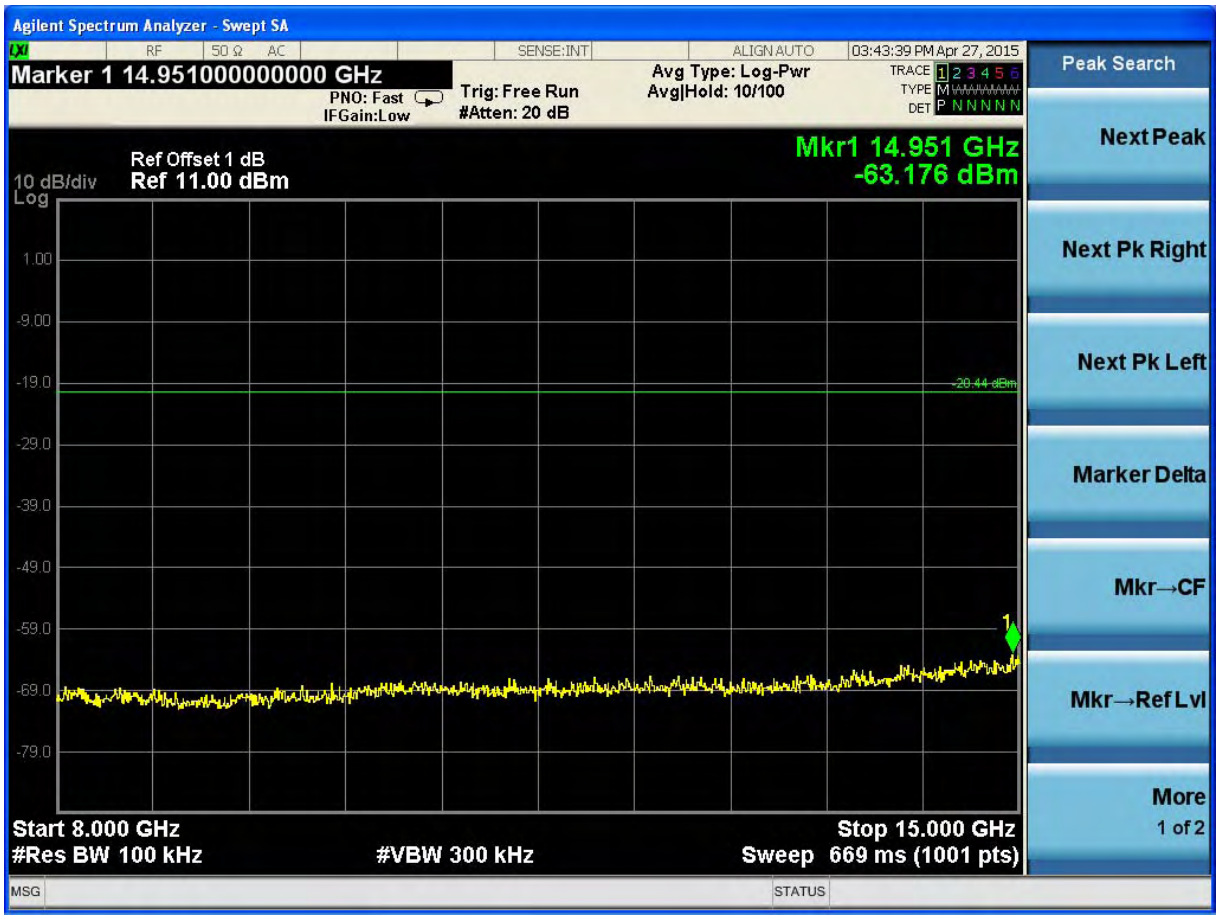
(Plot 4.7.2 A1: Channel 1: 2412MHz @ 802.11g)



(Plot 4.7.2 A2: Channel 1: 2412MHz @ 802.11g)

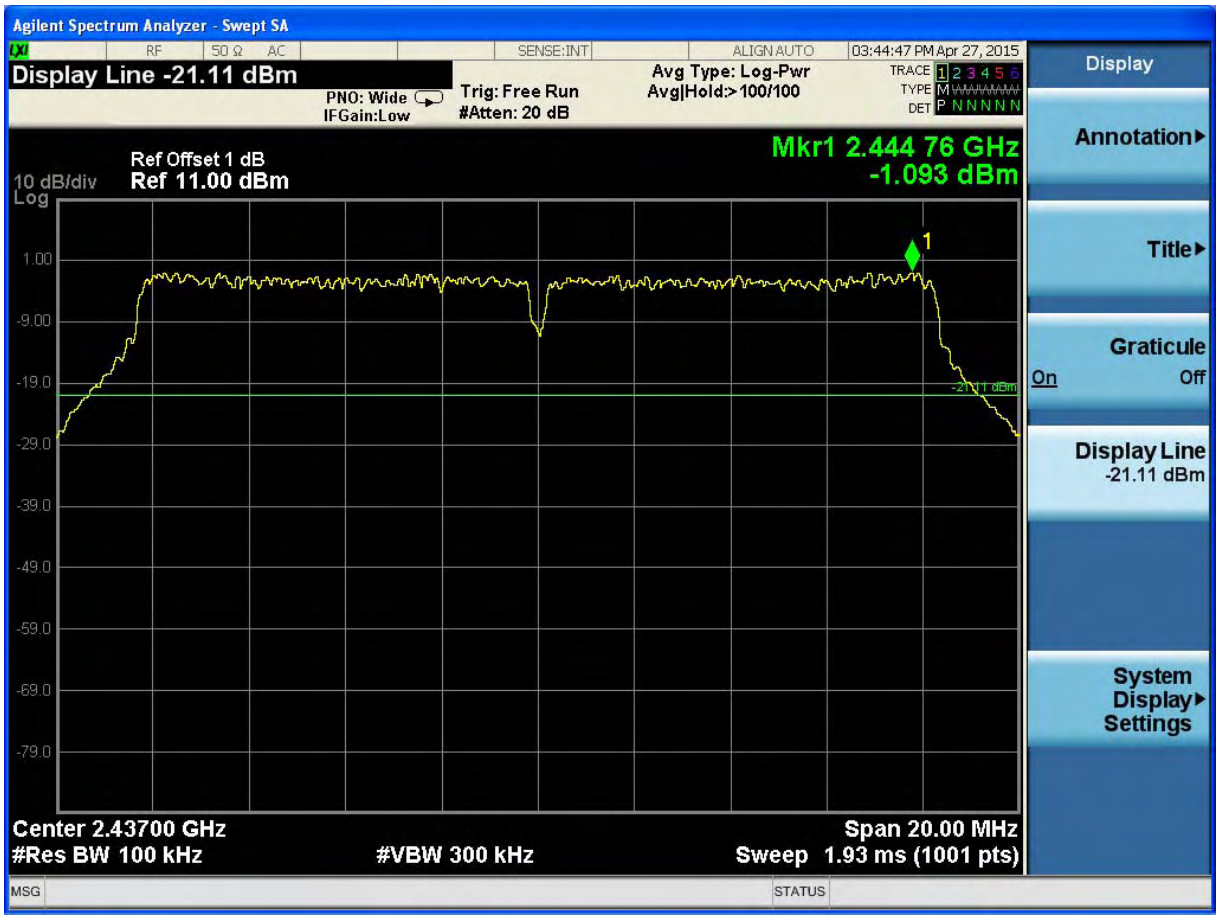


(Plot 4.7.2 A3: Channel 1: 2412MHz @ 802.11g)

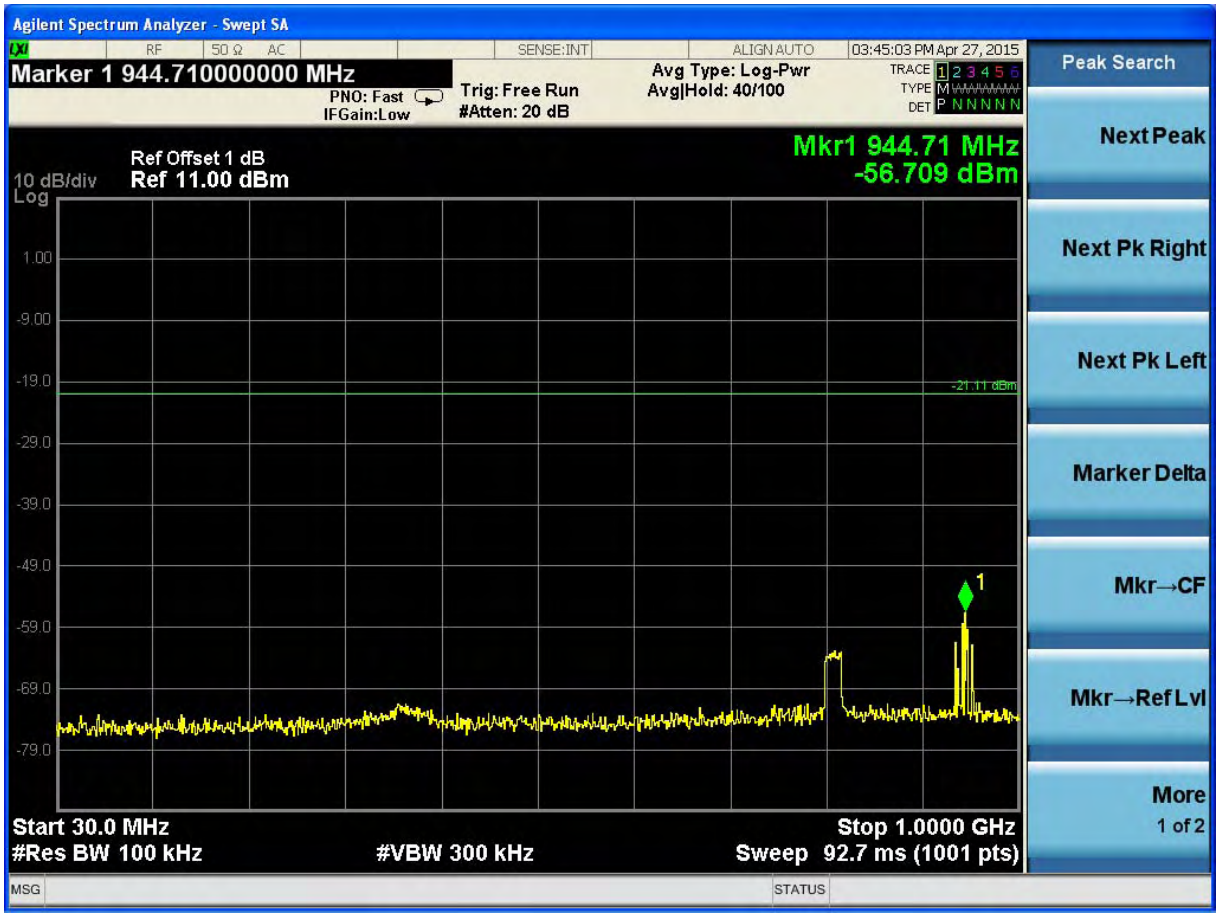


(Plot 4.7.2 A4: Channel 1: 2412MHz @ 802.11g)

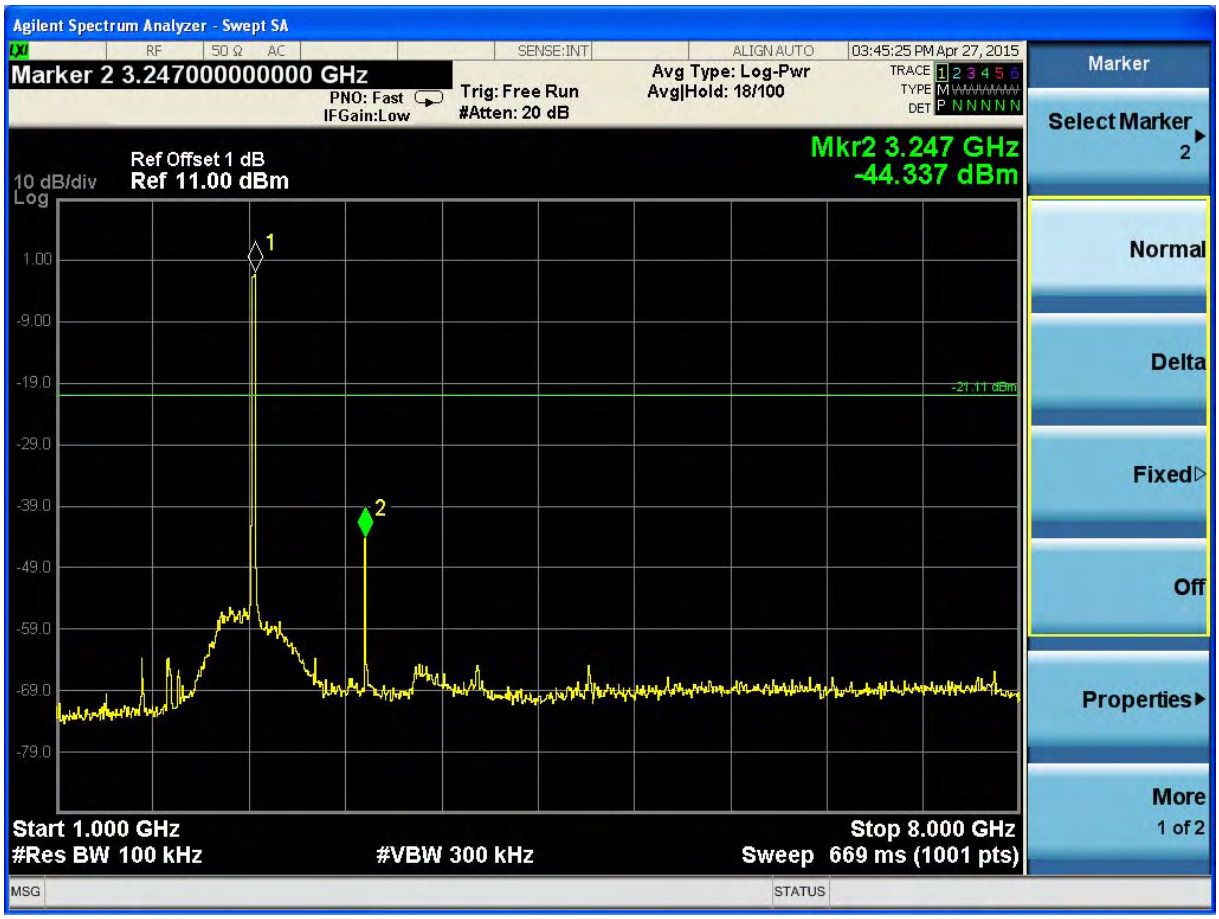
(Plot 4.7.2 A5: Channel 1: 2412MHz @ 802.11g)



(Plot 4.7.2 B1: Channel 6: 2437MHz @ 802.11g)



(Plot 4.7.2 B2: Channel 6: 2437MHz @ 802.11g)

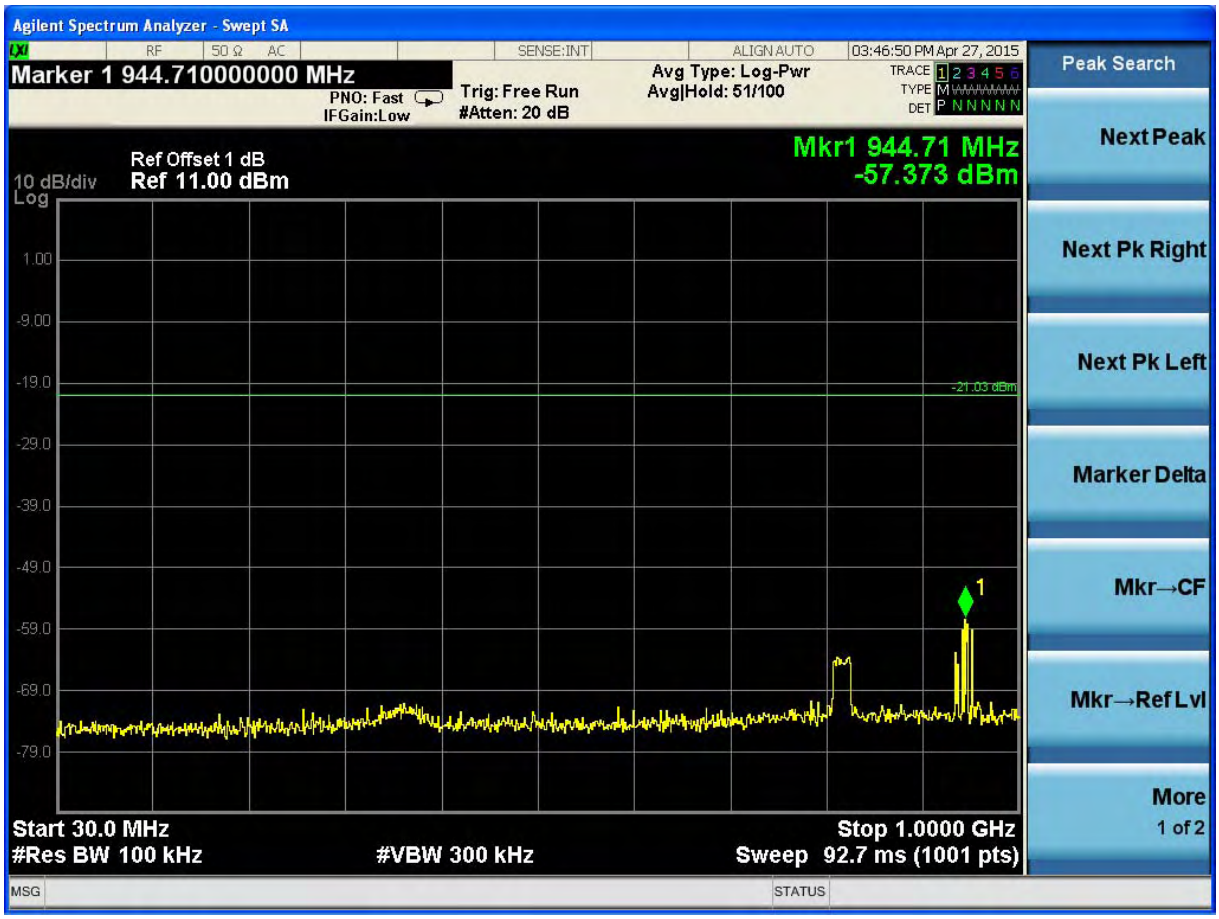


(Plot 4.7.2 B3: Channel 6: 2437MHz @ 802.11g)

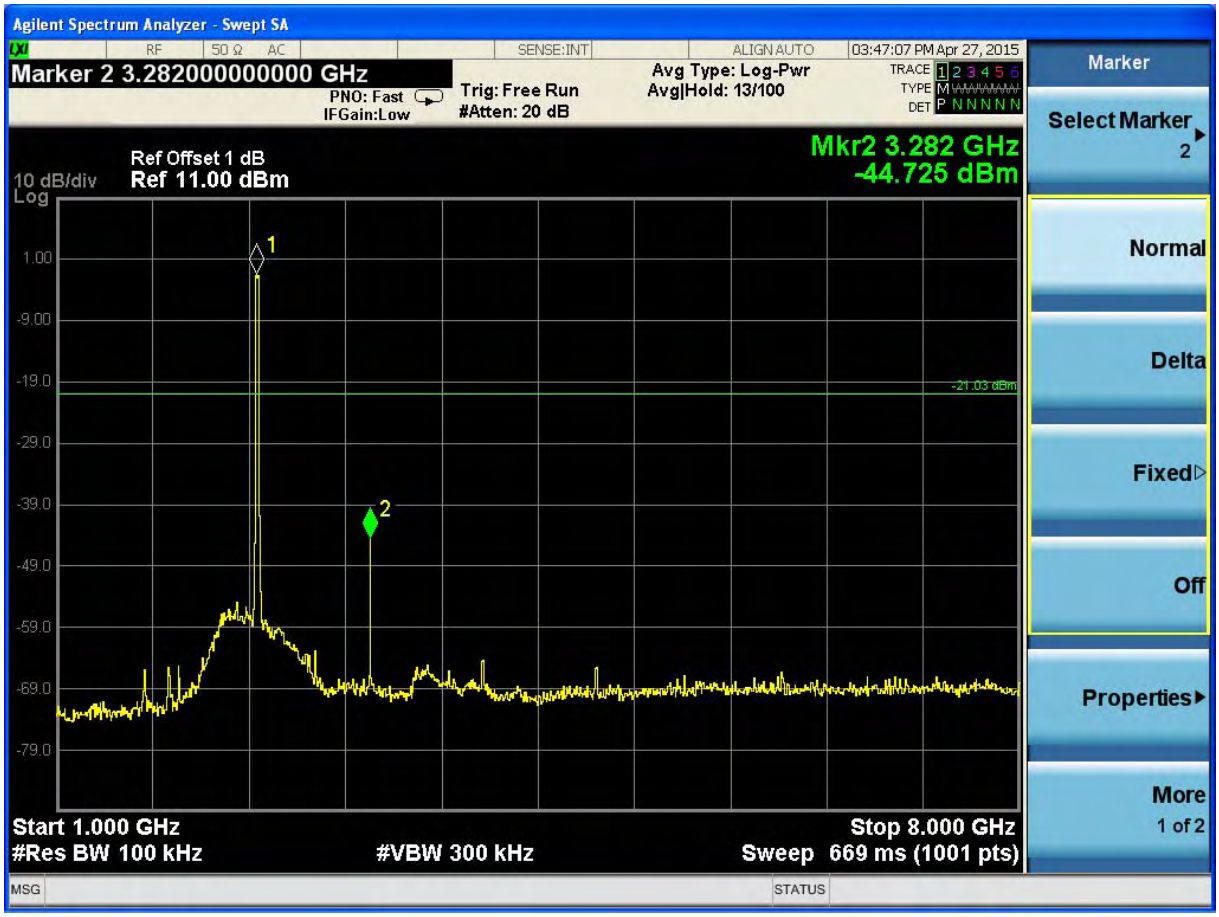
(Plot 4.7.2 B4: Channel 6: 2437MHz @ 802.11g)

(Plot 4.7.2 B5: Channel 6: 2437MHz @ 802.11g)

(Plot 4.7.2 C1: Channel 11: 2462MHz @ 802.11g)



(Plot 4.7.2 C2: Channel 11: 2462MHz @ 802.11g)



(Plot 4.7.2 C3: Channel 11: 2462MHz @ 802.11g)

(Plot 4.7.2 C4: Channel 11: 2462MHz @ 802.11g)

(Plot 4.7.2 C5: Channel 11: 2462MHz @ 802.11g)

(Plot 4.7.2 D: Channel 1: 2412MHz @ 802.11g)