

FCC Part 15C Measurement and Test Report

For

KZ Broadband Technologies, Ltd.

1601 Tower C, Skyworth Building, High-tech Industrial Park, Nanshan

District, Shenzhen, China

FCC ID: A28AM4000MHGW

FCC Rule(s):	<u>FCC Part 15C</u>
Product Description:	<u>Home Gateway</u>
Tested Model:	<u>AirMaster 4000M</u>
Report No.:	<u>STR16048222I-1</u>
Tested Date:	<u>2016-04-29 to 2016-05-12</u>
Issued Date:	<u>2016-05-12</u>
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: KZ Broadband Technologies, Ltd.
 Address of applicant: 1601 Tower C, Skyworth Building, High-tech Industrial Park, Nanshan District, Shenzhen, China

Manufacturer: KZ Broadband Technologies, Ltd.
 Address of manufacturer: 1601 Tower C, Skyworth Building, High-tech Industrial Park, Nanshan District, Shenzhen, China

General Description of EUT	
Product Name:	Home Gateway
Trade Name:	AirMaster
Model No.:	AirMaster 4000M
Adding Model(s):	AirMaster 4000M ROUTER,GWG130WV,AM4000M XXX,AM4000W XXX
Rated Voltage:	DC 24V/1.0A
Power Adaptor:	Model: SAW24-240-1000
	INPUT: AC100-240V 50/60Hz,0.8A
	OUTPUT: DC24V/1.0A
<p><i>Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model AirMaster 4000M but the circuit and the electronic construction do not change, declared by the manufacturer.</i></p>	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20) 2422-2452MHz for 802.11n(HT40)
RF Output Power:	18.38 dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels:	11 for 802.11b/g/n(HT20), 7 for 802.11n(HT40)
Channel Separation:	5MHz
Type of Antenna:	Integral Antenna
Antenna Gain:	3.0dBi
Lowest Internal Frequency of EUT:	20MHz

1.2 Test Standards

The following report is prepared on behalf of the KZ Broadband Technologies, Ltd. in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. The measurement guide KDB 558074 D01 V03r05 for digital transmission systems and KDB 662911 D01 Multiple Transmitter Output v02r01 shall be performed also.

1.4 Test Facility

FCC – Registration No.: 934118

Shenzhen SEM.Test Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 934118.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM.Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

CNAS Registration No.: L4062

Shenzhen SEM.Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101).

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11b	2412MHz, 2437MHz, 2462MHz
TM2	802.11g	2412MHz, 2437MHz, 2462MHz
TM3	802.11n-HT20	2412MHz, 2437MHz, 2462MHz
TM4	802.11n-HT40	2422MHz, 2437MHz, 2452MHz

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
Adapter Cable	1.5	Unshielded	With Ferrite
RJ45	1.5	Shielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
PC	DELL	OPTIPLEX 380	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	$\pm 2.88\text{dB}$
Transmitter Spurious Emissions	Radiated	$\pm 5.1\text{dB}$

1.7 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Spectrum Analyzer	Agilent	E4407B	MY41440400	2015-06-17	2016-06-16
Spectrum Analyzer	Rohde & Schwarz	FSP	836079/035	2015-06-17	2016-06-16
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2015-06-17	2016-06-16
Amplifier	Agilent	8447F	3113A06717	2015-06-17	2016-06-16
Amplifier	C&D	PAP-1G18	2002	2015-06-17	2016-06-16
Broadband Antenna	Schwarz beck	VULB9163	9163-333	2015-06-17	2016-06-16
Horn Antenna	ETS	3117	00086197	2015-06-17	2016-06-16
Horn Antenna	ETS	3116B	00088203	2015-06-17	2016-06-16
Loop Antenna	Schwarz beck	FMZB 1516	9773	2015-06-17	2016-06-16
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2015-06-17	2016-06-16
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2015-06-17	2016-06-16
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2015-06-17	2016-06-16

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 2.1093	RF Exposure	Compliant
§ 15.203; § 15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.247(e)	Power Spectral Density	Compliant
§ 15.247(a)(2)	6 dB Bandwidth	Compliant
§ 15.247(b)(3)	RF Output Power	Compliant
§ 15.209(a)	Radiated Emission	Compliant
§ 15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: not applicable

3. RF Exposure

3.1 Standard Applicable

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the RF Exposure Report.

4. Antenna Requirement

4.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

4.2 Evaluation Information

This product has two integral antennas, fulfill the requirement of this section.

5. Power Spectral Density

5.1 Standard Applicable

According to 15.247(a)(1)(iii), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.2 Test Procedure

According to the KDB 558074 D01 v03r05, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set VBW $\geq 3 \times \text{RBW}$.
- e) Detector = power averaging (RMS) or sample detector (when RMS not available).
- f) Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- g) Sweep time = auto couple.
- h) Employ trace averaging (RMS) mode over a minimum of 100 traces.
- i) Use the peak marker function to determine the maximum amplitude level.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

5.3 Environmental Conditions

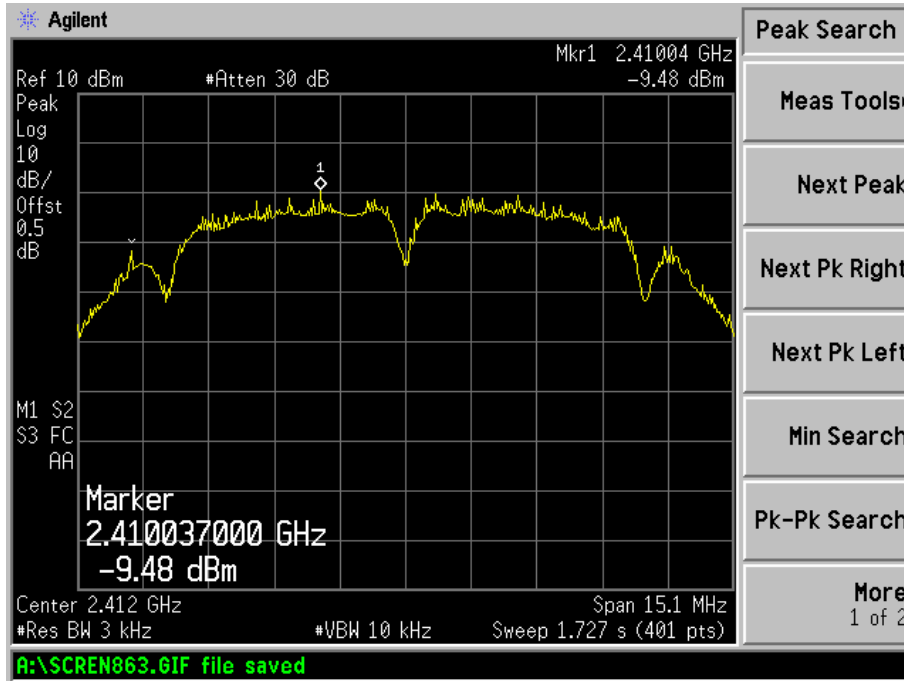
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

5.4 Summary of Test Results/Plots

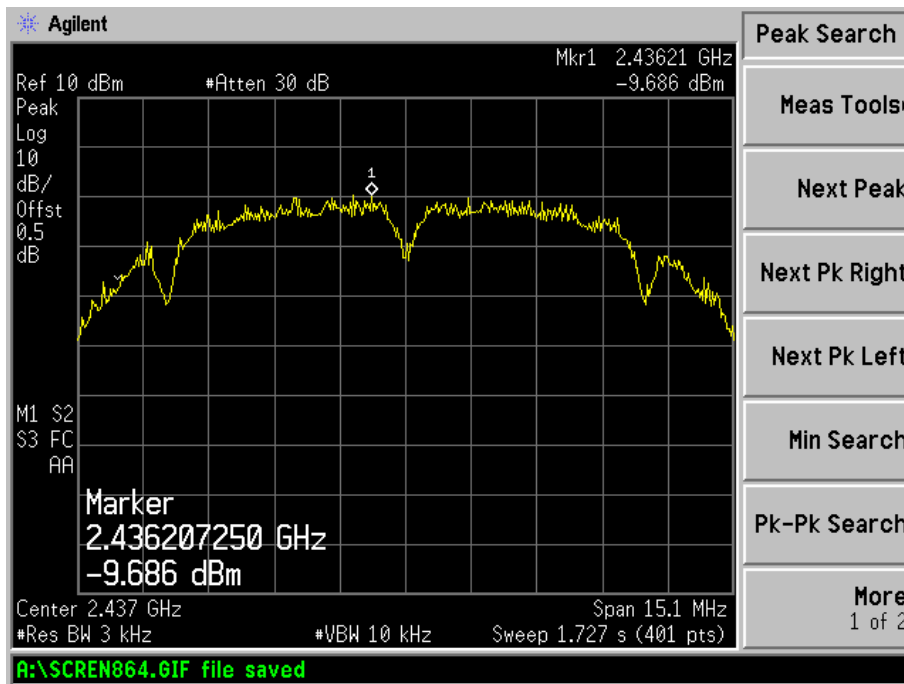
Test Mode	Test Channel MHz	Antenna Port	Power Spectral Density dBm/3kHz	Combine spectral density (dBm/3kHz)	Limit dBm/3kHz
802.11b	2412	0	-9.48	/	8
		1	-8.512		8
	2437	0	-9.686	/	8
		1	-8.727		8
	2462	0	-8.645	/	8
		1	-8.147		8
802.11g	2412	0	-9.518	/	8
		1	-10.03		8
	2437	0	-9.531	/	8
		1	-10.35		8
	2462	0	-10.02	/	8
		1	-9.946		8
802.11n HT20	2412	0	-9.41	-8.02	8
		1	-13.64		8
	2437	0	-10.12	-7.43	8
		1	-10.79		8
	2462	0	-10.53	-7.32	8
		1	-10.13		8
802.11n HT40	2422	0	-12.64	-9.76	8
		1	-12.91		8
	2437	0	-12.59	-10.20	8
		1	-13.93		8
	2452	0	-13.18	-10.02	8
		1	-12.88		8

Please refer to the following test plots:

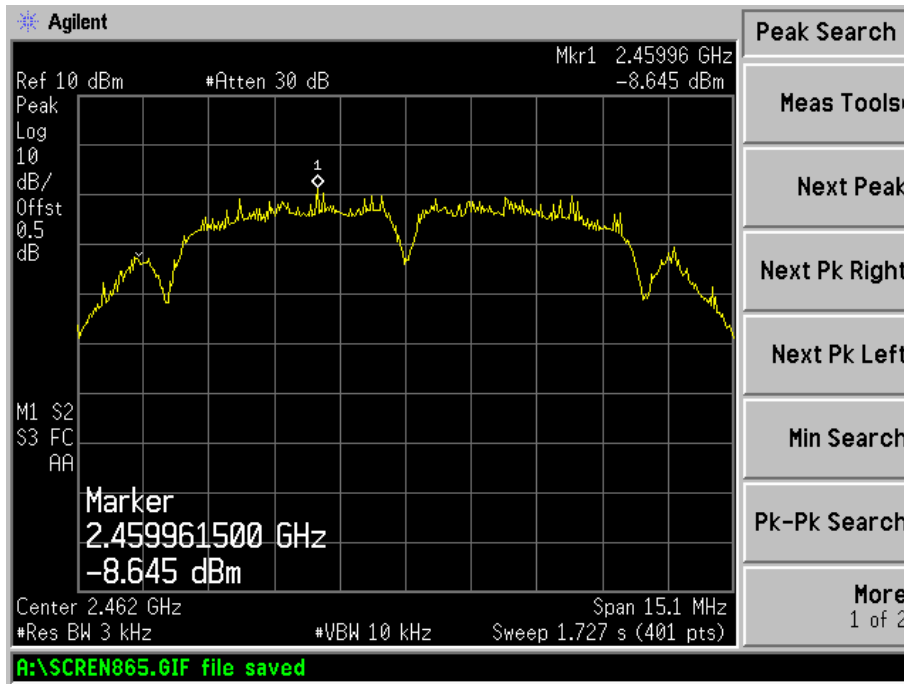
For Antenna 0
802.11b-Low Channel



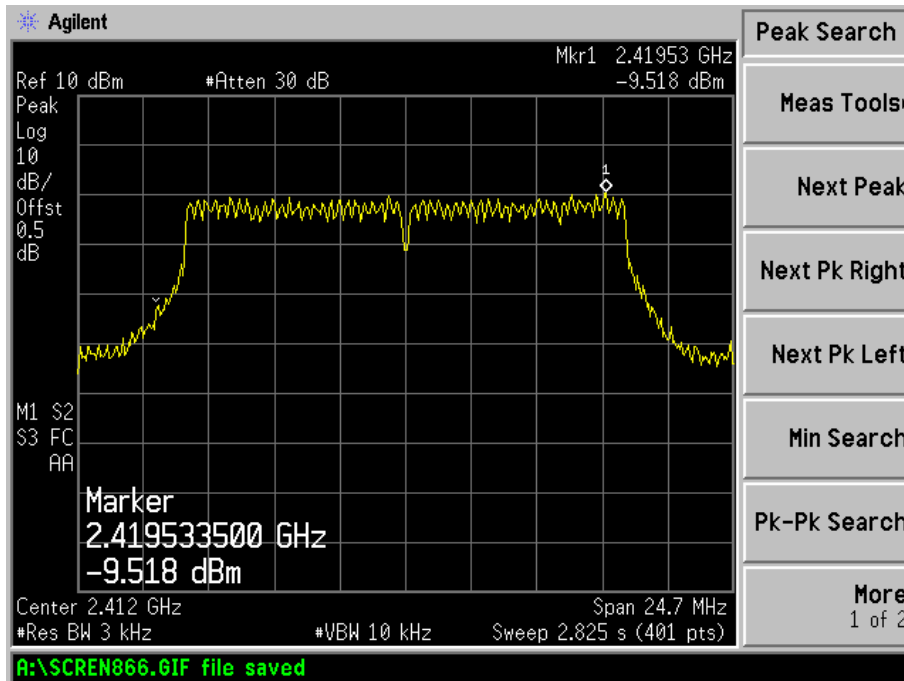
802.11b-Middle Channel



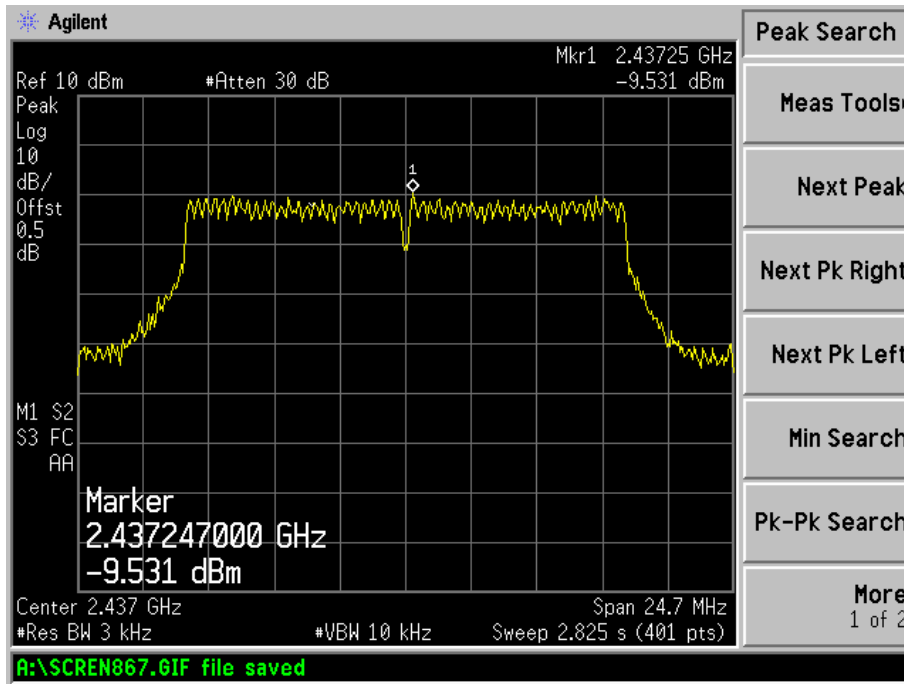
802.11b-High Channel



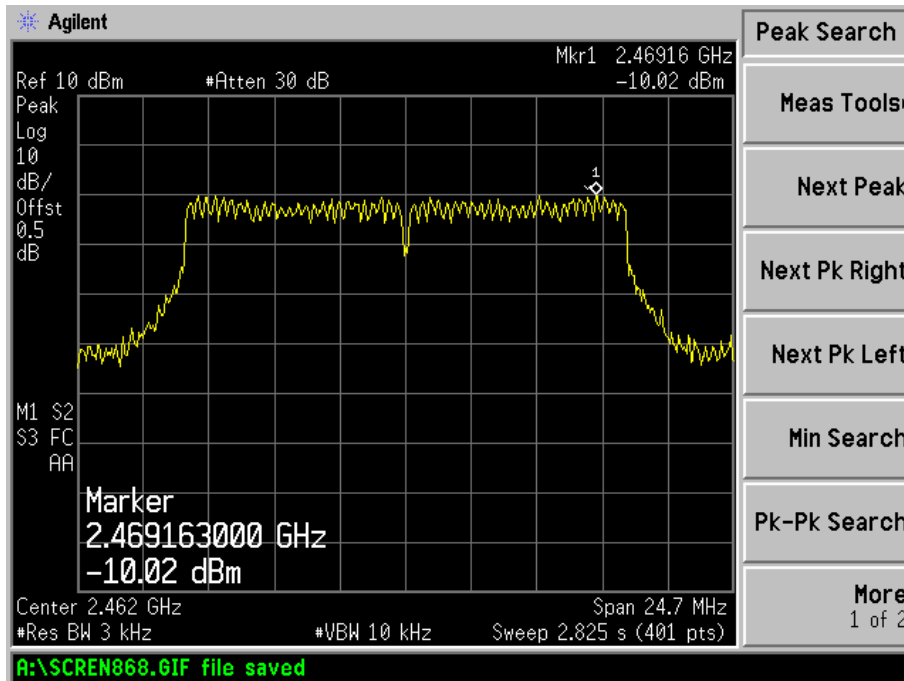
802.11g-Low Channel



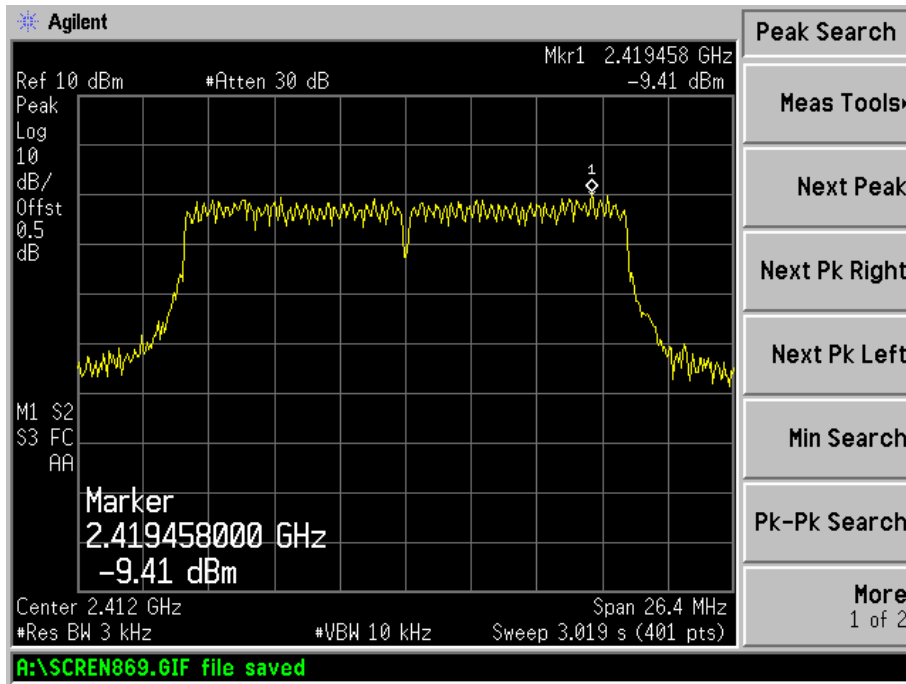
802.11g-Middle Channel



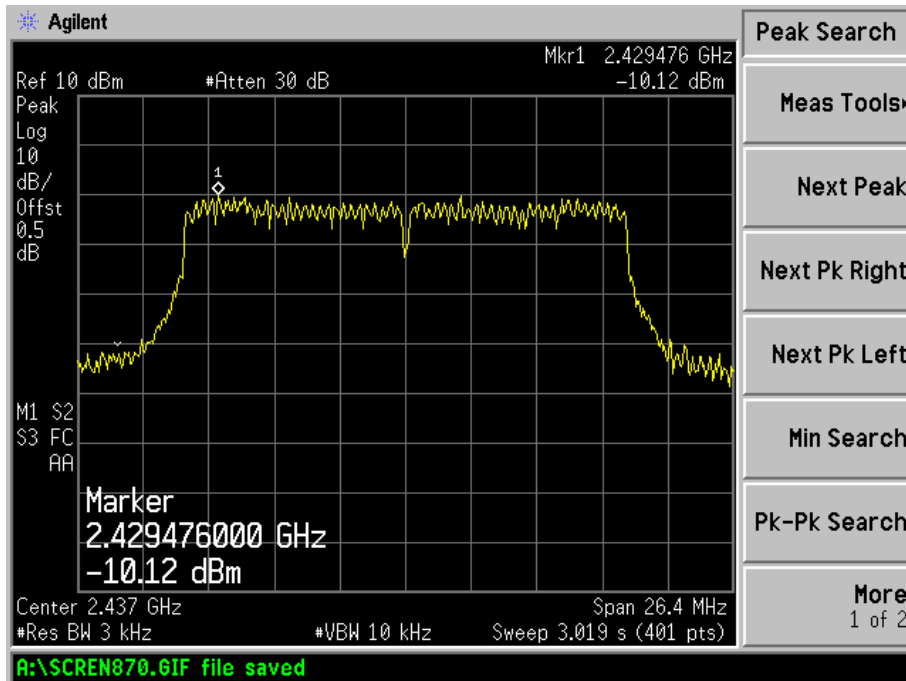
802.11g-High Channel



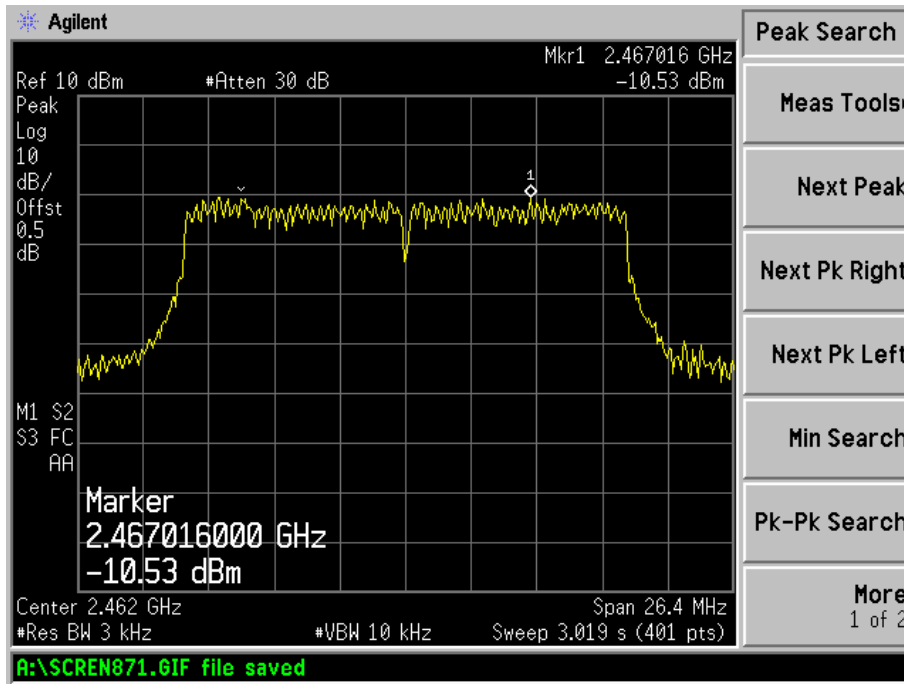
802.11n-HT20-Low Channel



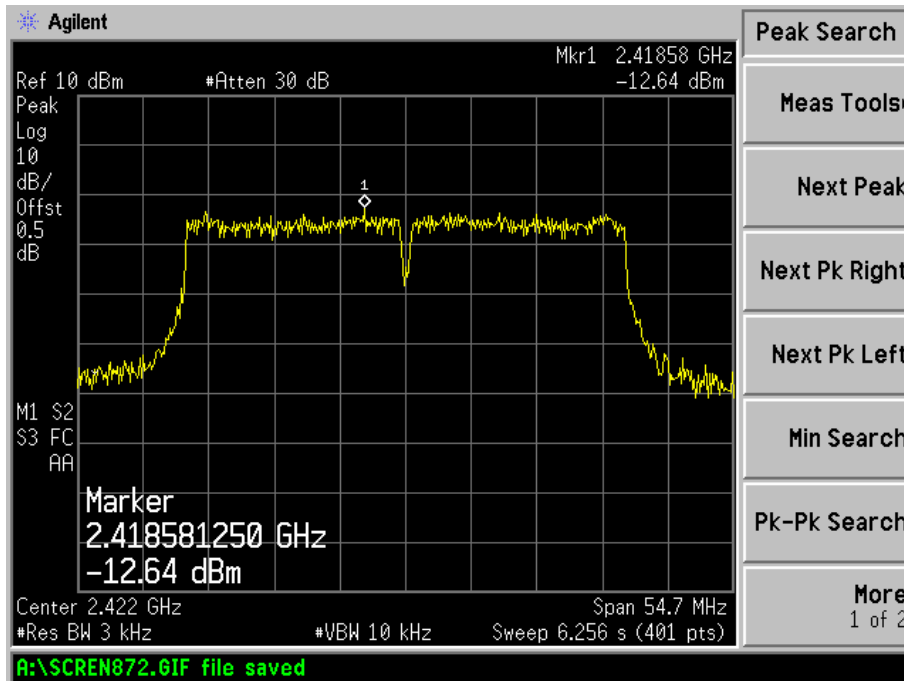
802.11n-HT20-Middle Channel



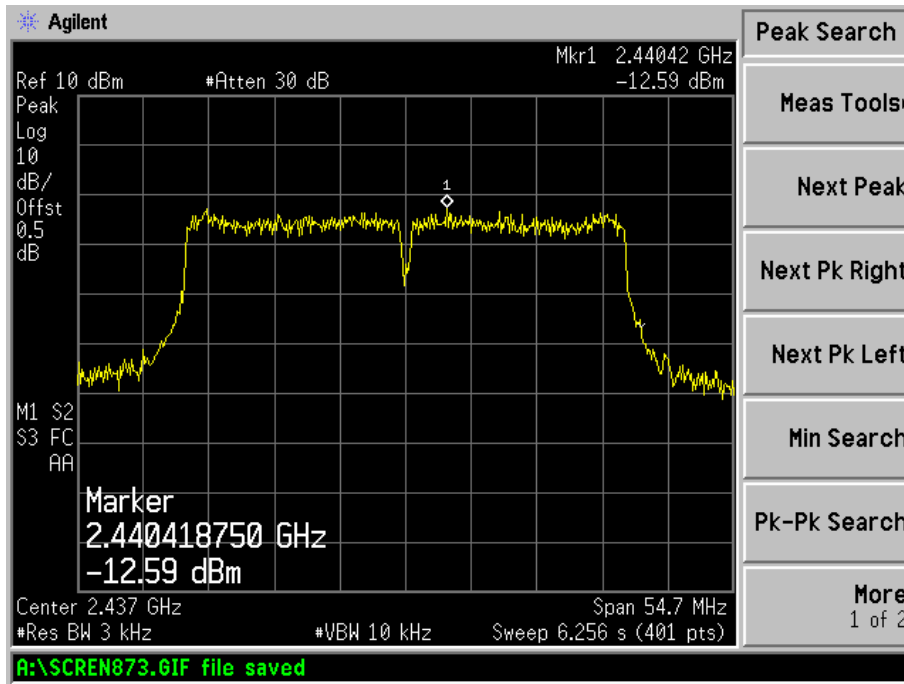
802.11n-HT20-High Channel



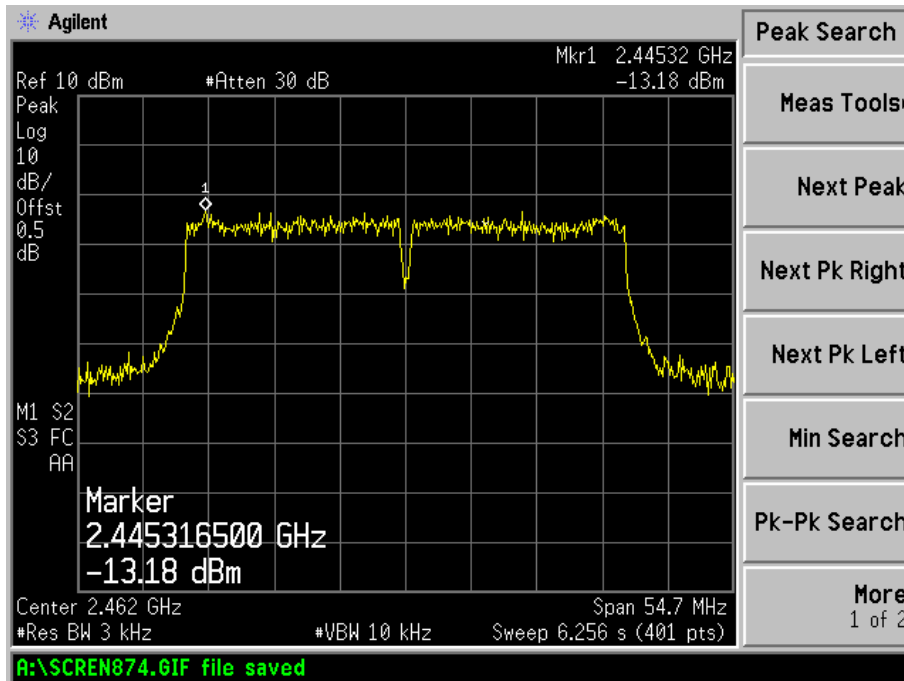
802.11n-HT40-Low Channel



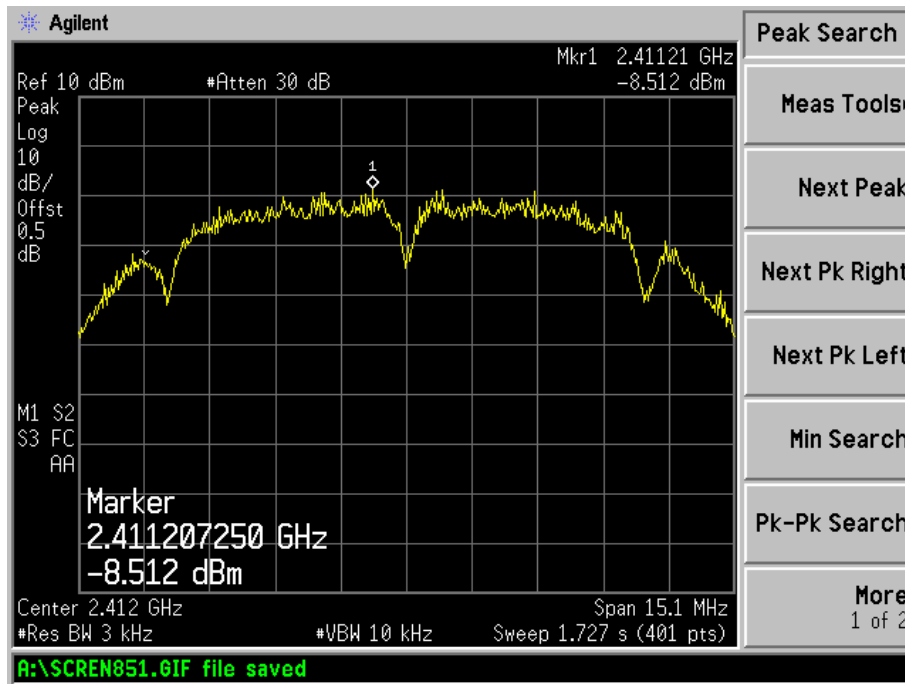
802.11n-HT40-Middle Channel



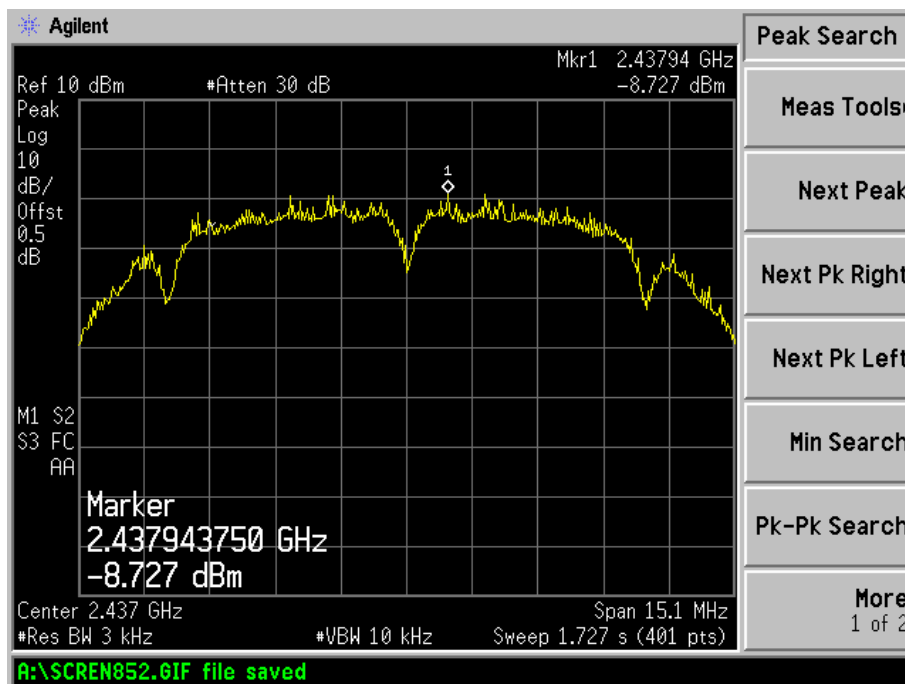
802.11n-HT40-High Channel



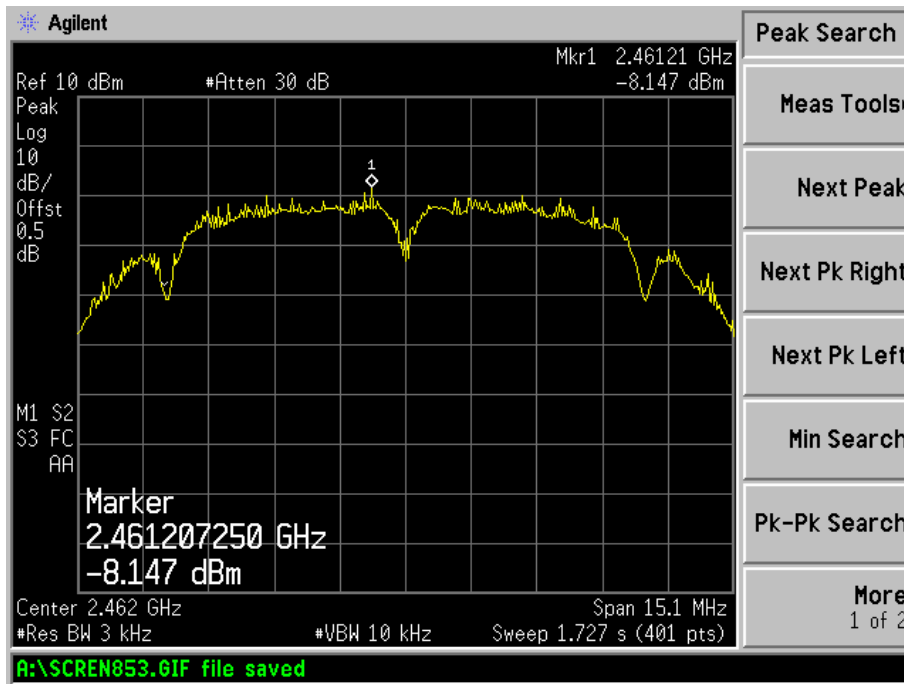
For Antenna 1
802.11b-Low Channel



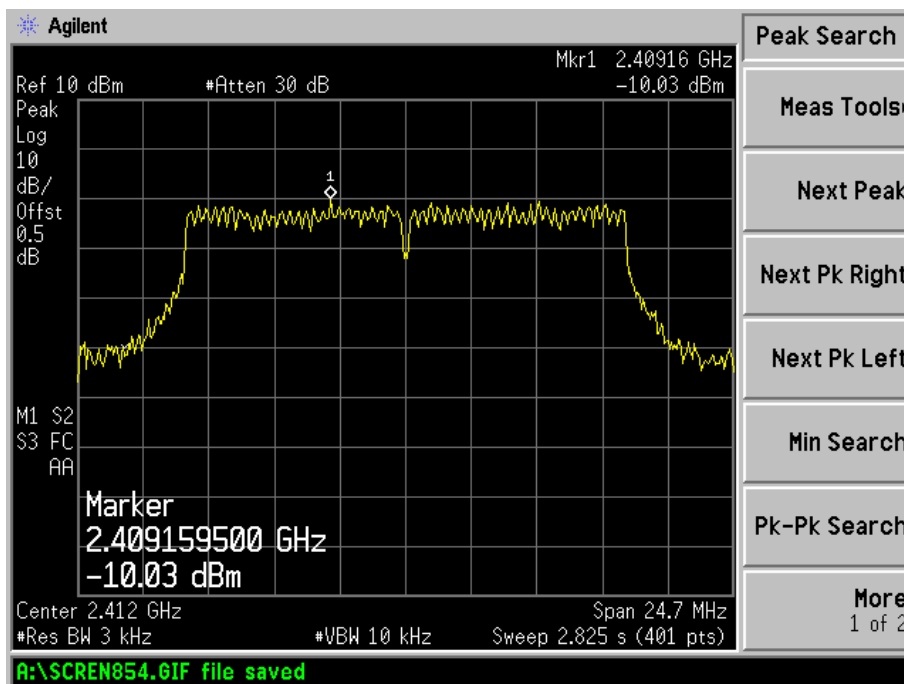
802.11b-Middle Channel



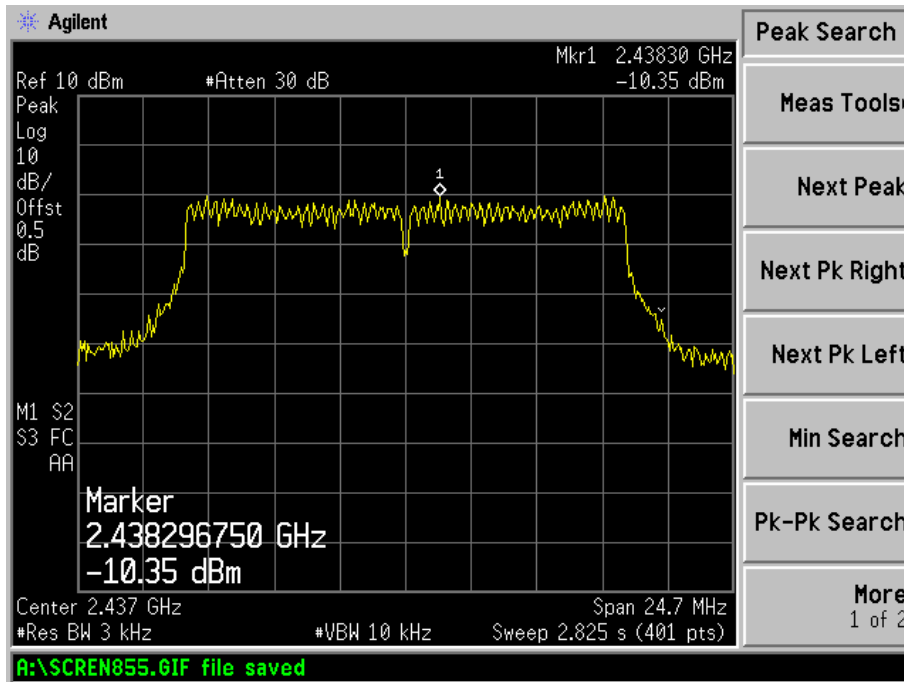
802.11b-High Channel



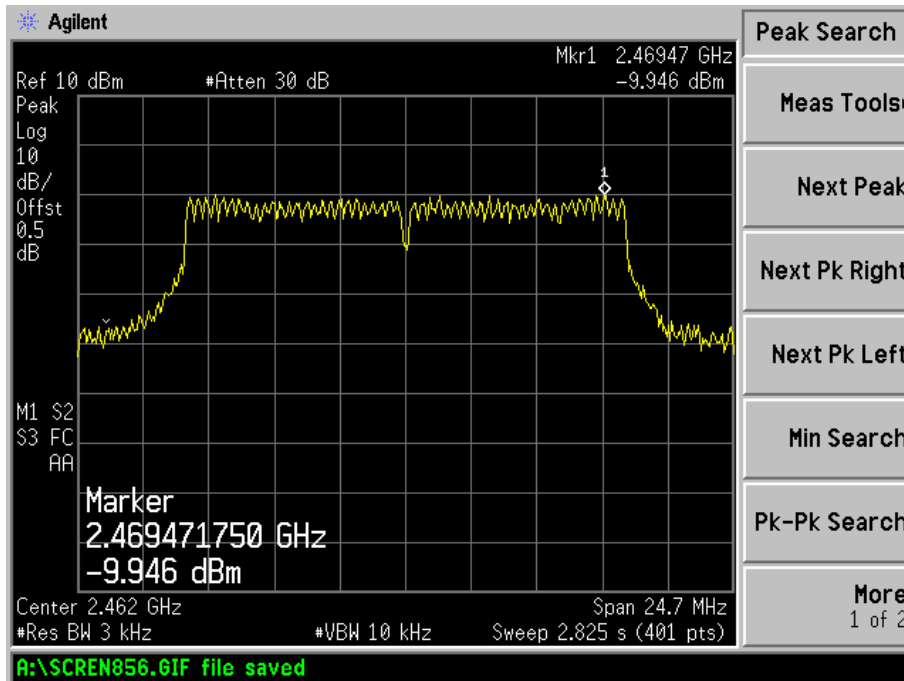
802.11g-Low Channel



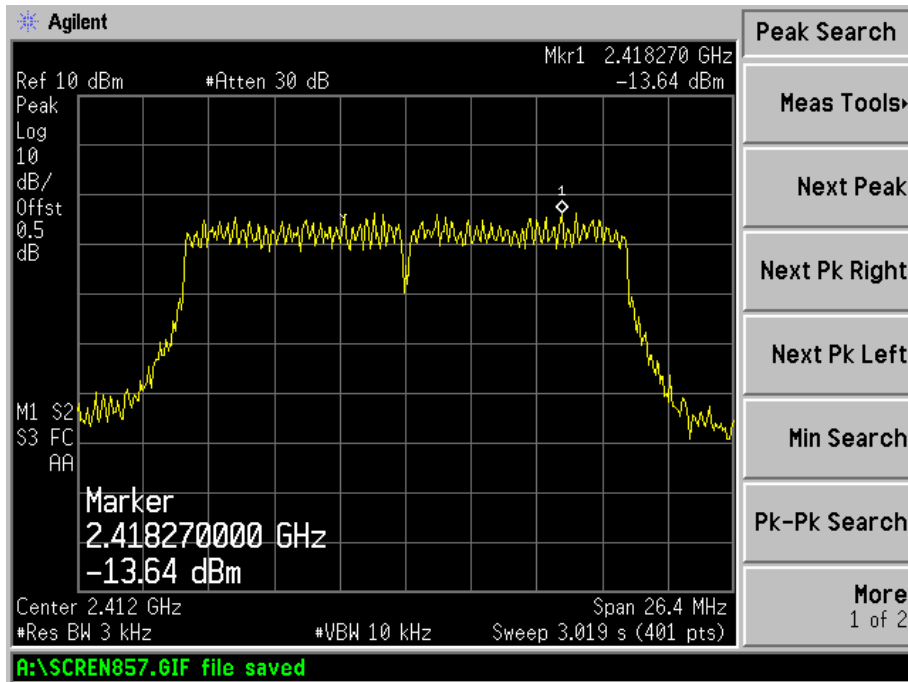
802.11g-Middle Channel



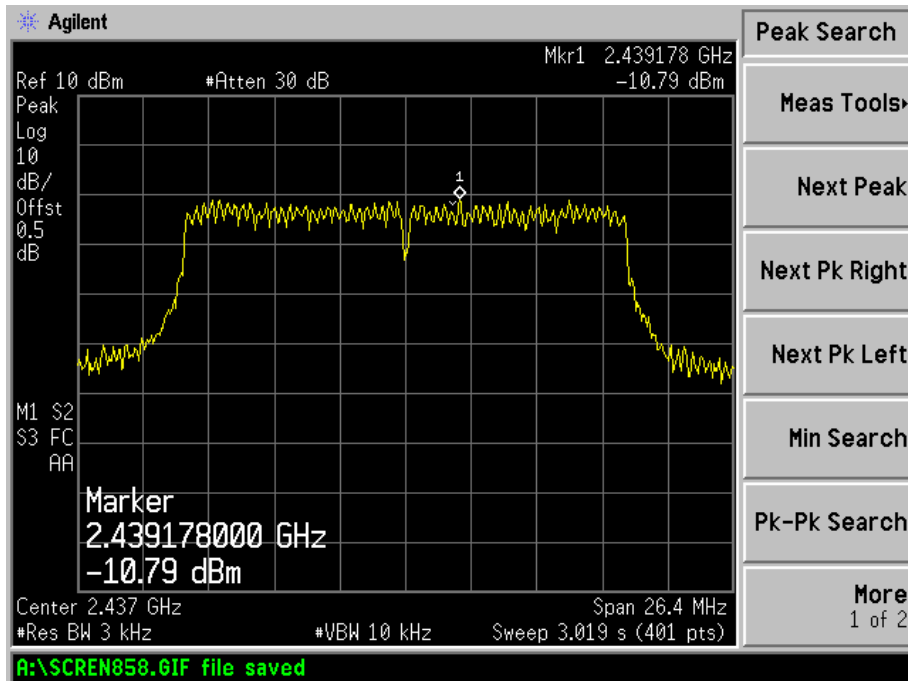
802.11g-High Channel



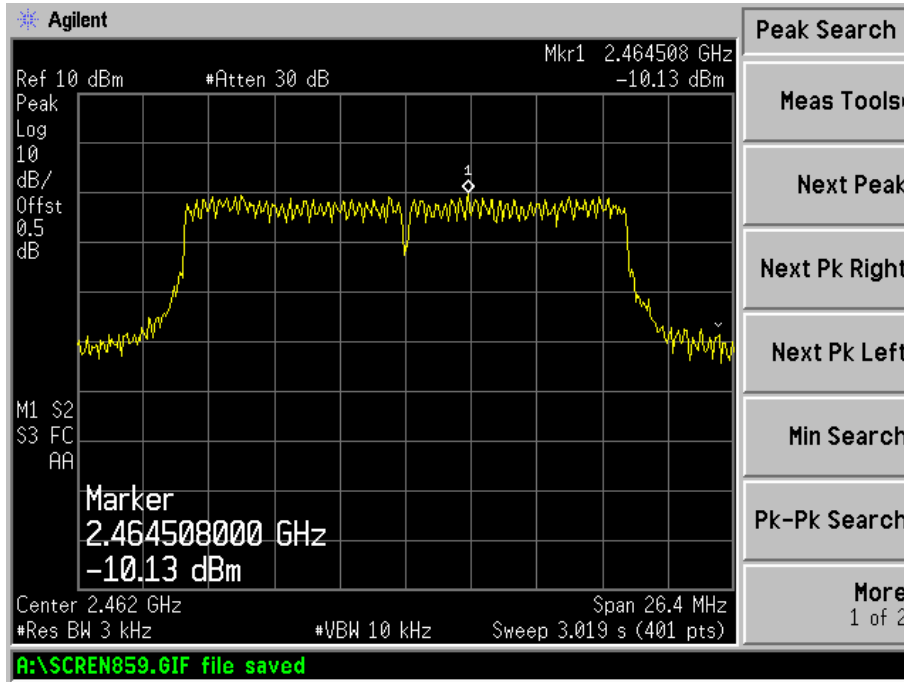
802.11n-HT20-Low Channel



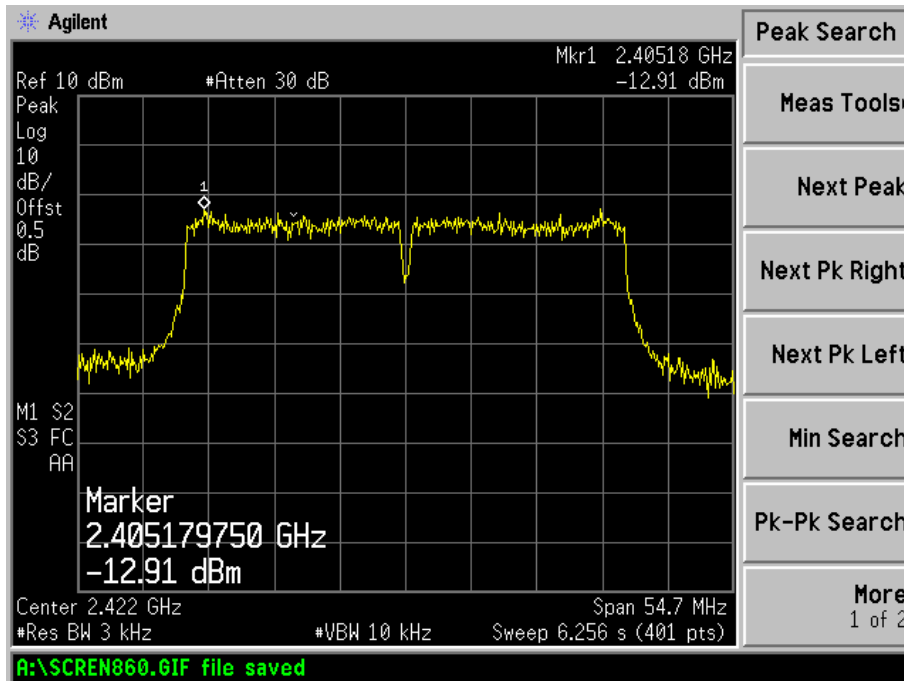
802.11n-HT20-Middle Channel



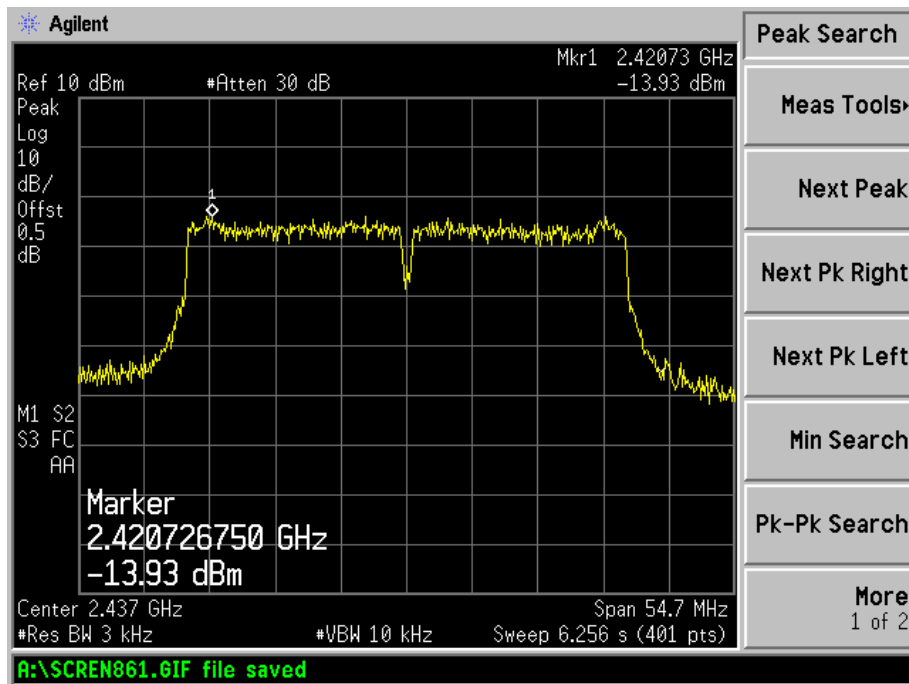
802.11n-HT20-High Channel



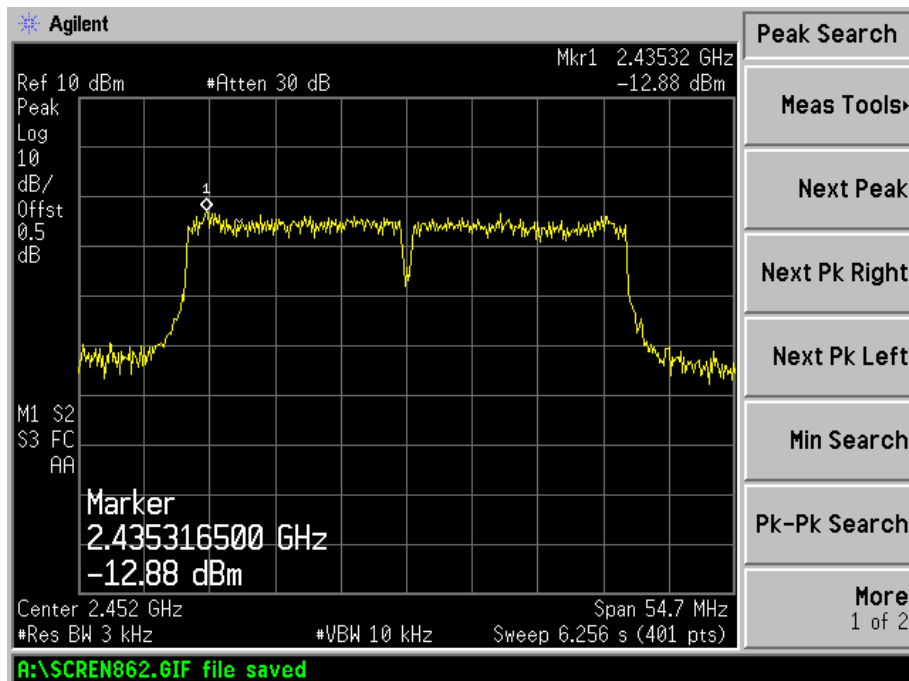
802.11n-HT40-Low Channel



802.11n-HT40-Middle Channel



802.11n-HT40-High Channel



6. 6dB Bandwidth

6.1 Standard Applicable

According to 15.247(a)(2). Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.2 Test Procedure

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 Environmental Conditions

Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.4 Summary of Test Results/Plots

For Antenna 0

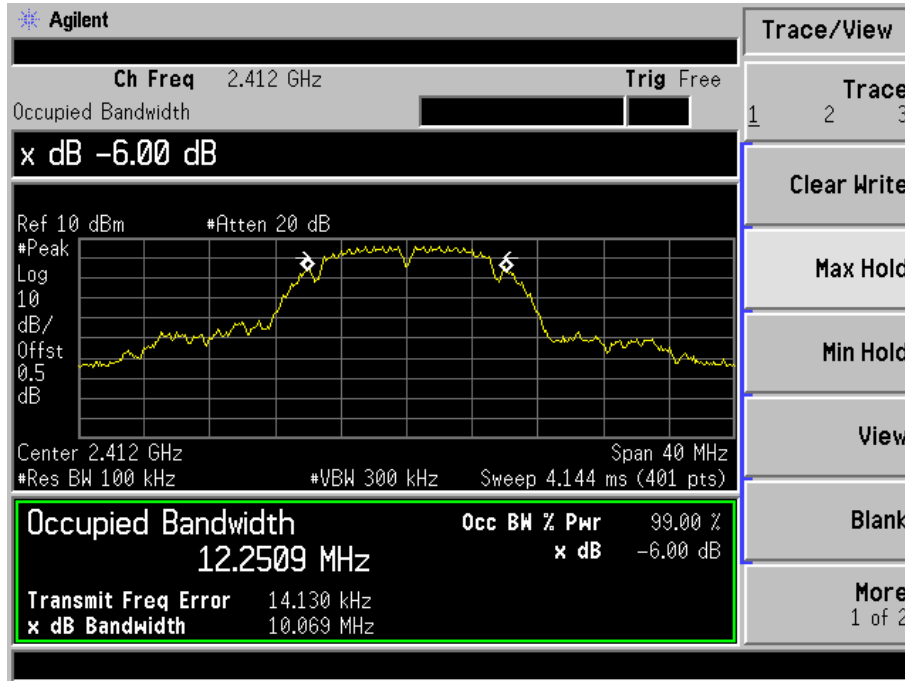
Test Mode	Test Channel MHz	6 dB Bandwidth MHz	99% Bandwidth MHz	Limit kHz
802.11b	2412	10.069	12.251	≥500
	2437	10.058	12.248	≥500
	2462	9.883	12.268	≥500
802.11g	2412	16.453	16.534	≥500
	2437	16.448	16.527	≥500
	2462	15.420	16.541	≥500
802.11n-HT20	2412	17.195	17.549	≥500
	2437	17.632	17.561	≥500
	2462	17.593	17.609	≥500
802.11n-HT40	2422	36.370	36.074	≥500
	2437	36.456	36.135	≥500
	2452	36.328	36.099	≥500

For Antenna 1

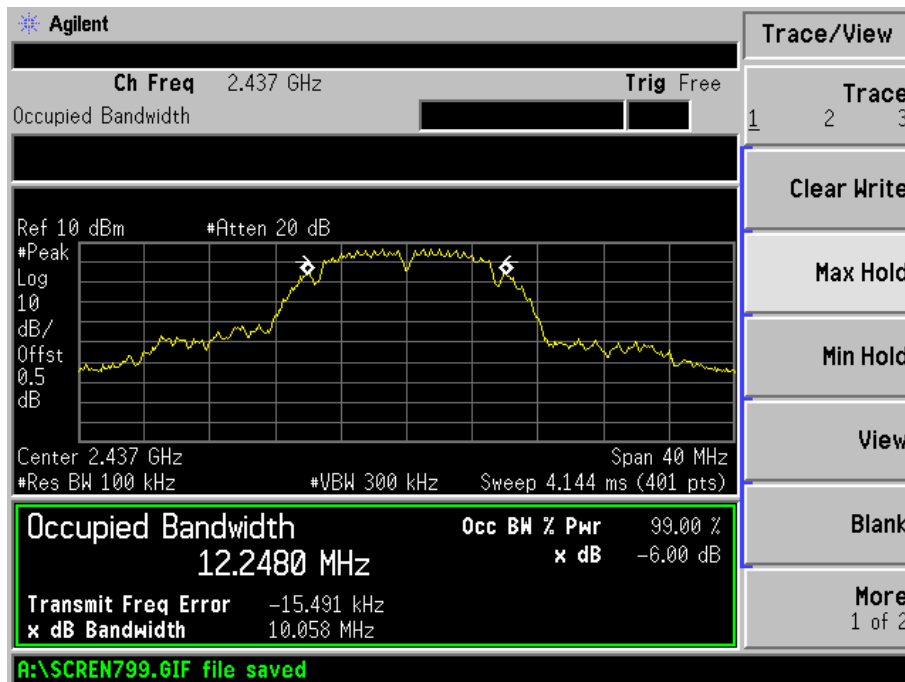
Test Mode	Test Channel MHz	6 dB Bandwidth MHz	99% Bandwidth MHz	Limit kHz
802.11b	2412	10.050	12.271	≥500
	2437	10.031	12.316	≥500
	2462	10.032	12.320	≥500
802.11g	2412	16.413	16.509	≥500
	2437	16.439	16.534	≥500
	2462	16.394	16.548	≥500
802.11n-HT20	2412	17.161	17.567	≥500
	2437	17.556	17.545	≥500
	2462	17.611	17.601	≥500
802.11n-HT40	2422	36.341	36.054	≥500
	2437	36.438	36.178	≥500
	2452	36.324	36.102	≥500

Please refer to the following test plots:

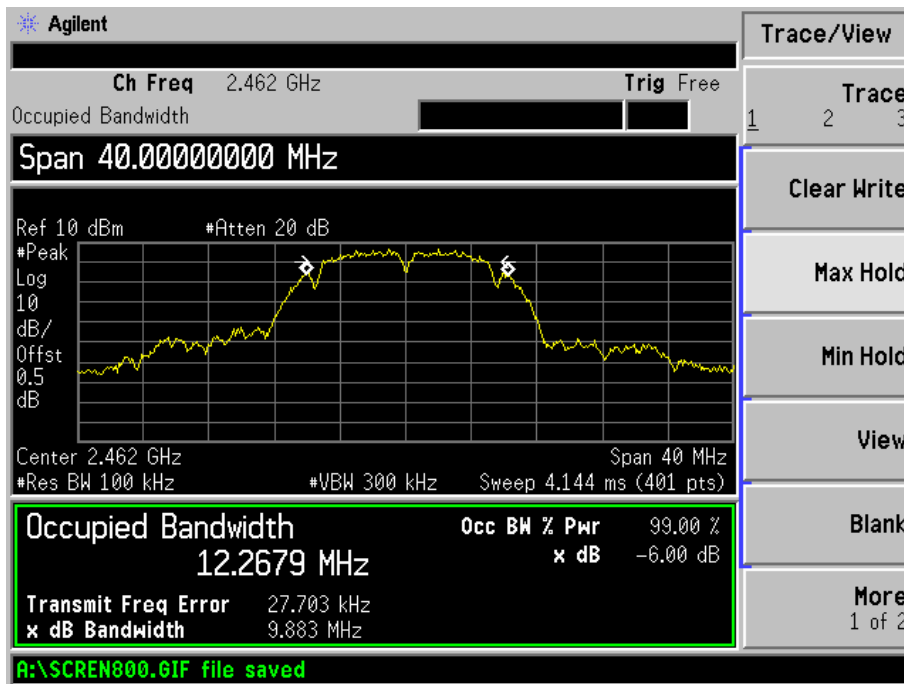
For Antenna 0
802.11b-Low Channel



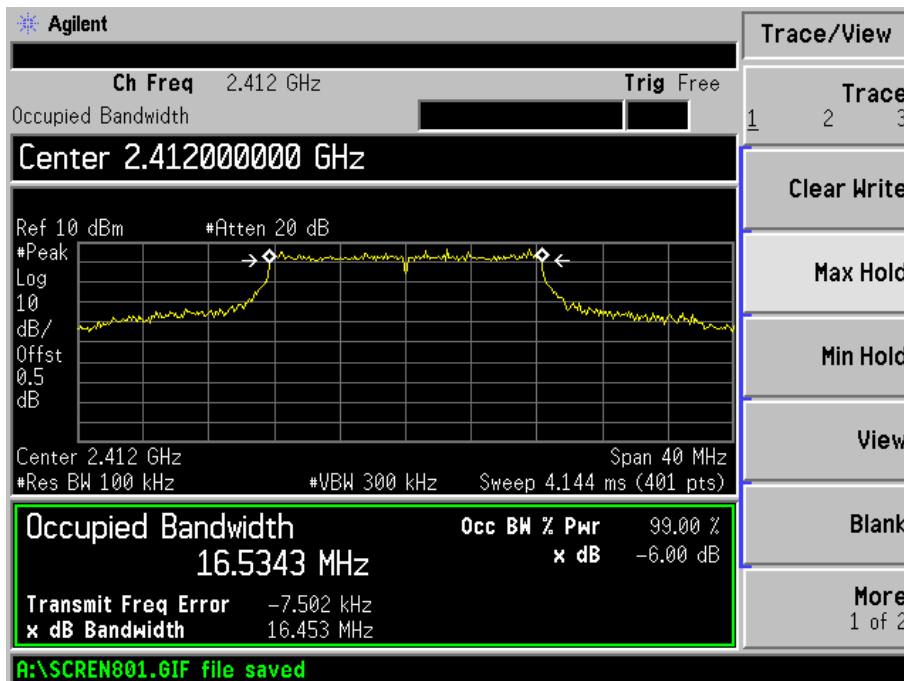
802.11b-Middle Channel



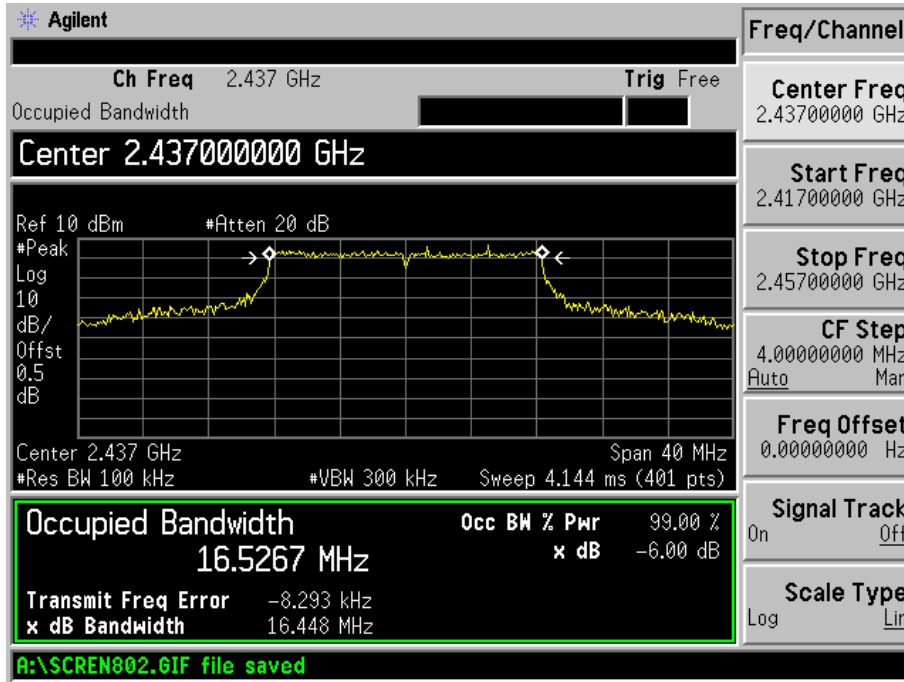
802.11b-High Channel



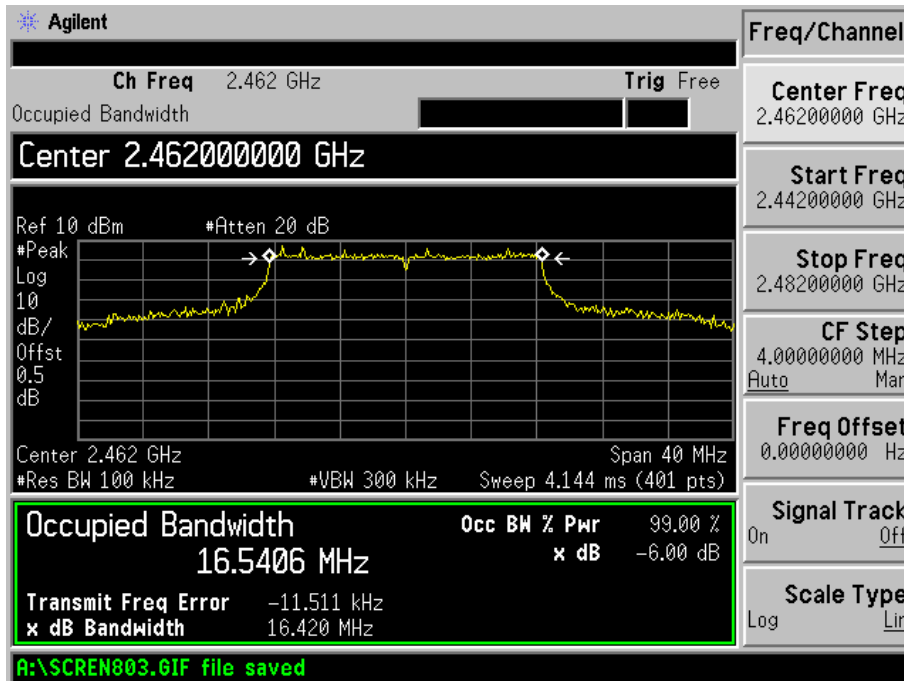
802.11g-Low Channel



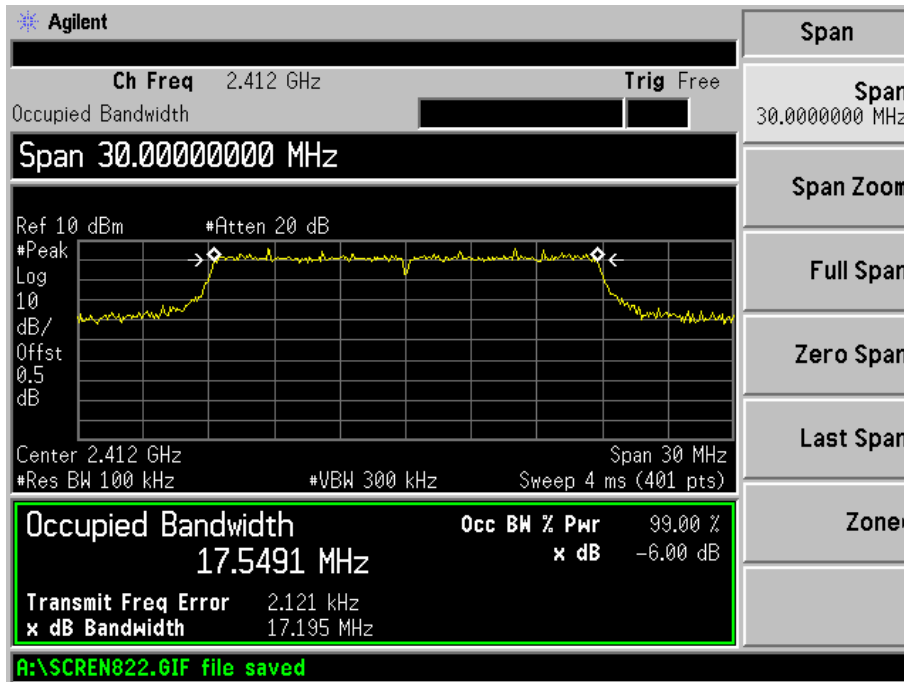
802.11g-Middle Channel



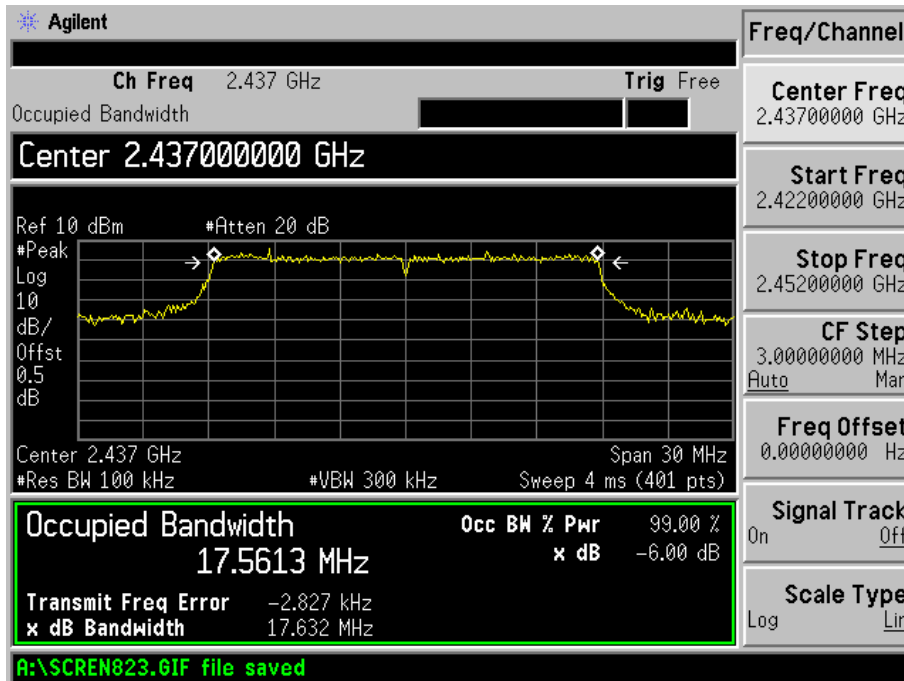
802.11g-High Channel



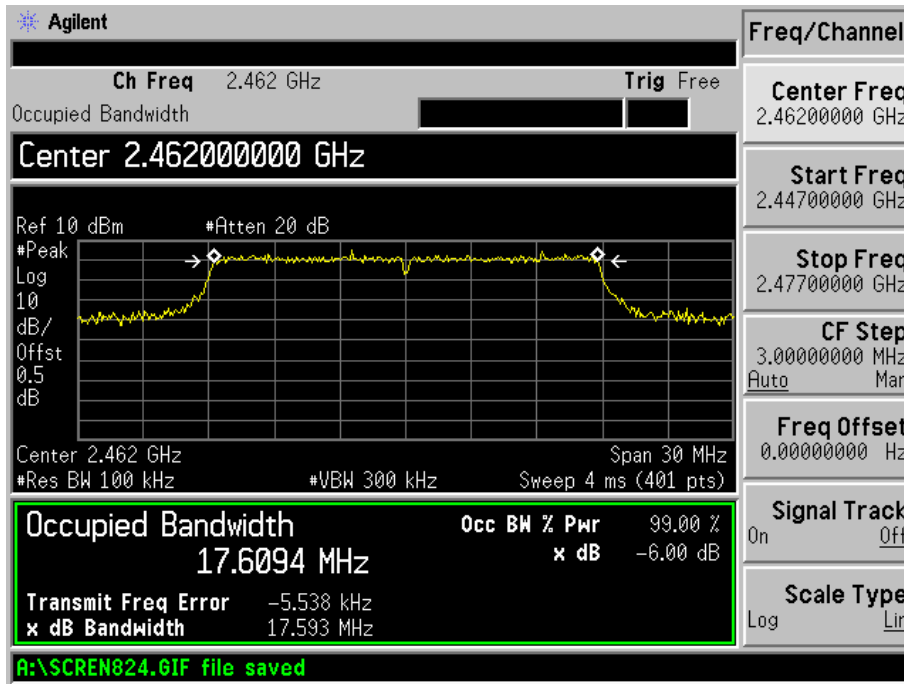
802.11n-HT20-Low Channel



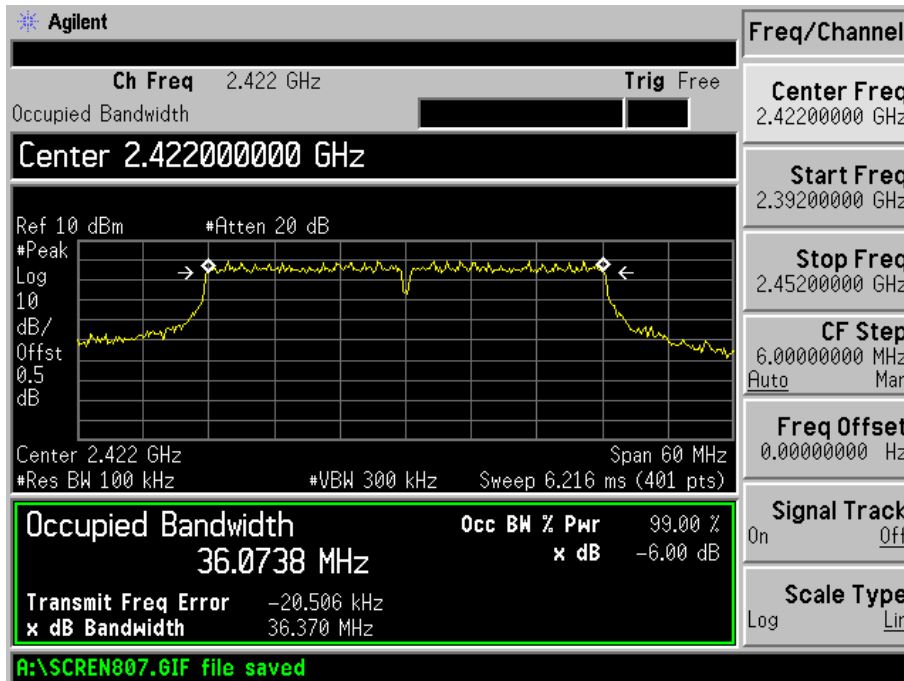
802.11n-HT20-Middle Channel



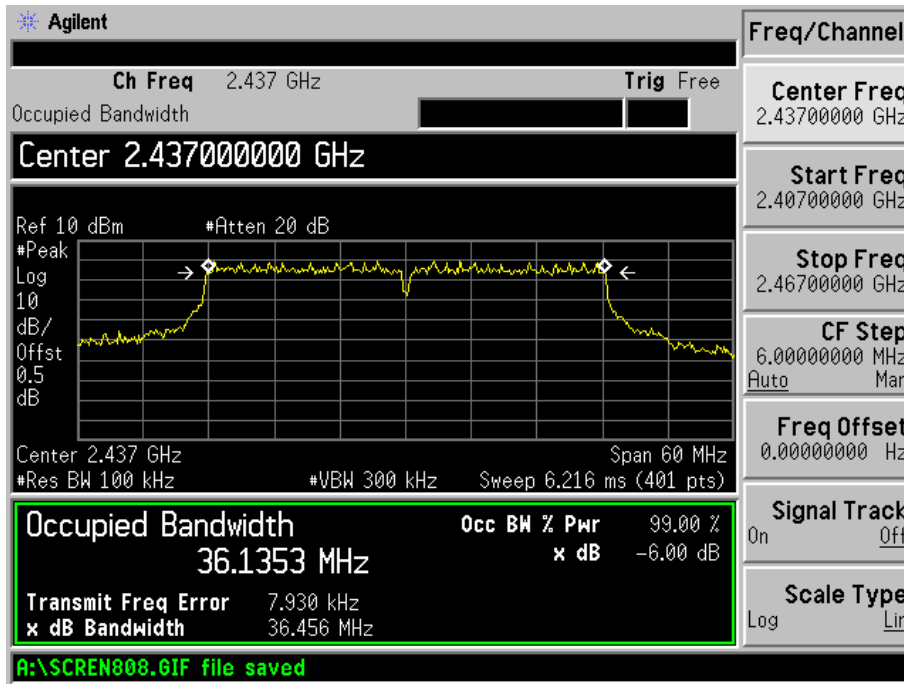
802.11n-HT20-High Channel



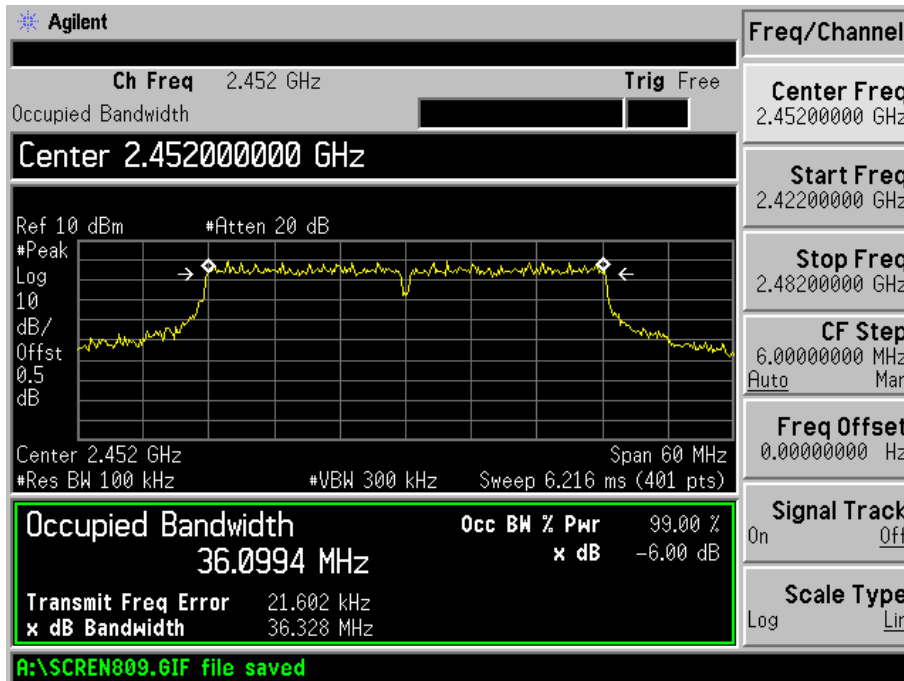
802.11n-HT40-Low Channel



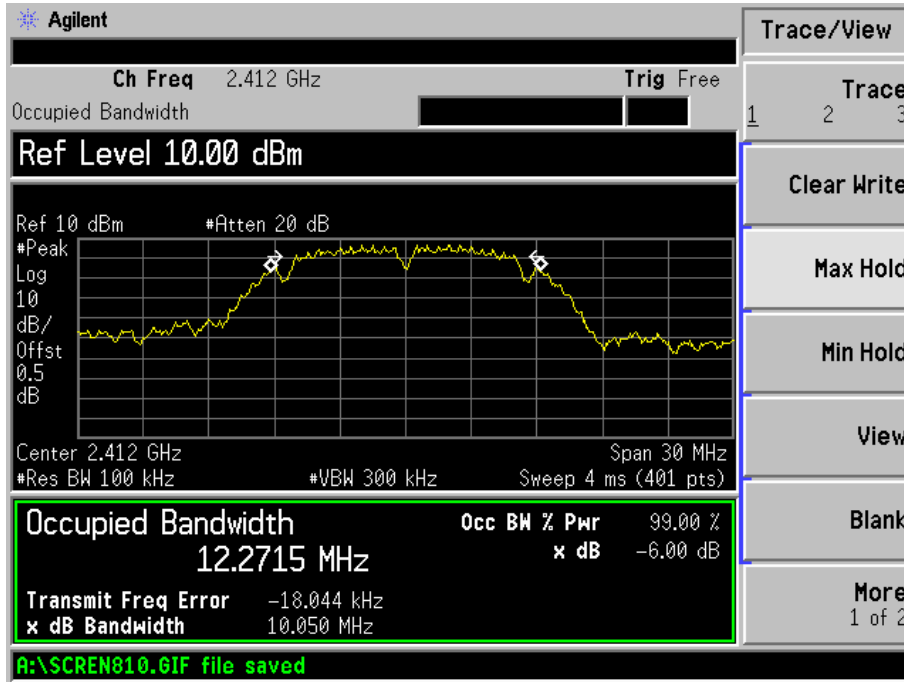
802.11n-HT40-Middle Channel



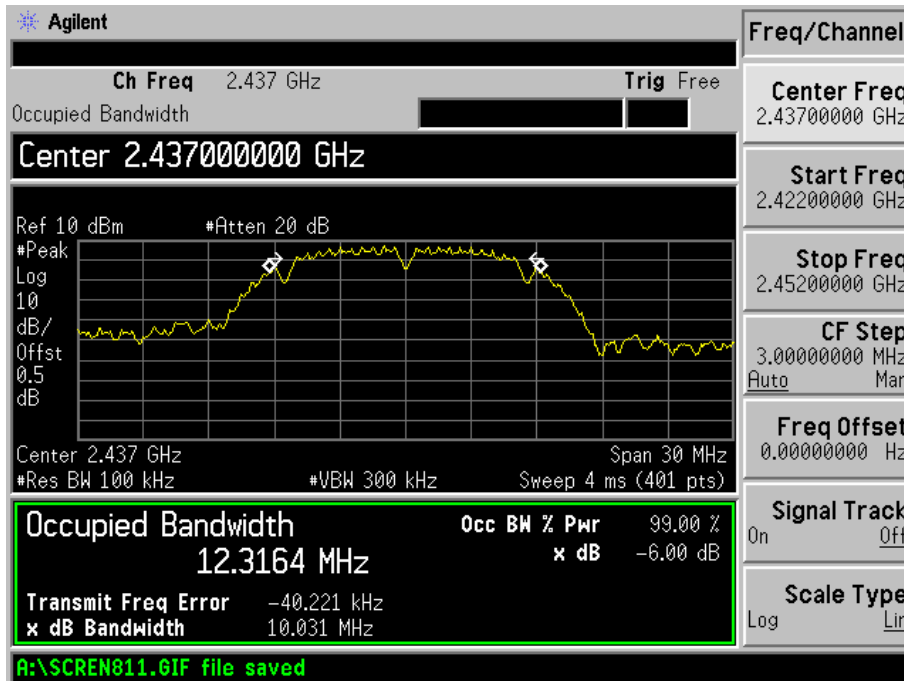
802.11n-HT40-High Channel



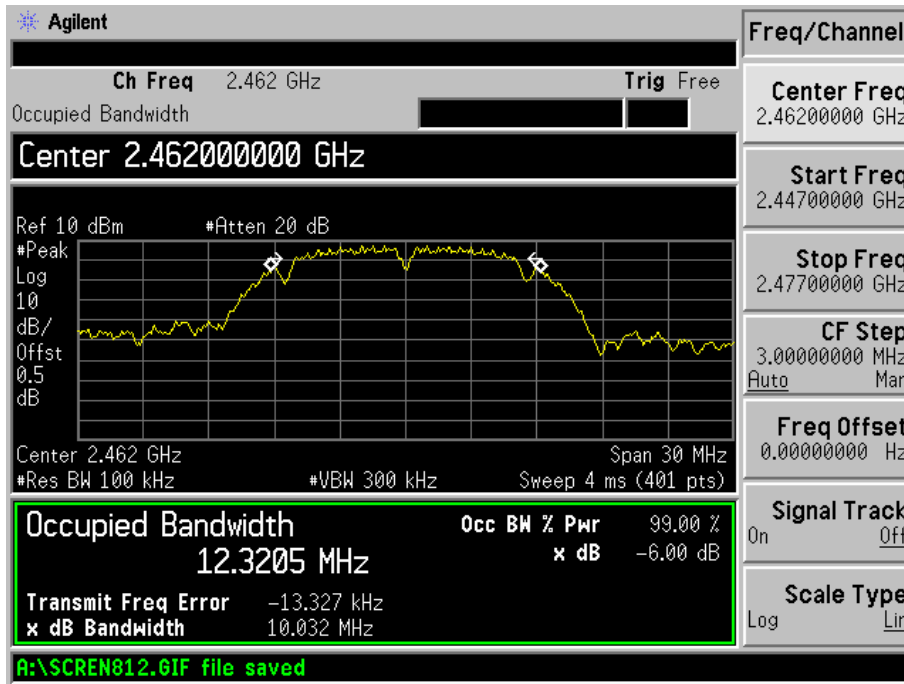
For Antenna 1
802.11b-Low Channel



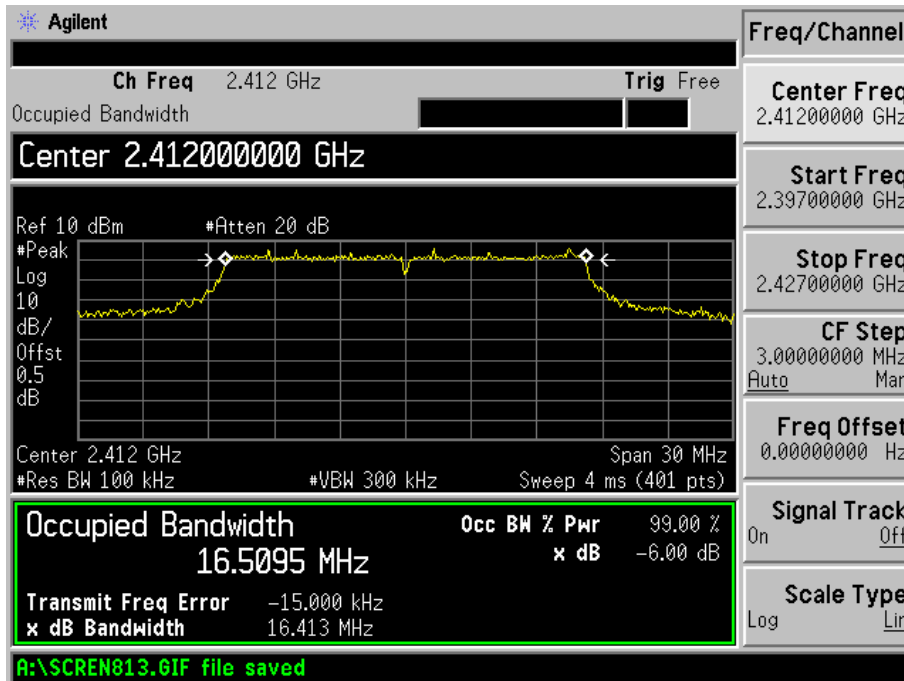
802.11b-Middle Channel



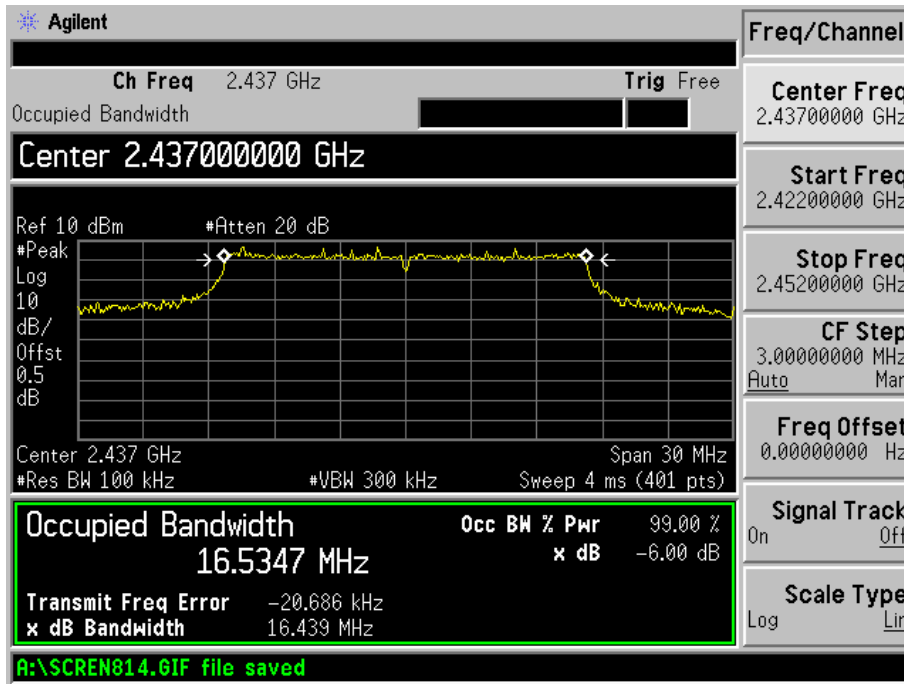
802.11b-High Channel



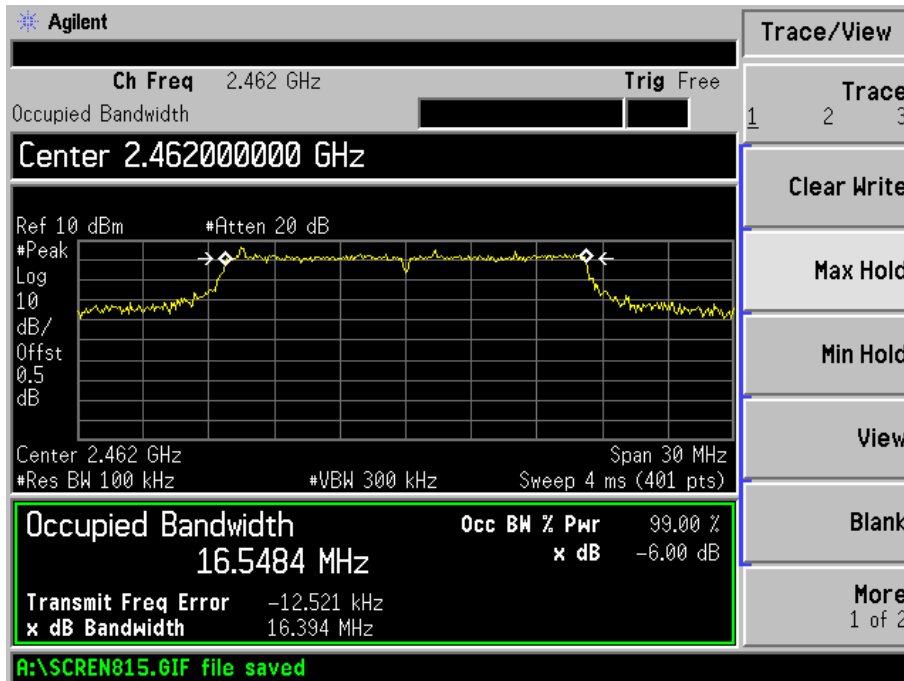
802.11g-Low Channel



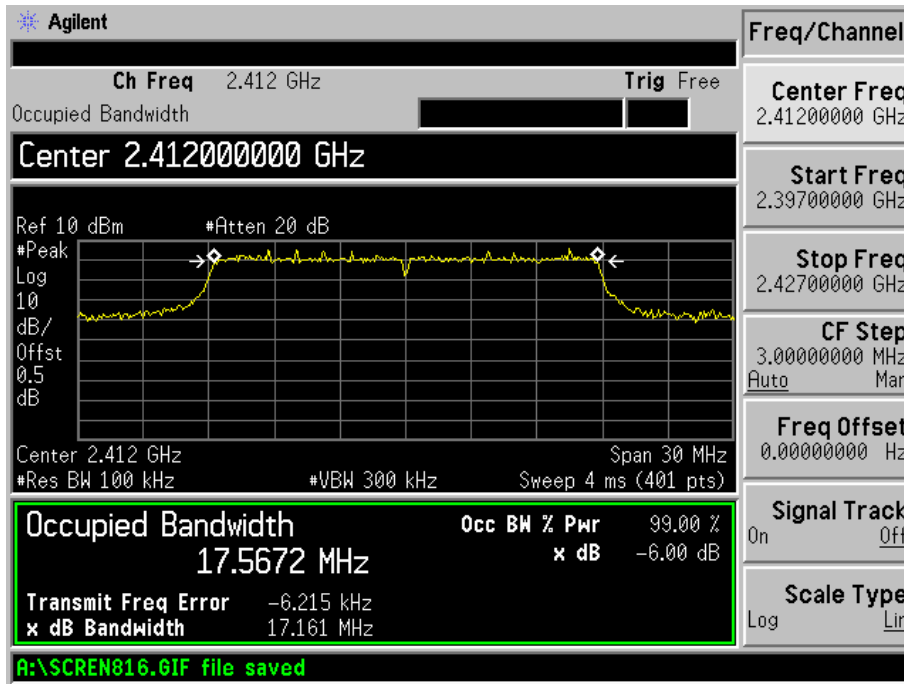
802.11g-Middle Channel



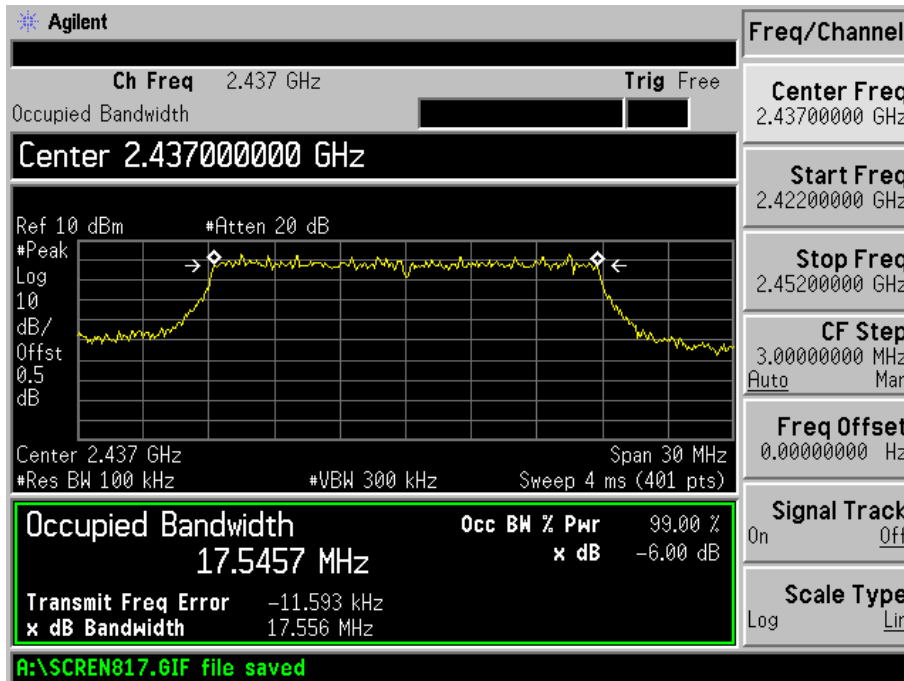
802.11g-High Channel



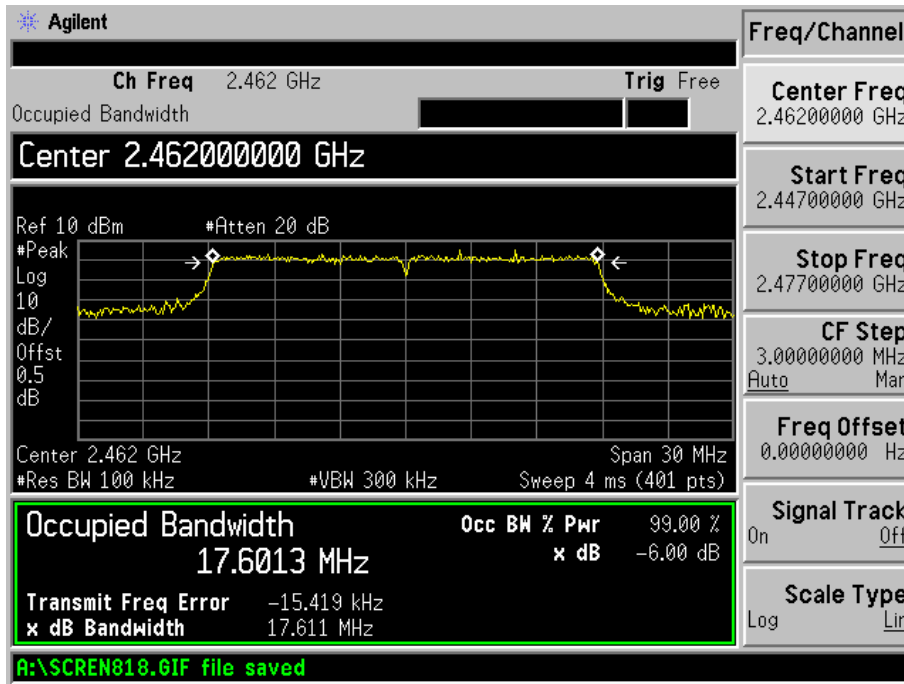
802.11n-HT20-Low Channel



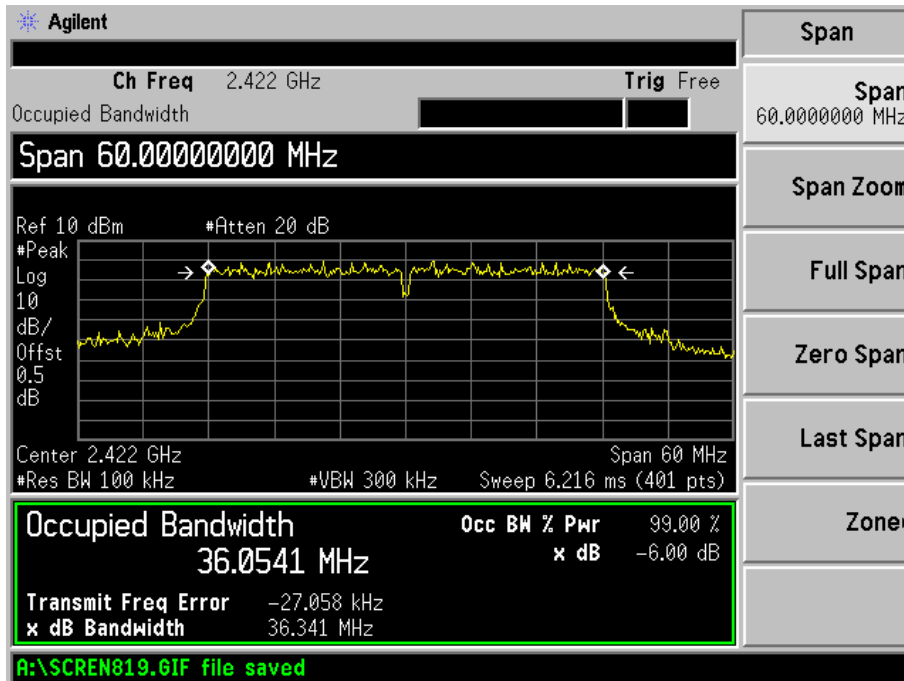
802.11n-HT20-Middle Channel



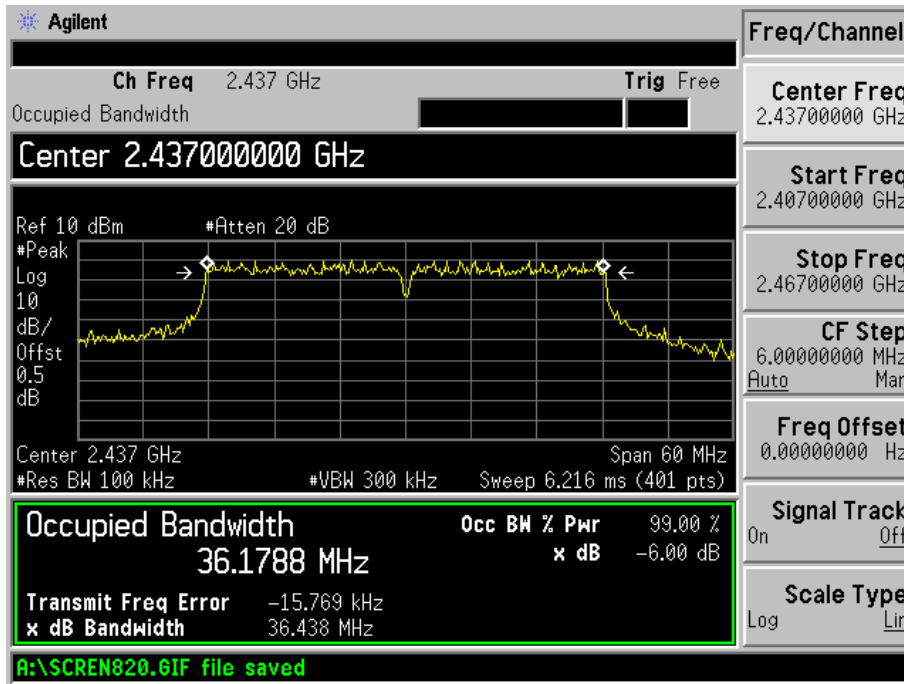
802.11n-HT20-High Channel



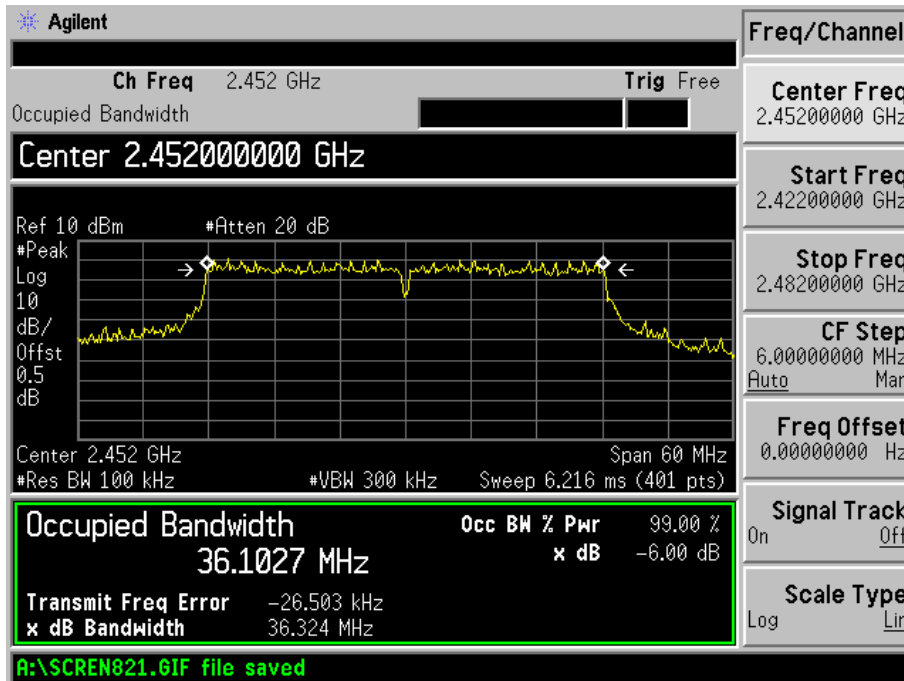
802.11n-HT40-Low Channel



802.11n-HT40-Middle Channel



802.11n-HT40-High Channel



7. RF Output Power

7.1 Standard Applicable

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

7.2 Test Procedure

According to the KDB-558074 D01 v03r05, 9.2.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Number of points in sweep $\geq 2 \times$ span / RBW. (This gives bin-to-bin spacing \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run” .
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

7.3 Environmental Conditions

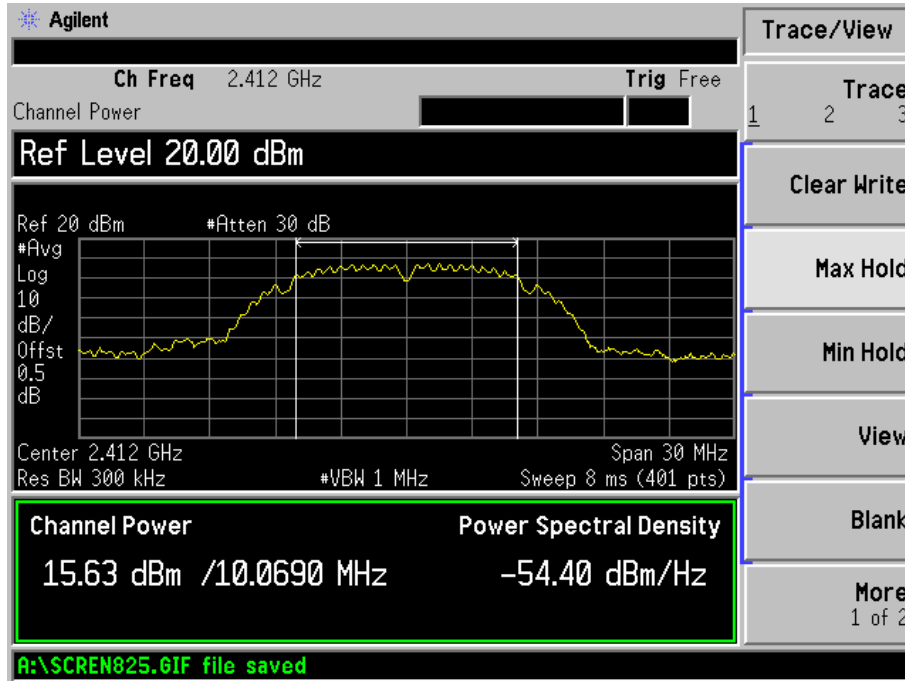
Temperature:	26° C
Relative Humidity:	57%
ATM Pressure:	1011 mbar

7.4 Summary of Test Results/Plots

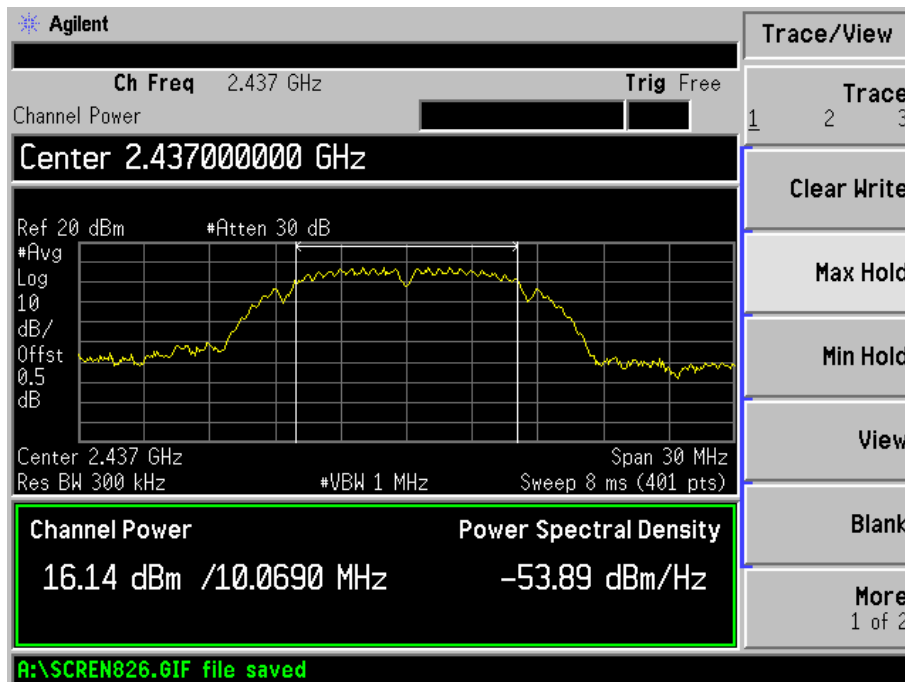
Test Mode	Frequency MHz	Max Conducted Peak Output Power dBm		Combine Peak Output Power dBm	Limit dBm
		Ant. 0	Ant. 1		
802.11b_11Mbps	2412	15.63	15.81	/	30
	2437	16.14	14.89	/	30
	2462	15.98	16.64	/	30
802.11g_54Mbps	2412	14.96	16.08	/	30
	2437	15.06	16.22	/	30
	2462	15.06	16.44	/	30
802.11n HT20_MCS7	2412	14.43	16.00	18.30	30
	2437	14.54	15.79	18.22	30
	2462	14.08	16.36	18.38	30
802.11n HT40_MCS7	2422	15.55	14.43	18.04	30
	2437	14.80	14.41	17.62	30
	2452	14.72	14.77	17.76	30

Please refer to the following test plots:

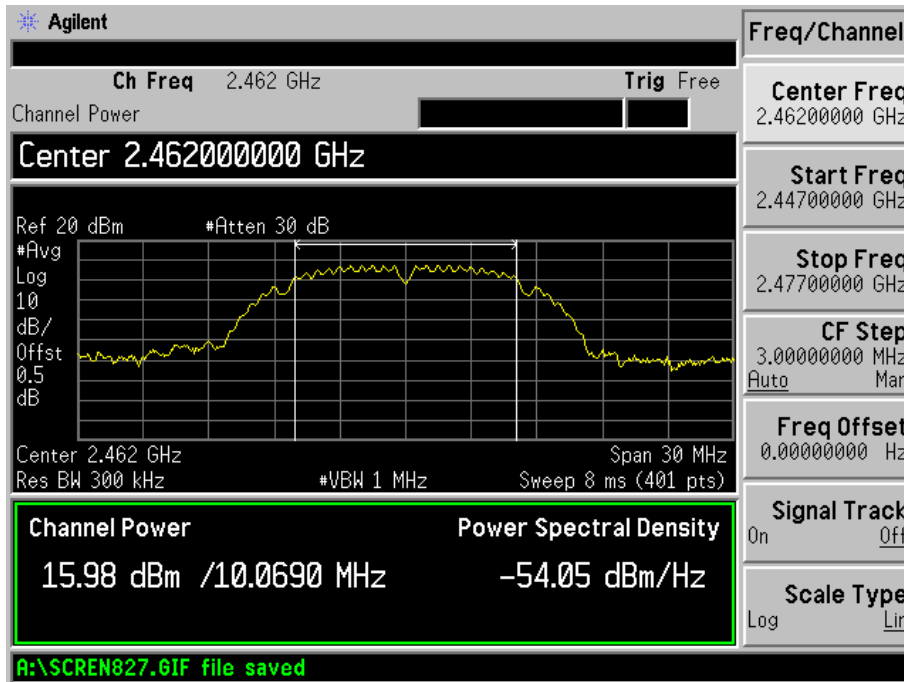
For Antenna 0
802.11b-11Mbps-Low Channel



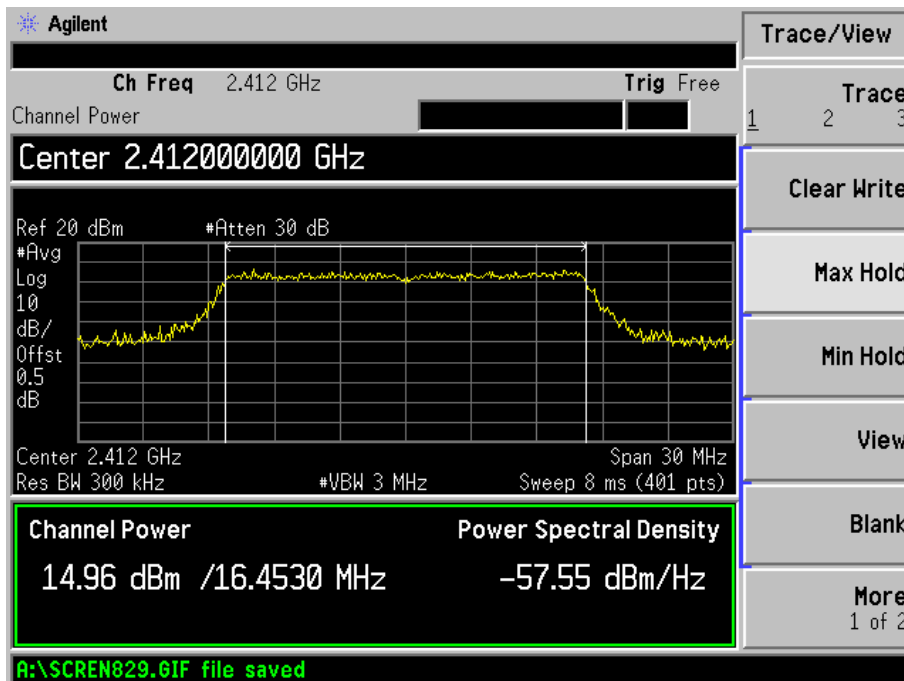
802.11b-11Mbps -Middle Channel



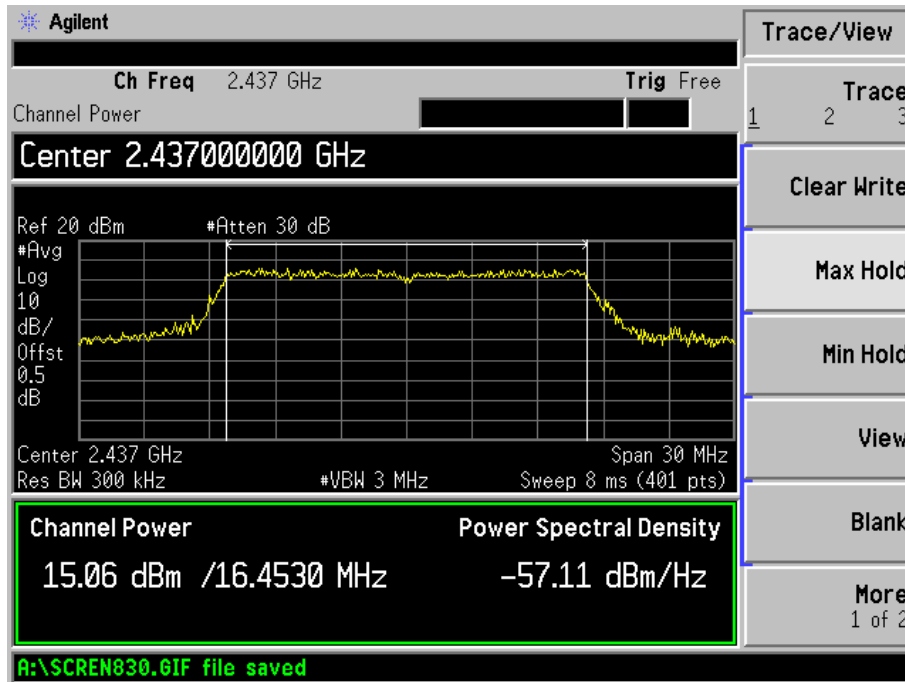
802.11b-11Mbps -High Channel



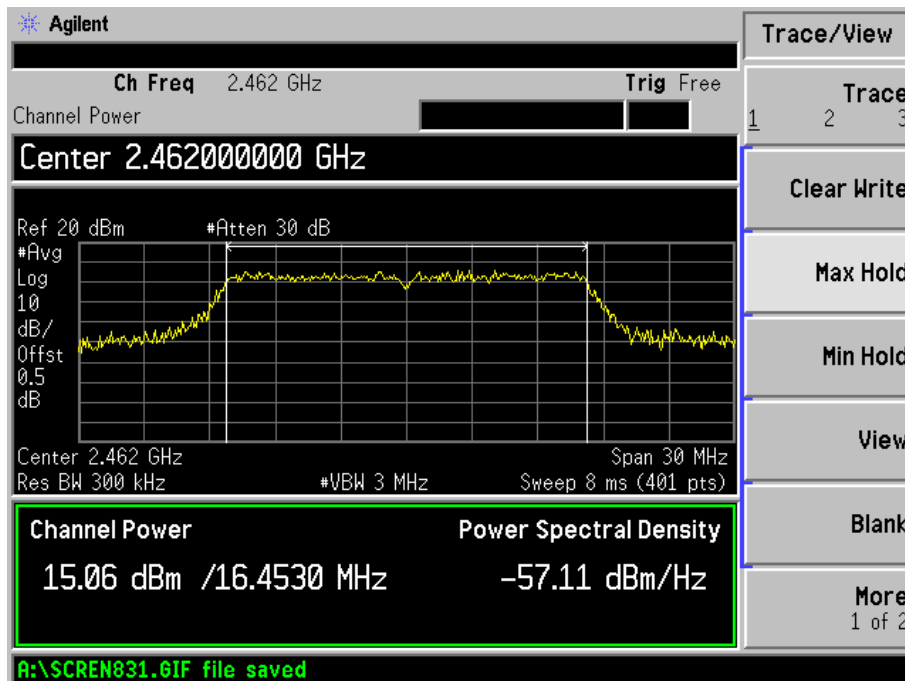
802.11g-54Mbps -Low Channel



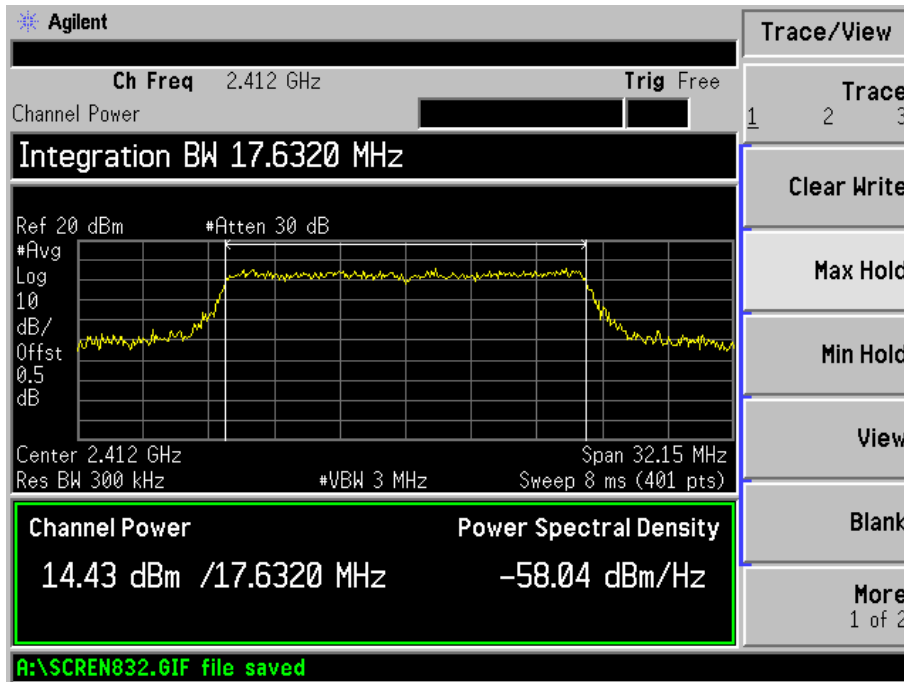
802.11g-54Mbps -Middle Channel



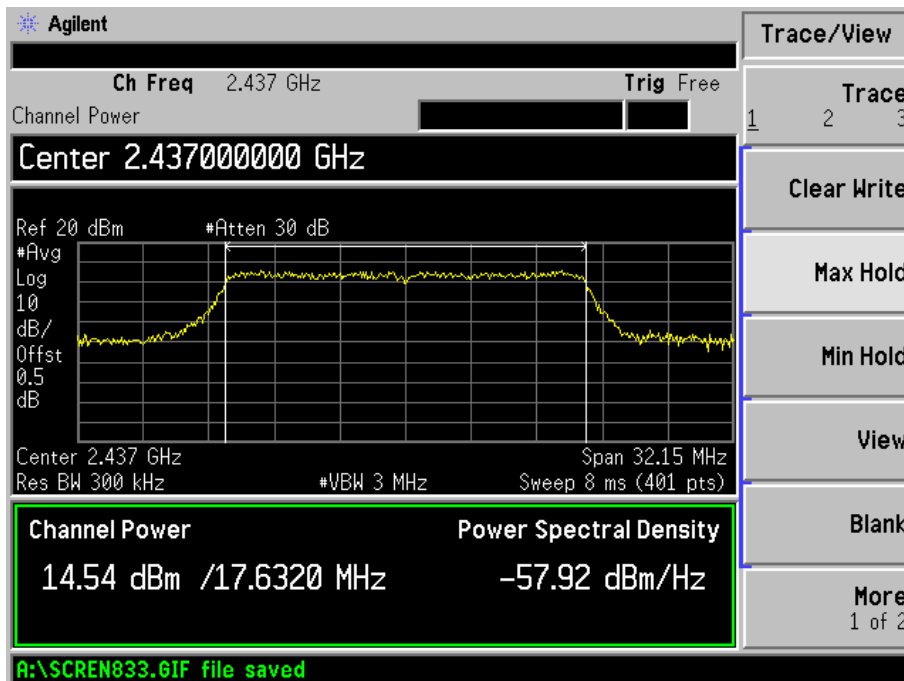
802.11g-54Mbps -High Channel



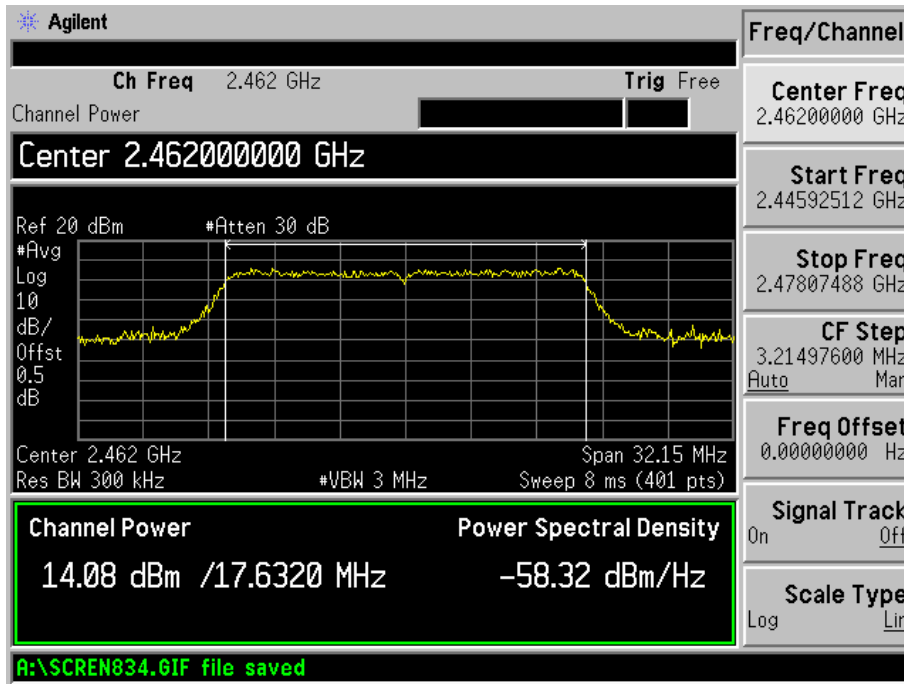
802.11n-HT20-MCS7-Low Channel



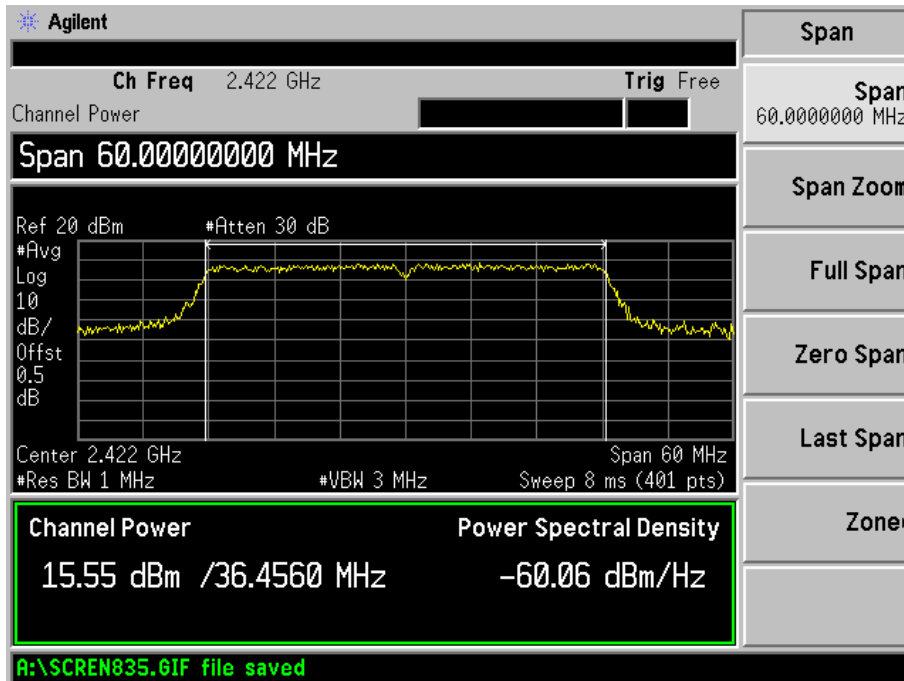
802.11n-HT20-MCS7-Middle Channel



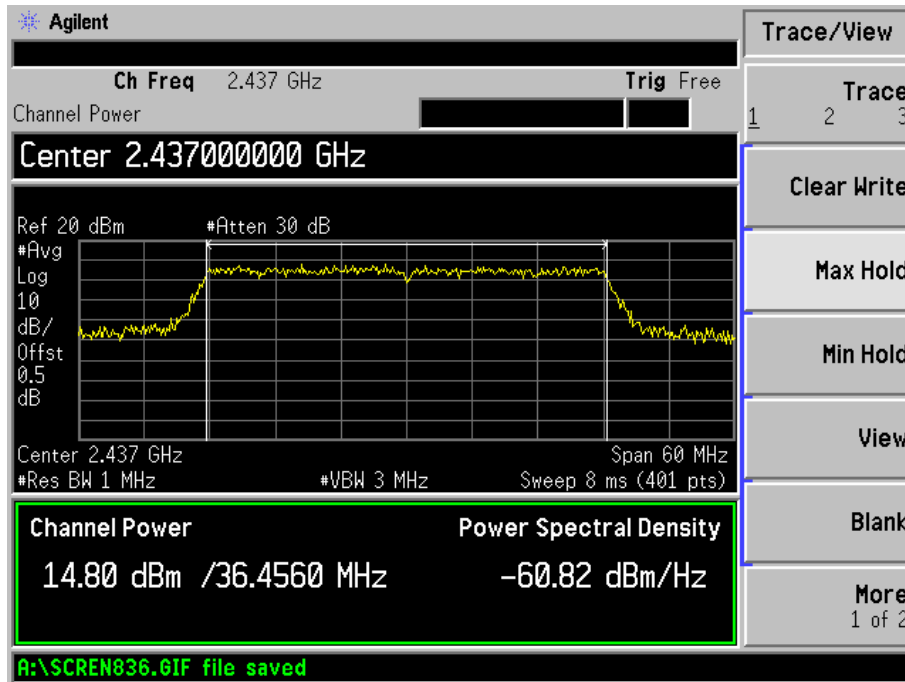
802.11n-HT20-MCS7-High Channel



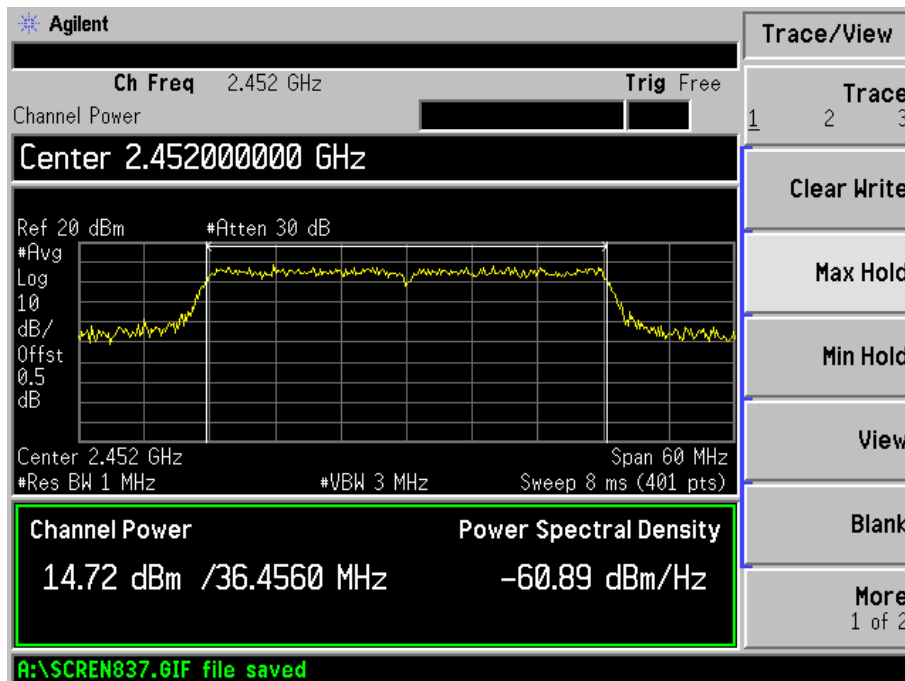
802.11n-HT40-MCS7-Low Channel



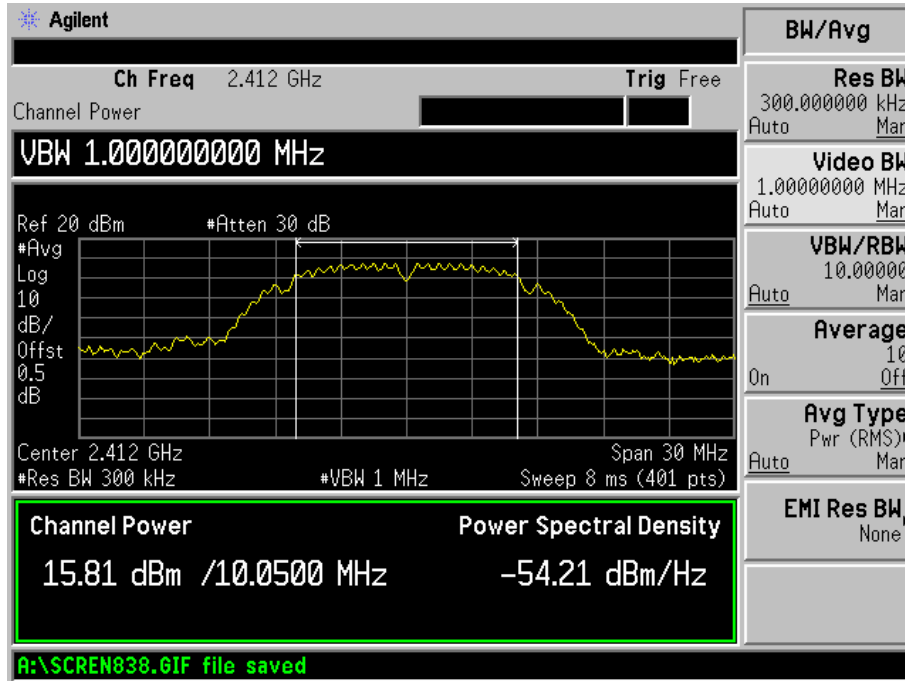
802.11n-HT40-MCS7-Middle Channel



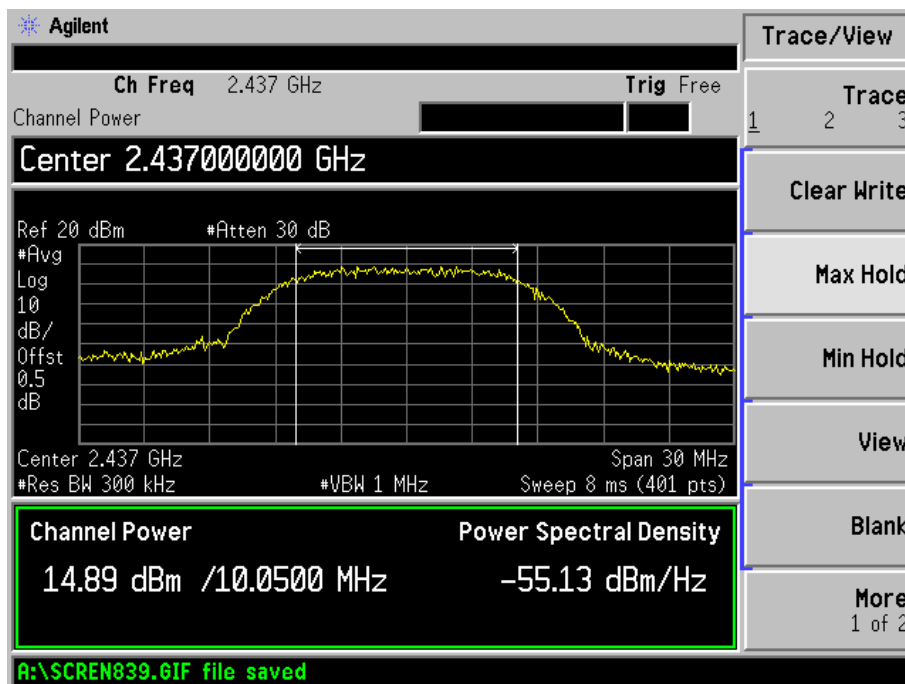
802.11n-HT40-MCS7-High Channel



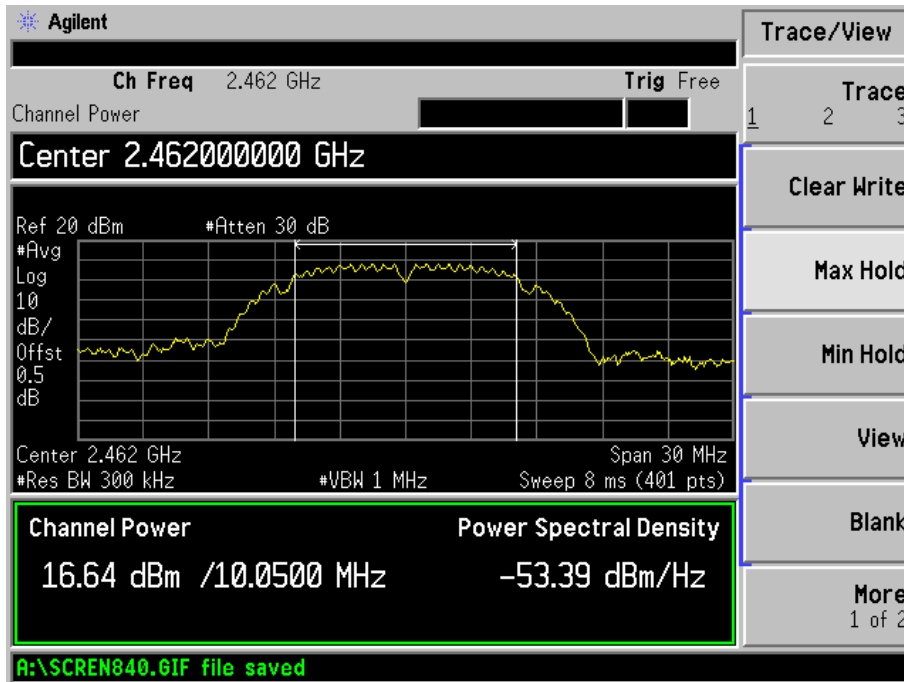
For Antenna 1
802.11b-11Mbps-Low Channel



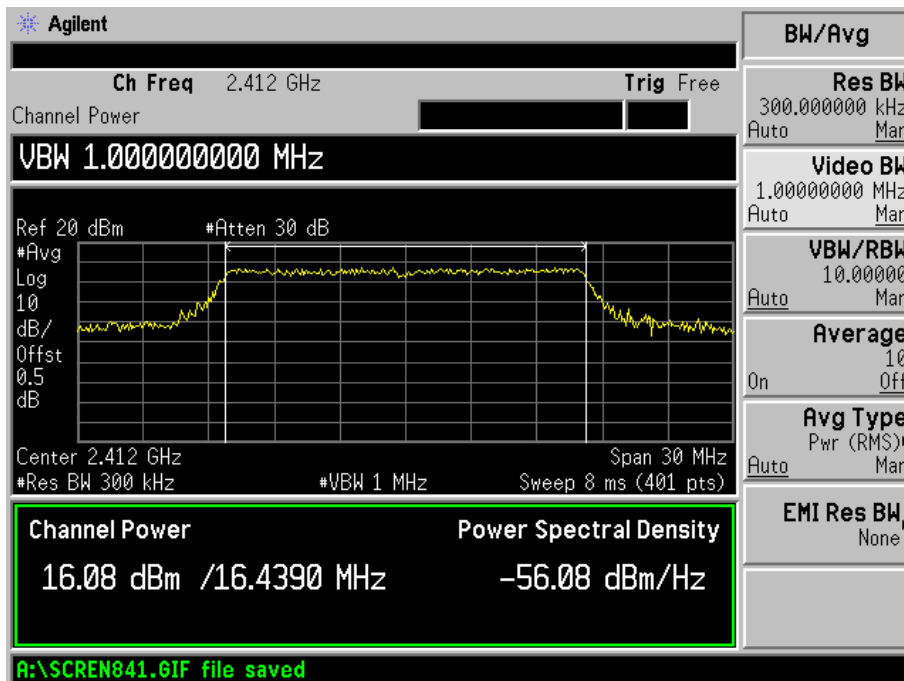
802.11b-11Mbps -Middle Channel



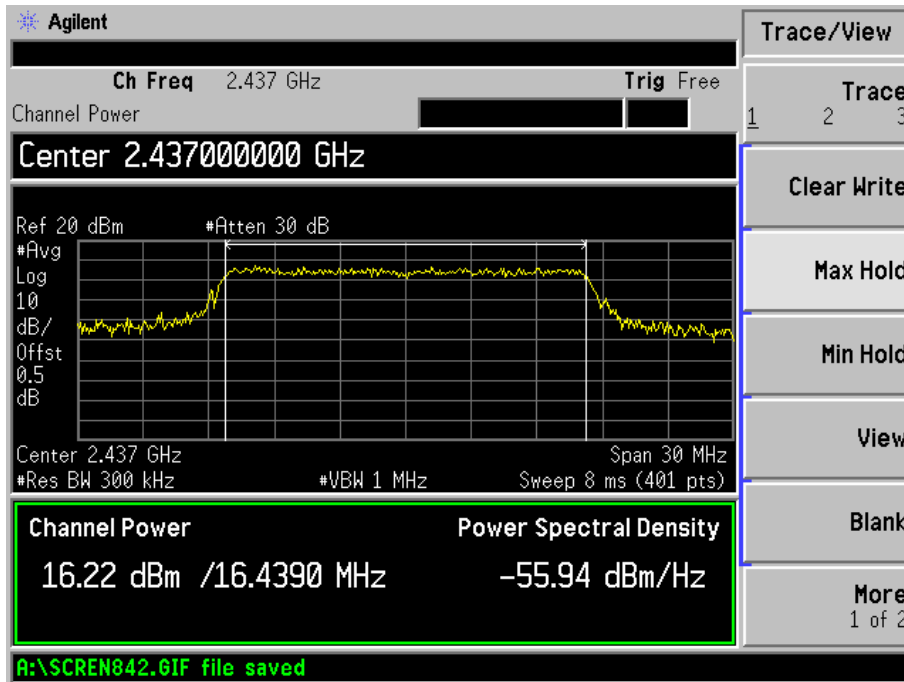
802.11b-11Mbps -High Channel



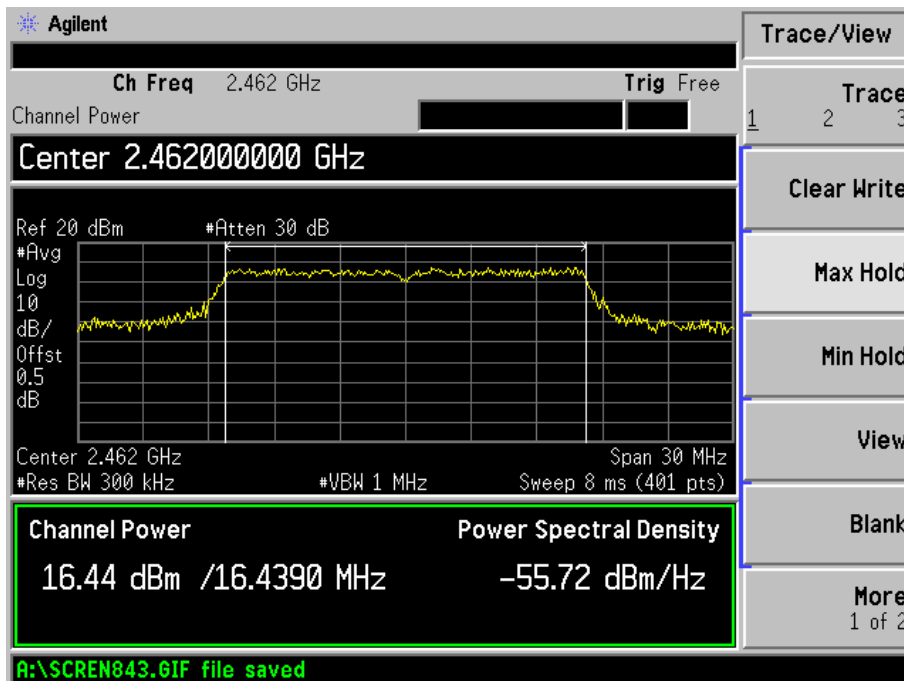
802.11g-54Mbps -Low Channel



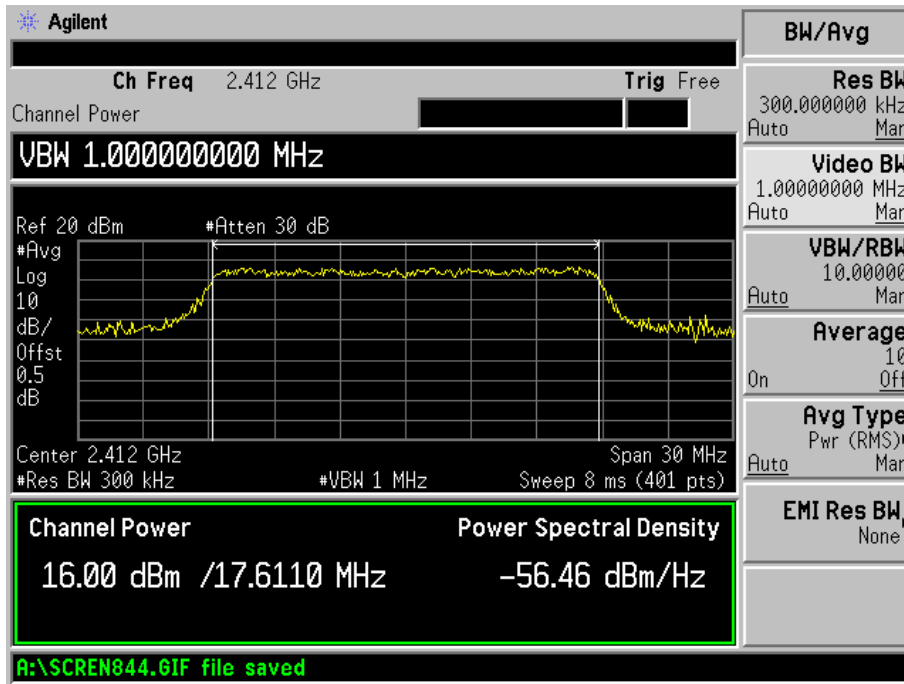
802.11g-54Mbps -Middle Channel



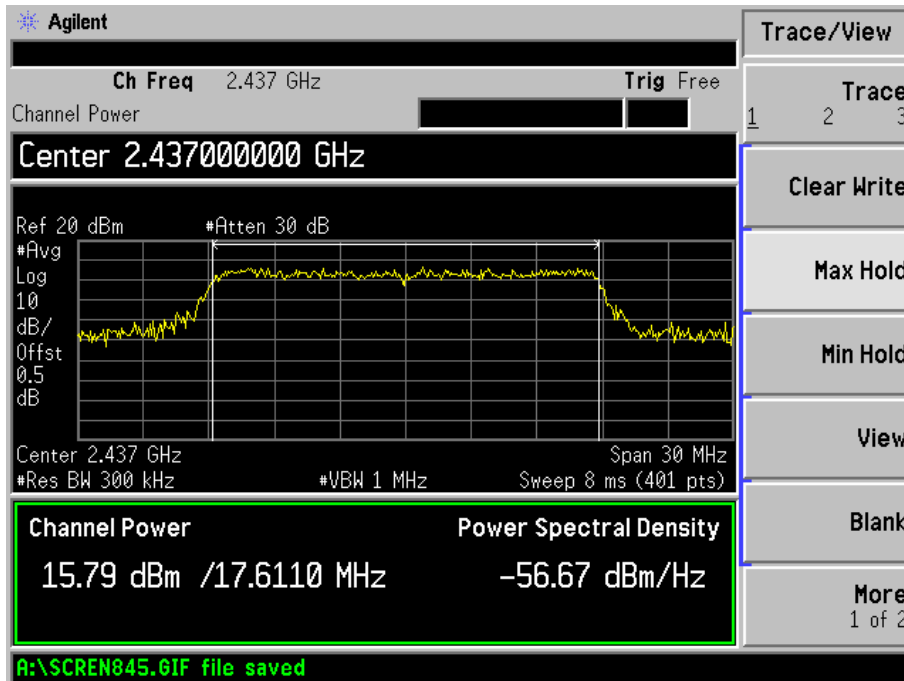
802.11g-54Mbps -High Channel



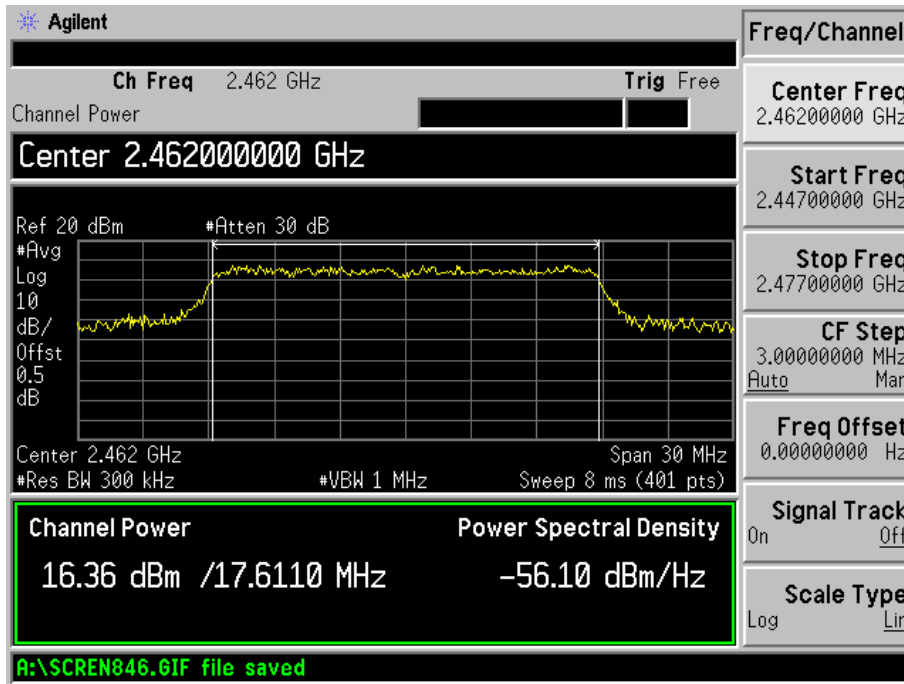
802.11n-HT20-MCS7-Low Channel



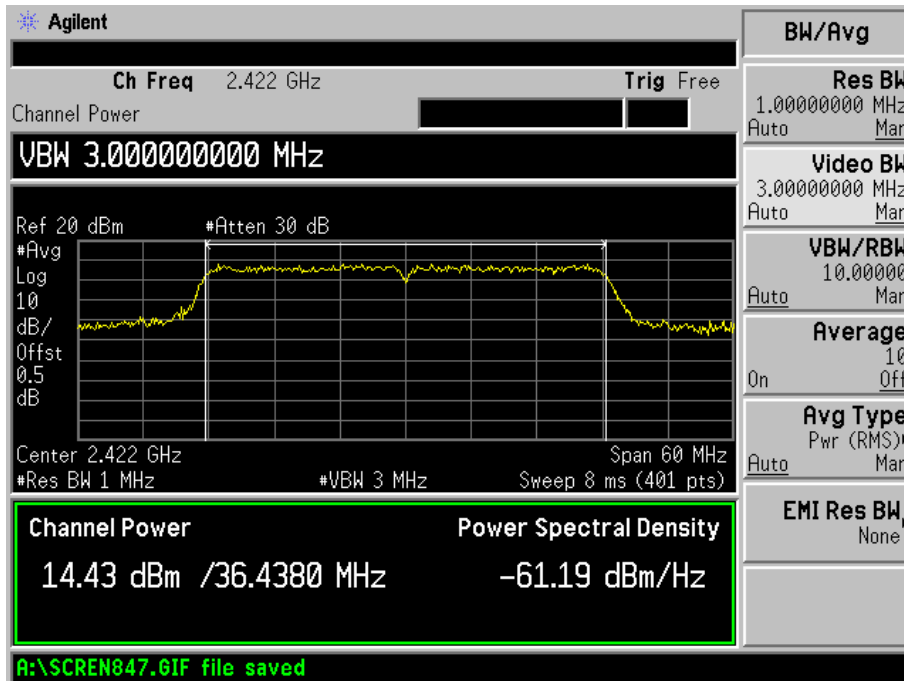
802.11n-HT20-MCS7-Middle Channel



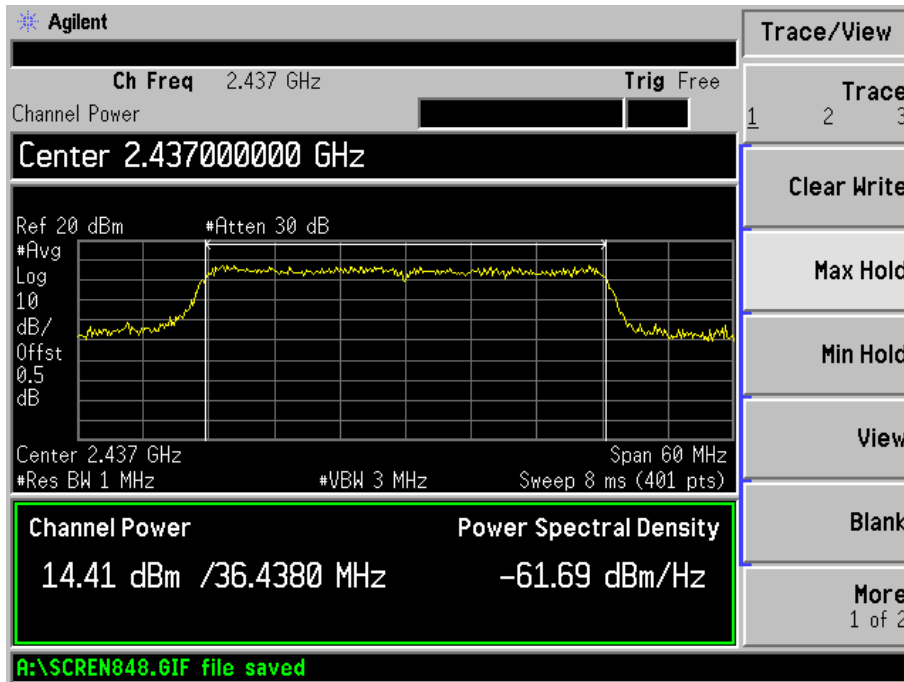
802.11n-HT20-MCS7-High Channel



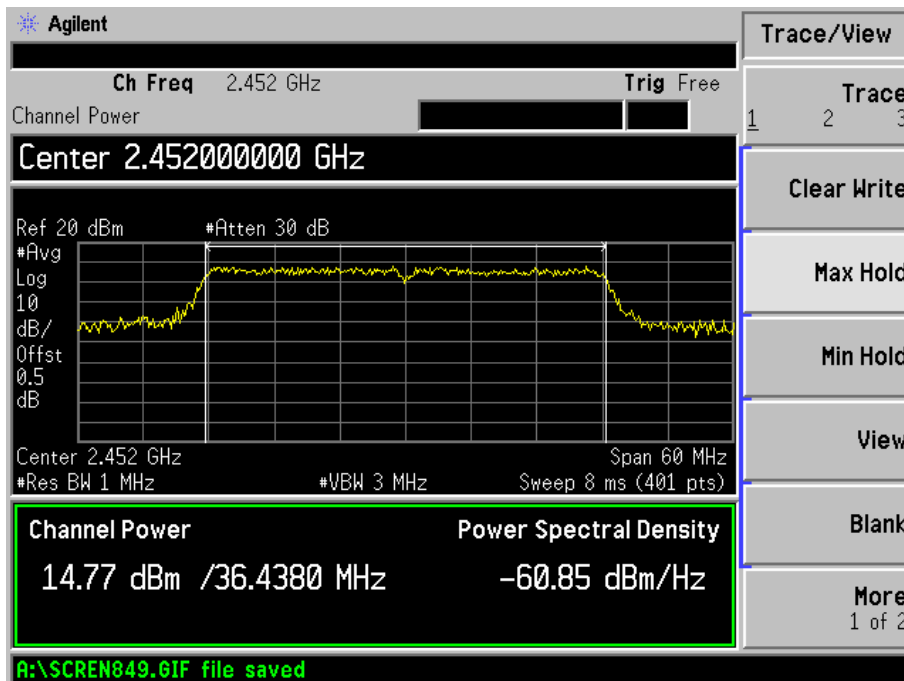
802.11n-HT40-MCS7-Low Channel



802.11n-HT40-MCS7-Middle Channel



802.11n-HT40-MCS7-High Channel



8. Field Strength of Spurious Emissions

8.1 Standard Applicable

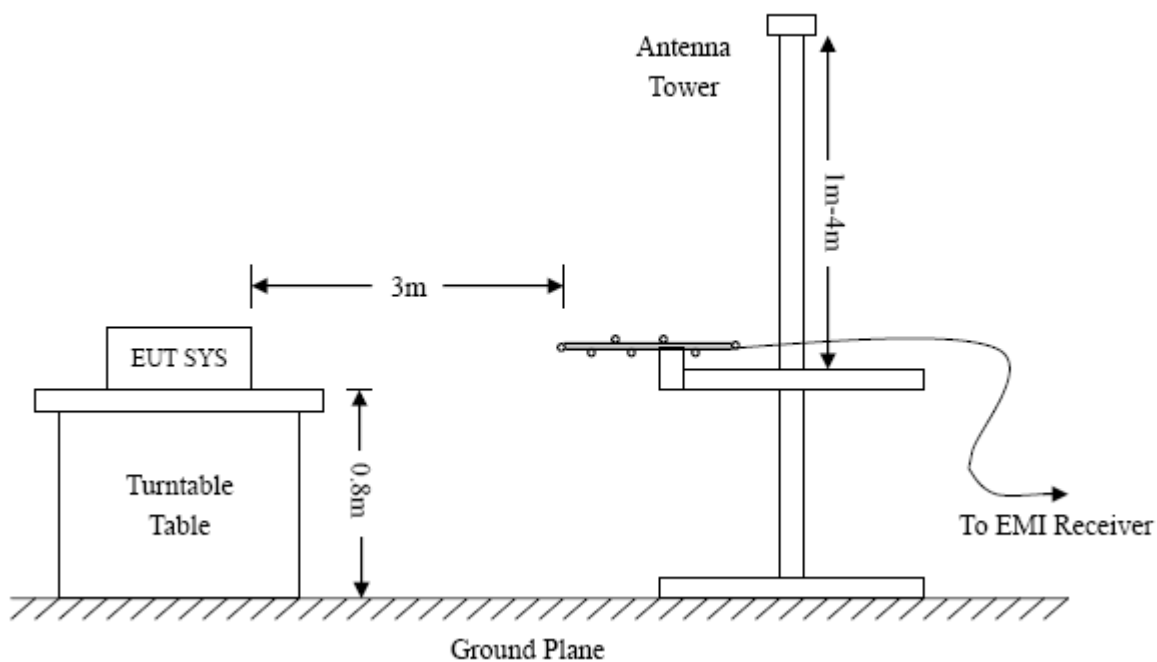
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

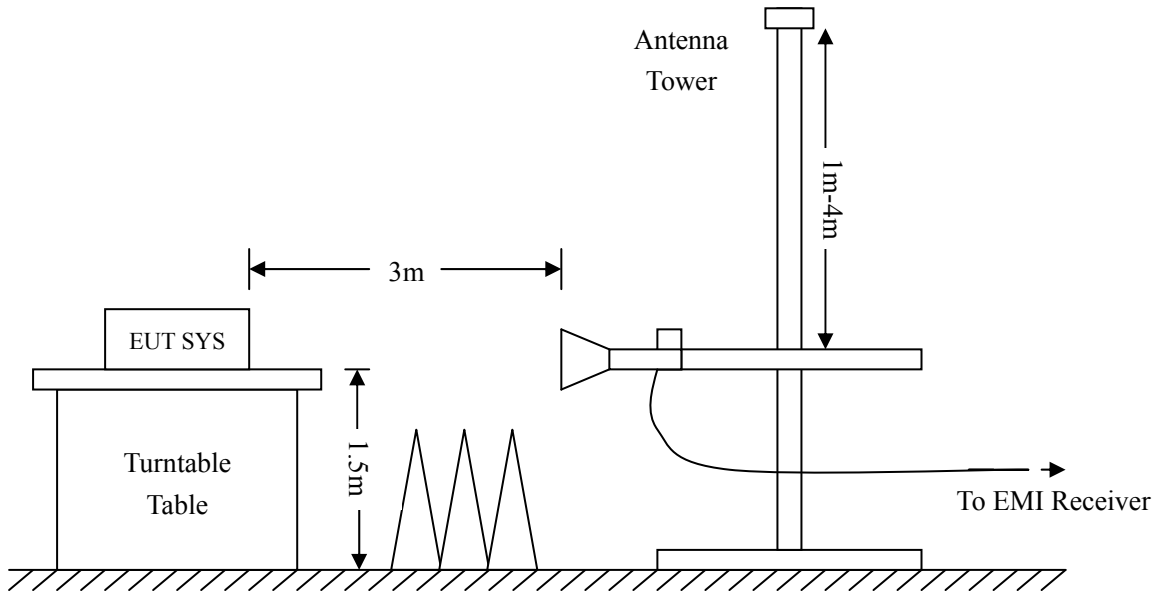
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

8.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.





Frequency :9kHz-30MHz	Ground Plane Frequency :30MHz-1GHz	Frequency :Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	Trace = max hold
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

8.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

8.4 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

8.5 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst cases:

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Spurious Emissions, Harmonics and Restricted Band

Note: *means Restricted Band

Test Mode: 802.11b

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dBµV/m)	FCC Part 15.247/205/209	
	Reading (dBµV/m)	Detector (PK/QP/Av)		Height (m)	Polar (H/V)			Limit (dBµV/m)	Margin (dB)
Low Channel-2412MHz									
665.80	21.35	QP	127	1.6	H	17.9	39.25	46	-6.75
665.80	19.36	QP	149	1.8	V	17.9	37.26	46	-8.74
2310.00*	53.65	PK	280	1.7	H	8.31	61.96	74	-12.04
2310.00*	37.42	AV	280	1.7	V	8.31	45.73	54	-8.27
2390.00*	46.60	PK	298	1.6	H	7.65	54.25	74	-19.75
2390.00*	35.30	AV	298	1.6	V	7.65	42.95	54	-11.05
2483.50*	56.79	PK	229	1.5	H	7.45	64.24	74	-9.76
2483.50*	40.91	AV	229	1.5	V	7.45	48.36	54	-5.64
2500.00*	43.42	PK	202	1.3	H	7.46	50.88	74	-23.12
2500.00*	33.11	AV	202	1.3	V	7.46	40.57	54	-13.43
4824.00	47.28	PK	297	1.5	H	12.40	59.68	74	-14.32
4824.00	31.68	AV	297	1.5	V	12.40	44.08	54	-9.92
7236.00	47.00	PK	222	1.4	H	15.52	62.52	74	-11.48
7236.00	29.39	AV	222	1.4	V	15.52	44.91	54	-9.09
9648.00	44.89	PK	172	1.4	H	18.72	63.61	74	-10.39
9648.00	29.29	AV	172	1.4	V	18.72	48.01	54	-5.99
Middle Channel-2437MHz									
665.80	22.34	QP	184	1.5	H	17.90	40.24	46	-5.76
665.80	20.66	QP	298	1.4	V	17.90	38.56	46	-7.44
2310.00*	54.57	PK	112	1.6	H	8.31	62.88	74	-11.12
2310.00*	36.73	AV	112	1.6	V	8.31	45.04	54	-8.96
2390.00*	49.40	PK	126	1.7	H	7.65	57.05	74	-16.95
2390.00*	37.00	AV	126	1.7	V	7.65	44.65	54	-9.35
2483.50*	52.36	PK	205	1.5	H	7.45	59.81	74	-14.19
2483.50*	42.53	AV	205	1.5	V	7.45	49.98	54	-4.02
2500.00*	45.17	PK	247	1.5	H	7.46	52.63	74	-21.37
2500.00*	40.88	AV	247	1.5	V	7.46	48.34	54	-5.66

4874.00	45.19	PK	125	1.5	H	12.46	57.65	74	-16.35
4874.00	35.21	AV	125	1.5	V	12.46	47.67	54	-6.33
7311.00	50.65	PK	133	1.6	H	15.56	66.21	74	-7.79
7311.00	31.96	AV	133	1.6	V	15.56	47.52	54	-6.48
9748.00	44.52	PK	151	1.5	H	18.85	63.37	74	-10.63
9748.00	28.08	AV	151	1.5	V	18.85	46.93	54	-7.07
High Channel-2462MHz									
665.80	19.29	QP	202	1.7	H	17.90	37.19	46	-8.81
665.80	19.59	QP	189	1.4	V	17.90	37.49	46	-8.51
2310.00*	52.88	PK	266	1.4	H	8.31	61.19	74	-12.81
2310.00*	35.41	AV	266	1.4	V	8.31	43.72	54	-10.28
2390.00*	48.51	PK	306	1.6	H	7.65	56.16	74	-17.84
2390.00*	36.27	AV	306	1.6	V	7.65	43.92	54	-10.08
2483.50*	52.63	PK	270	1.6	H	7.45	60.08	74	-13.92
2483.50*	38.76	AV	270	1.6	V	7.45	46.21	54	-7.79
2500.00*	42.05	PK	220	1.5	H	7.46	49.51	74	-24.49
2500.00*	37.35	AV	220	1.5	V	7.46	44.81	54	-9.19
4924.00	51.04	PK	224	1.7	H	12.55	63.59	74	-10.41
4924.00	33.11	AV	224	1.7	V	12.55	45.66	54	-8.34
7386.00	46.17	PK	238	1.7	H	15.64	61.81	74	-12.19
7386.00	31.81	AV	238	1.7	V	15.64	47.45	54	-6.55
9848.00	46.71	PK	170	1.8	H	18.89	65.60	74	-8.40
9848.00	29.02	AV	170	1.8	V	18.89	47.91	54	-6.09

Test Mode: 802.11g

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V/m)	Detector (PK/QP/Av)		Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Low Channel-2412MHz									
665.80	18.12	QP	118	1.6	H	17.90	36.02	46	-9.98
665.80	21.71	QP	175	1.5	V	17.90	39.61	46	-6.39
2310.00*	51.07	PK	226	1.3	H	8.31	59.38	74	-14.62
2310.00*	35.83	AV	226	1.3	V	8.31	44.14	54	-9.86
2390.00*	49.76	PK	175	1.6	H	7.65	57.41	74	-16.59
2390.00*	39.06	AV	175	1.6	V	7.65	46.71	54	-7.29
2483.50*	51.67	PK	124	1.7	H	7.45	59.12	74	-14.88
2483.50*	38.02	AV	124	1.7	V	7.45	45.47	54	-8.53
2500.00*	41.62	PK	181	1.6	H	7.46	49.08	74	-24.92
2500.00*	40.70	AV	181	1.6	V	7.46	48.16	54	-5.84
4824.00	45.72	PK	169	1.7	H	12.37	58.09	74	-15.91
4824.00	37.26	AV	169	1.7	V	12.37	49.63	54	-4.37
7236.00	49.79	PK	181	1.5	H	15.49	65.28	74	-8.72
7236.00	28.07	AV	181	1.5	V	15.49	43.56	54	-10.44
9648.00	44.73	PK	175	1.3	H	18.72	63.45	74	-10.55
9648.00	28.70	AV	175	1.3	V	18.72	47.42	54	-6.58
Middle Channel-2437MHz									
665.80	22.79	QP	167	1.7	H	17.90	40.69	46	-5.31
665.80	20.5	QP	161	1.7	V	17.90	38.40	46	-7.60
2310.00*	54.15	PK	142	1.6	H	8.31	62.46	74	-11.54
2310.00*	36.45	AV	142	1.6	V	8.31	44.76	54	-9.24
2390.00*	48.69	PK	144	1.6	H	7.65	56.34	74	-17.66
2390.00*	39.88	AV	144	1.6	V	7.65	47.53	54	-6.47
2483.50*	52.73	PK	114	1.7	H	7.45	60.18	74	-13.82
2483.50*	41.67	AV	114	1.7	V	7.45	49.12	54	-4.88
2500.00*	45.18	PK	244	1.5	H	7.46	52.64	74	-21.36
2500.00*	33.54	AV	244	1.5	V	7.46	41.00	54	-13.00
4874.00	46.88	PK	185	1.5	H	12.46	59.34	74	-14.66
4874.00	36.65	AV	185	1.5	V	12.46	49.11	54	-4.89

7311.00	50.33	PK	277	1.5	H	15.56	65.89	74	-8.11
7311.00	29.67	AV	277	1.5	V	15.56	45.23	54	-8.77
9748.00	41.25	PK	304	1.5	H	18.85	60.10	74	-13.90
9748.00	28.39	AV	304	1.5	V	18.85	47.24	54	-6.76
High Channel-2462MHz									
665.80	18.68	QP	147	1.6	H	17.90	36.58	46	-9.42
665.80	20.75	QP	136	1.7	V	17.90	38.65	46	-7.35
2310.00*	47.90	PK	237	1.3	H	8.31	56.21	74	-17.79
2310.00*	37.65	AV	237	1.3	V	8.31	45.96	54	-8.04
2390.00*	50.67	PK	138	1.3	H	7.65	58.32	74	-15.68
2390.00*	35.84	AV	138	1.3	V	7.65	43.49	54	-10.51
2483.50*	55.93	PK	287	1.5	H	7.45	63.38	74	-10.62
2483.50*	38.05	AV	287	1.5	V	7.45	45.50	54	-8.50
2500.00*	47.64	PK	286	1.3	H	7.46	55.10	74	-18.90
2500.00*	36.82	AV	286	1.3	V	7.46	44.28	54	-9.72
4924.00	46.26	PK	260	1.7	H	12.55	58.81	74	-15.19
4924.00	33.09	AV	260	1.7	V	12.55	45.64	54	-8.36
7386.00	46.55	PK	300	1.3	H	15.64	62.19	74	-11.81
7386.00	28.07	AV	300	1.3	V	15.64	43.71	54	-10.29
9848.00	44.24	PK	200	1.4	H	18.89	63.13	74	-10.87
9848.00	26.41	AV	200	1.4	V	18.89	45.30	54	-8.70

Test Mode: 802.11n-HT20

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V/m)	Detector (PK/QP/Av)		Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Low Channel-2412MHz									
665.80	18.73	QP	263	1.8	H	17.90	36.63	46	-9.37
665.80	21.64	QP	285	1.4	V	17.90	39.54	46	-6.46
2310.00*	48.42	PK	158	1.6	H	8.31	56.73	74	-17.27
2310.00*	35.20	AV	158	1.6	V	8.31	43.51	54	-10.49
2390.00*	49.43	PK	203	1.8	H	7.65	57.08	74	-16.92
2390.00*	35.58	AV	203	1.8	V	7.65	43.23	54	-10.77
2483.50*	59.80	PK	178	1.5	H	7.45	67.25	74	-6.75
2483.50*	41.38	AV	178	1.5	V	7.45	48.83	54	-5.17
2500.00*	42.49	PK	185	1.4	H	7.46	49.95	74	-24.05
2500.00*	35.28	AV	185	1.4	V	7.46	42.74	54	-11.26
4824.00	51.82	PK	286	1.4	H	12.37	64.19	74	-9.81
4824.00	30.44	AV	286	1.4	V	12.37	42.81	54	-11.19
7236.00	45.72	PK	207	1.8	H	15.49	61.21	74	-12.79
7236.00	30.17	AV	207	1.8	V	15.49	45.66	54	-8.34
9648.00	40.52	PK	183	1.6	H	18.72	59.24	74	-14.76
9648.00	27.29	AV	183	1.6	V	18.72	46.01	54	-7.99
Middle Channel-2437MHz									
665.80	20.44	QP	139	1.8	H	17.90	38.34	46	-7.66
665.80	20.71	QP	214	1.6	V	17.90	38.61	46	-7.39
2310.00*	55.45	PK	220	1.8	H	8.31	63.76	74	-10.24
2310.00*	38.76	AV	220	1.8	V	8.31	47.07	54	-6.93
2390.00*	50.02	PK	274	1.6	H	7.65	57.67	74	-16.33
2390.00*	35.03	AV	274	1.6	V	7.65	42.68	54	-11.32
2483.50*	59.69	PK	295	1.5	H	7.45	67.14	74	-6.86
2483.50*	40.42	AV	295	1.5	V	7.45	47.87	54	-6.13
2500.00*	48.61	PK	128	1.6	H	7.46	56.07	74	-17.93
2500.00*	40.55	AV	128	1.6	V	7.46	48.01	54	-5.99
4874.00	49.17	PK	169	1.6	H	12.46	61.63	74	-12.37
4874.00	32.17	AV	169	1.6	V	12.46	44.63	54	-9.37

7311.00	43.29	PK	112	1.5	H	15.56	58.85	74	-15.15
7311.00	32.02	AV	112	1.5	V	15.56	47.58	54	-6.42
9748.00	41.11	PK	220	1.4	H	18.85	59.96	74	-14.04
9748.00	26.24	AV	220	1.4	V	18.85	45.09	54	-8.91
High Channel-2462MHz									
665.80	23	QP	239	1.5	H	17.90	40.90	46	-5.10
665.80	21.91	QP	234	1.4	V	17.90	39.81	46	-6.19
2310.00*	47.41	PK	172	1.6	H	8.31	55.72	74	-18.28
2310.00*	34.85	AV	172	1.6	V	8.31	43.16	54	-10.84
2390.00*	53.18	PK	237	1.5	H	7.65	60.83	74	-13.17
2390.00*	36.09	AV	237	1.5	V	7.65	43.74	54	-10.26
2483.50*	52.69	PK	242	1.4	H	7.45	60.14	74	-13.86
2483.50*	39.32	AV	242	1.4	V	7.45	46.77	54	-7.23
2500.00*	40.04	PK	229	1.4	H	7.46	47.50	74	-26.50
2500.00*	34.76	AV	229	1.4	V	7.46	42.22	54	-11.78
4924.00	48.68	PK	239	1.5	H	12.55	61.23	74	-12.77
4924.00	35.00	AV	239	1.5	V	12.55	47.55	54	-6.45
7386.00	44.02	PK	223	1.3	H	15.64	59.66	74	-14.34
7386.00	30.36	AV	223	1.3	V	15.64	46.00	54	-8.00
9848.00	47.27	PK	173	1.3	H	18.89	66.16	74	-7.84
9848.00	27.65	AV	173	1.3	V	18.89	46.54	54	-7.46

Test Mode: 802.11n-HT40

Frequency (MHz)	Receiver		Turntable Degree	Rx Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/205/209	
	Reading (dB μ V/m)	Detector (PK/QP/Av)		Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
Low Channel-2422MHz									
665.80	22.8	QP	304	1.4	H	17.90	40.70	46	-5.30
665.80	19.53	QP	174	1.8	V	17.90	37.43	46	-8.57
2310.00*	55.18	PK	280	1.8	H	8.31	63.49	74	-10.51
2310.00*	38.99	AV	280	1.8	V	8.31	47.30	54	-6.70
2390.00*	50.28	PK	130	1.8	H	7.65	57.93	74	-16.07
2390.00*	35.37	AV	130	1.8	V	7.65	43.02	54	-10.98
2483.50*	50.22	PK	149	1.6	H	7.45	57.67	74	-16.33
2483.50*	40.43	AV	149	1.6	V	7.45	47.88	54	-6.12
2500.00*	43.21	PK	136	1.6	H	7.46	50.67	74	-23.33
2500.00*	37.05	AV	136	1.6	V	7.46	44.51	54	-9.49
4844.00	45.06	PK	227	1.5	H	12.40	57.46	74	-16.54
4844.00	31.32	AV	227	1.5	V	12.40	43.72	54	-10.28
7266.00	49.54	PK	220	1.3	H	15.52	65.06	74	-8.94
7266.00	32.58	AV	220	1.3	V	15.52	48.10	54	-5.90
9688.00	42.72	PK	204	1.7	H	18.78	61.50	74	-12.50
9688.00	29.89	AV	204	1.7	V	18.78	48.67	54	-5.33
Middle Channel-2437MHz									
665.80	22.72	QP	263	1.6	H	17.90	40.62	46	-5.38
665.80	19.28	QP	240	1.7	V	17.90	37.18	46	-8.82
2310.00*	50.40	PK	191	1.6	H	8.31	58.71	74	-15.29
2310.00*	37.57	AV	191	1.6	V	8.31	45.88	54	-8.12
2390.00*	52.08	PK	291	1.6	H	7.65	59.73	74	-14.27
2390.00*	39.89	AV	291	1.6	V	7.65	47.54	54	-6.46
2483.50*	50.51	PK	301	1.4	H	7.45	57.96	74	-16.04
2483.50*	42.39	AV	301	1.4	V	7.45	49.84	54	-4.16
2500.00*	47.15	PK	188	1.4	H	7.46	54.61	74	-19.39
2500.00*	35.07	AV	188	1.4	V	7.46	42.53	54	-11.47
4874.00	48.69	PK	152	1.3	H	12.46	61.15	74	-12.85
4874.00	35.64	AV	152	1.3	V	12.46	48.10	54	-5.90

7311.00	50.48	PK	199	1.5	H	15.56	66.04	74	-7.96
7311.00	28.05	AV	199	1.5	V	15.56	43.61	54	-10.39
9748.00	46.76	PK	216	1.6	H	18.85	65.61	74	-8.39
9748.00	29.69	AV	216	1.6	V	18.85	48.54	54	-5.46
High Channel-2452MHz									
665.80	21.32	QP	227	1.3	H	17.90	39.22	46	-6.78
665.80	19.81	QP	297	1.3	V	17.90	37.71	46	-8.29
2310.00*	47.45	PK	275	1.5	H	8.31	55.76	74	-18.24
2310.00*	35.12	AV	275	1.5	V	8.31	43.43	54	-10.57
2390.00*	54.09	PK	275	1.3	H	7.65	61.74	74	-12.26
2390.00*	39.65	AV	275	1.3	V	7.65	47.30	54	-6.70
2483.50*	59.58	PK	145	1.3	H	7.45	67.03	74	-6.97
2483.50*	40.80	AV	145	1.3	V	7.45	48.25	54	-5.75
2500.00*	42.31	PK	146	1.7	H	7.46	49.77	74	-24.23
2500.00*	34.38	AV	146	1.7	V	7.46	41.84	54	-12.16
4904.00	46.37	PK	197	1.4	H	12.52	58.89	74	-15.11
4904.00	34.46	AV	197	1.4	V	12.52	46.98	54	-7.02
7356.00	49.46	PK	272	1.4	H	15.61	65.07	74	-8.93
7356.00	28.18	AV	272	1.4	V	15.61	43.79	54	-10.21
9808.00	42.27	PK	126	1.5	H	18.73	61.00	74	-13.00
9808.00	29.69	AV	126	1.5	V	18.73	48.42	54	-5.58

Note: Testing is carried out with frequency rang 20MHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

9. Out of Band Emissions

9.1 Standard Applicable

According to §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

9.2 Test Procedure

According to the KDB 558074D01 v03r05, the band-edge radiated test method as follows:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

According to the KDB 558074 D01 v03r05, the conducted spurious emissions test method as follows:

1. Set start frequency to DTS channel edge frequency.
2. Set stop frequency so as to encompass the spectrum to be examined.
3. Set RBW = 100 kHz.
4. Set VBW \geq 300 kHz.
5. Detector = peak.
6. Trace Mode = max hold.
7. Sweep = auto couple.
8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

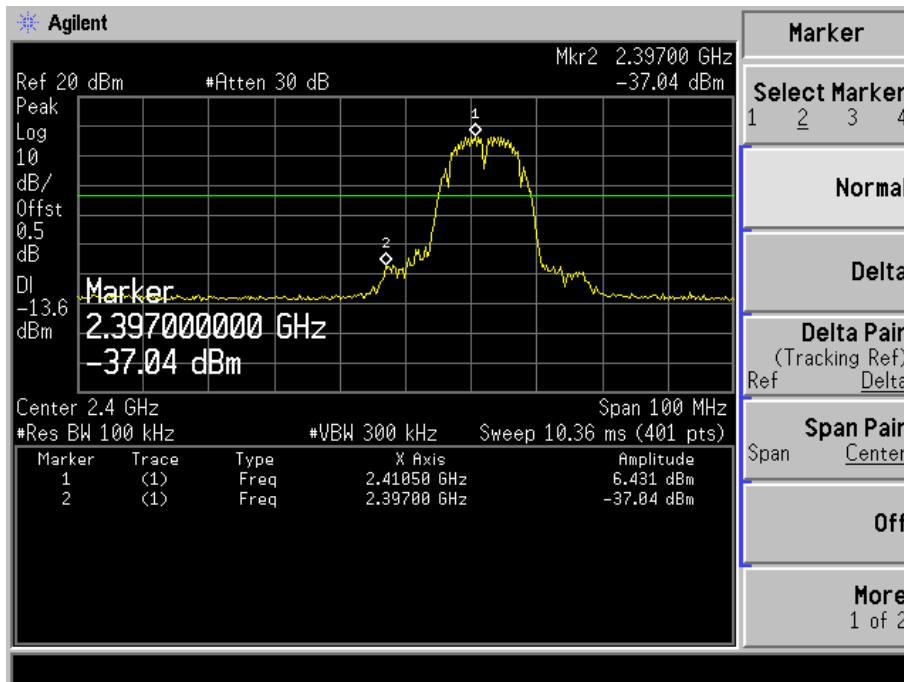
9.3 Environmental Conditions

Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

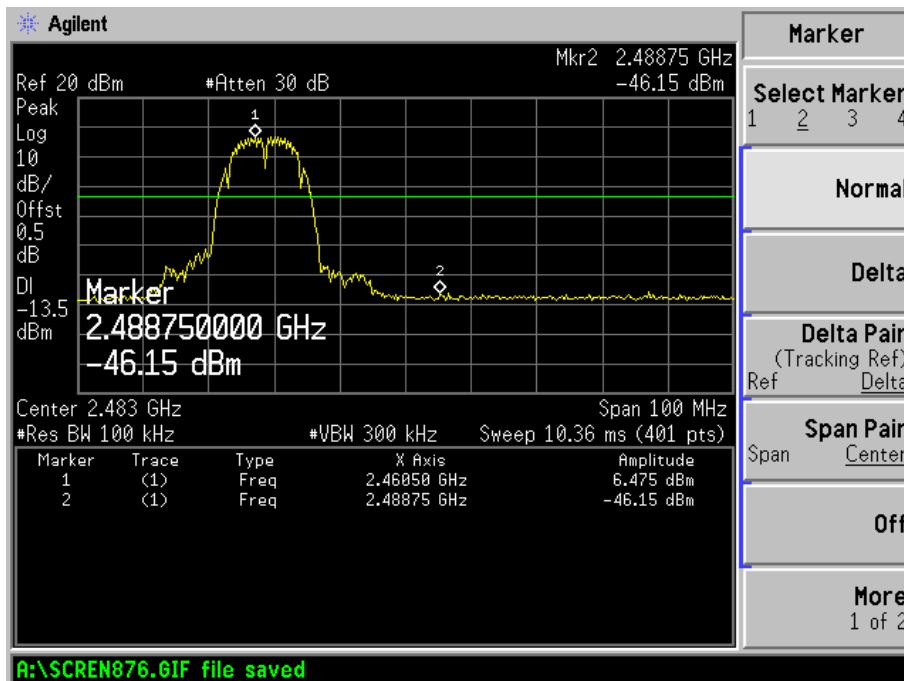
9.4 Summary of Test Results/Plots

For Antenna 0

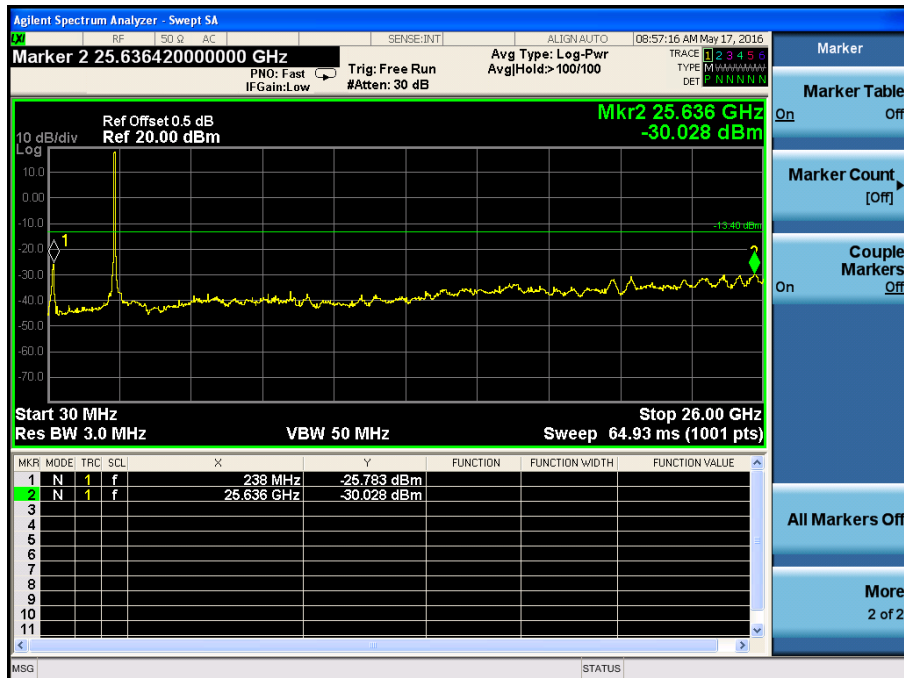
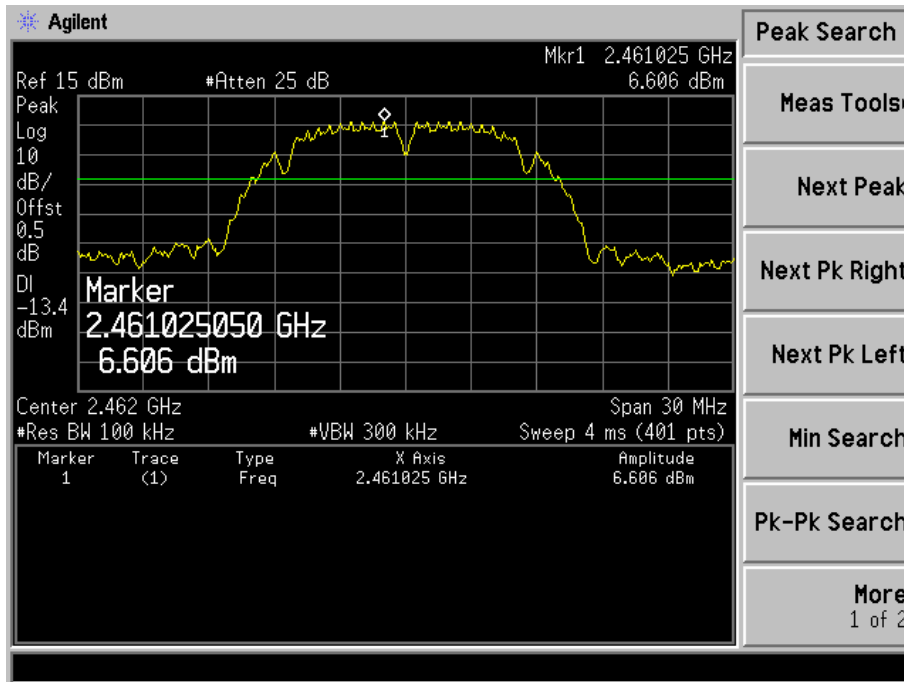
802.11b: Band Edge, Left Side



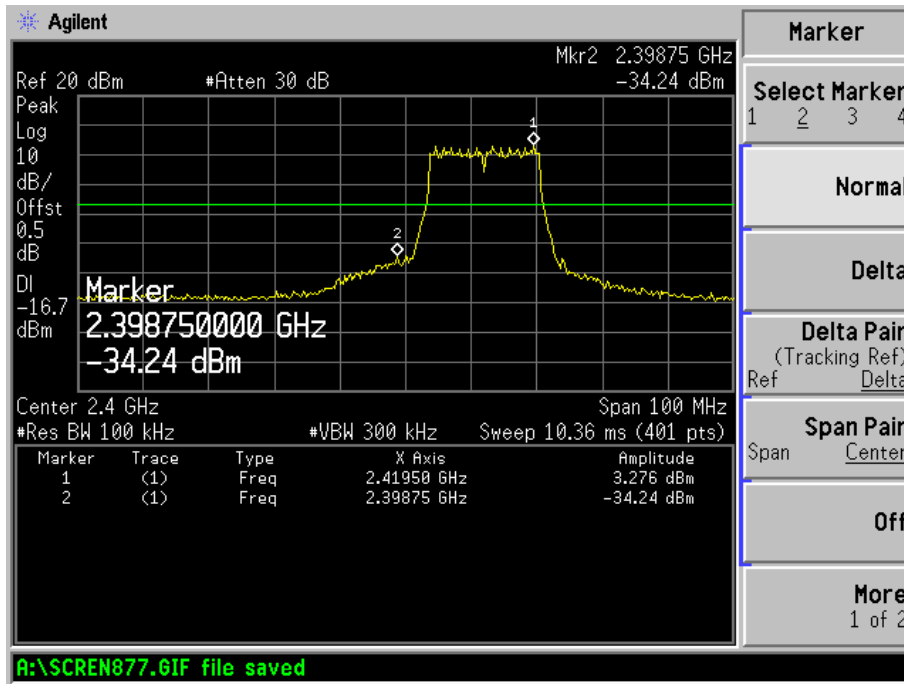
802.11b: Band Edge, Right Side



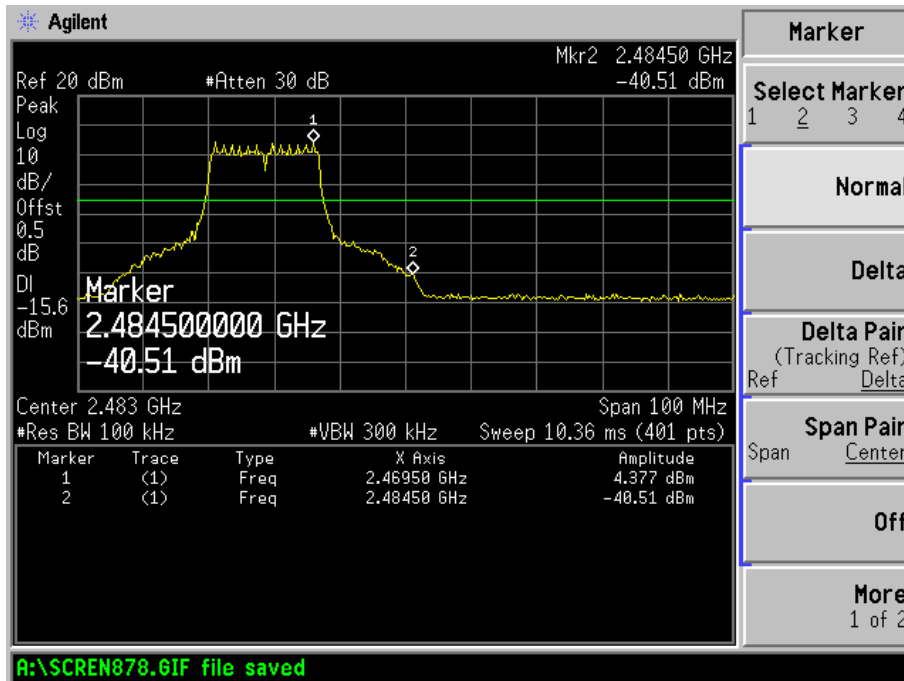
802.11b spurious emission



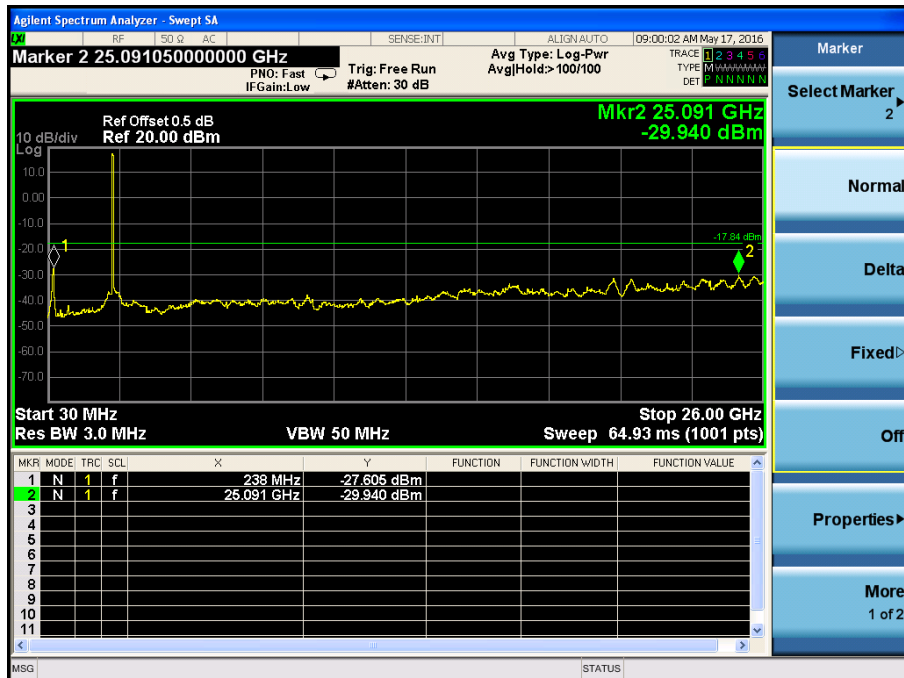
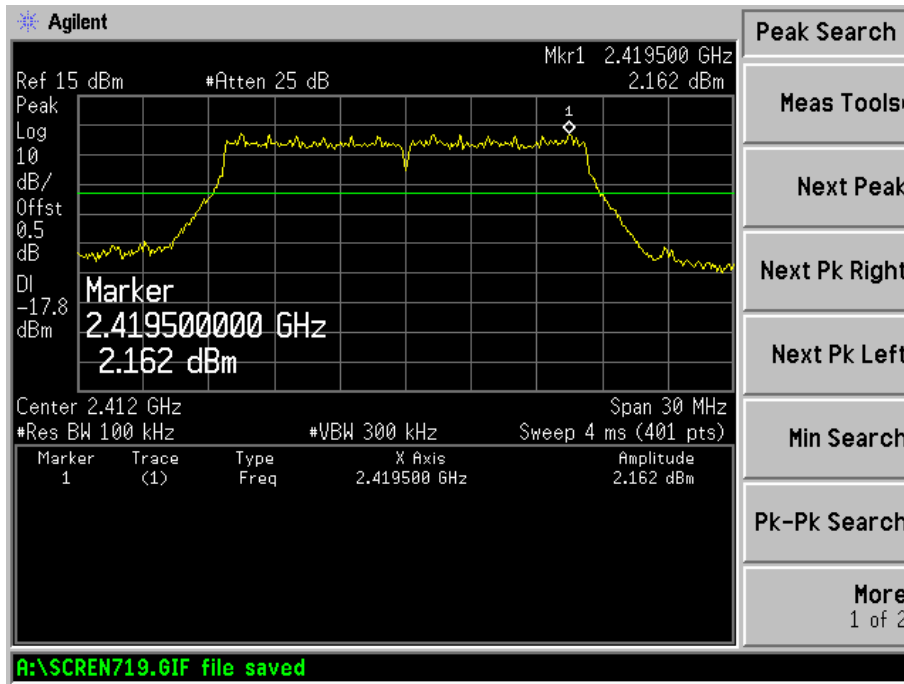
802.11g: Band Edge, Left Side



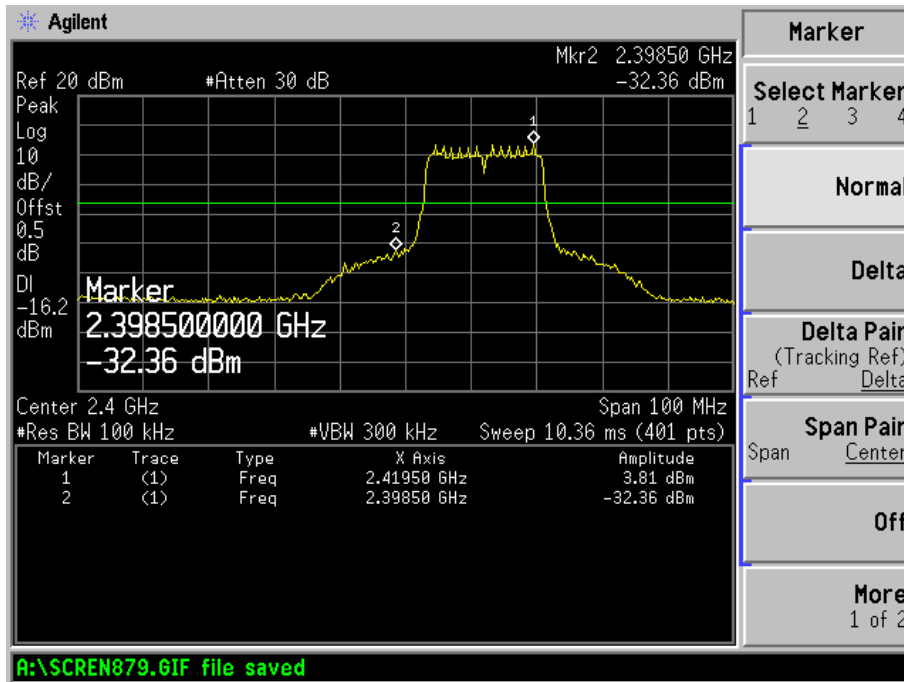
802.11g: Band Edge, Right Side



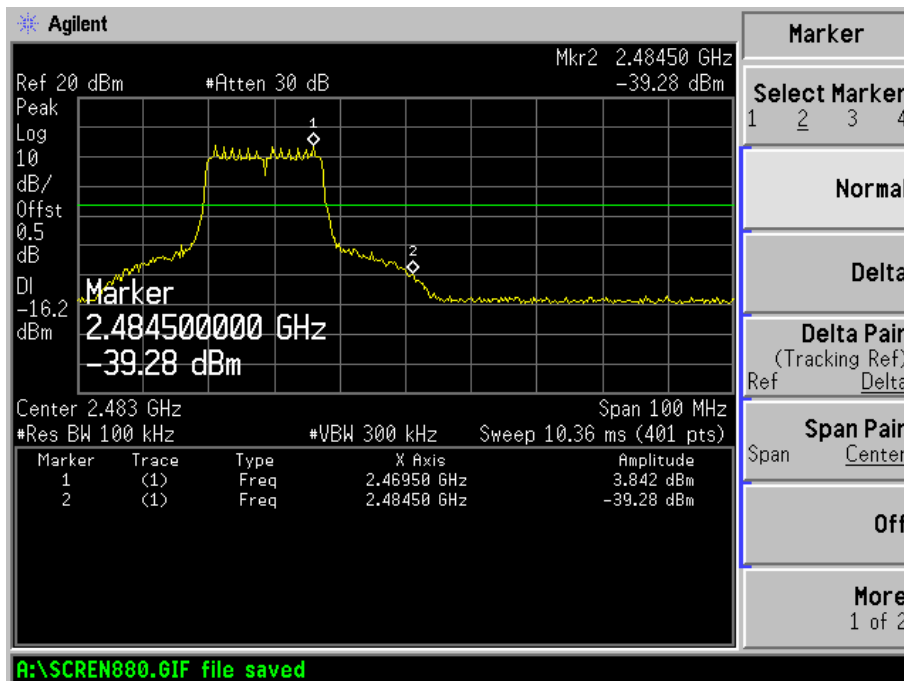
802.11g spurious emission



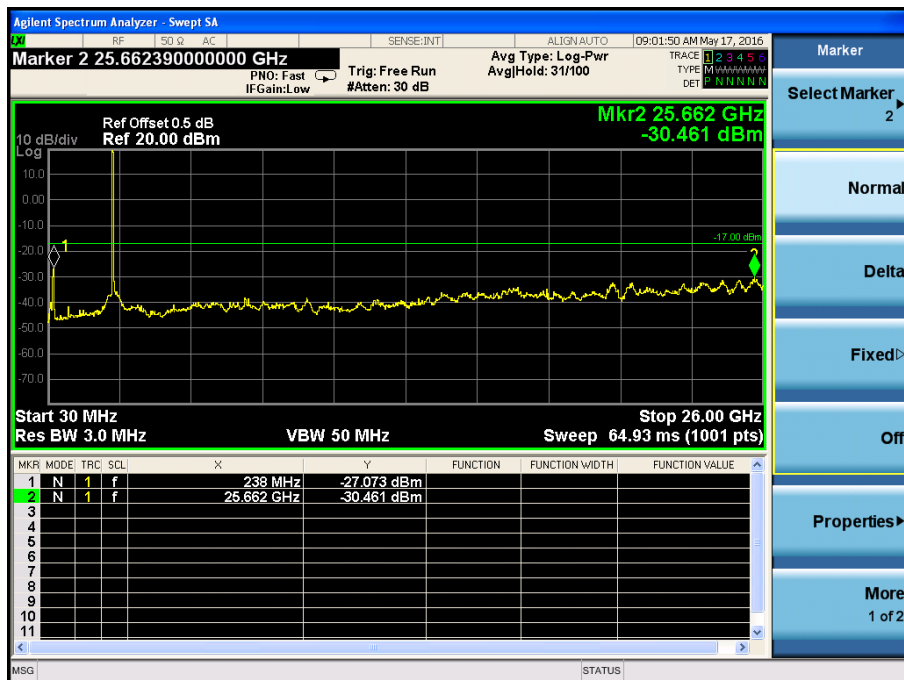
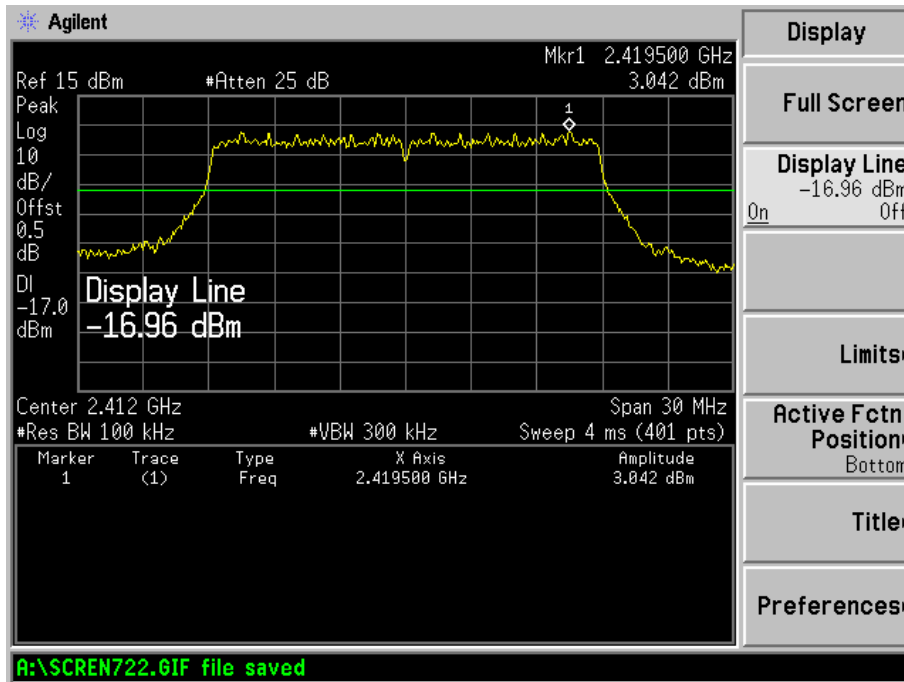
802.11n-HT20: Band Edge, Left Side



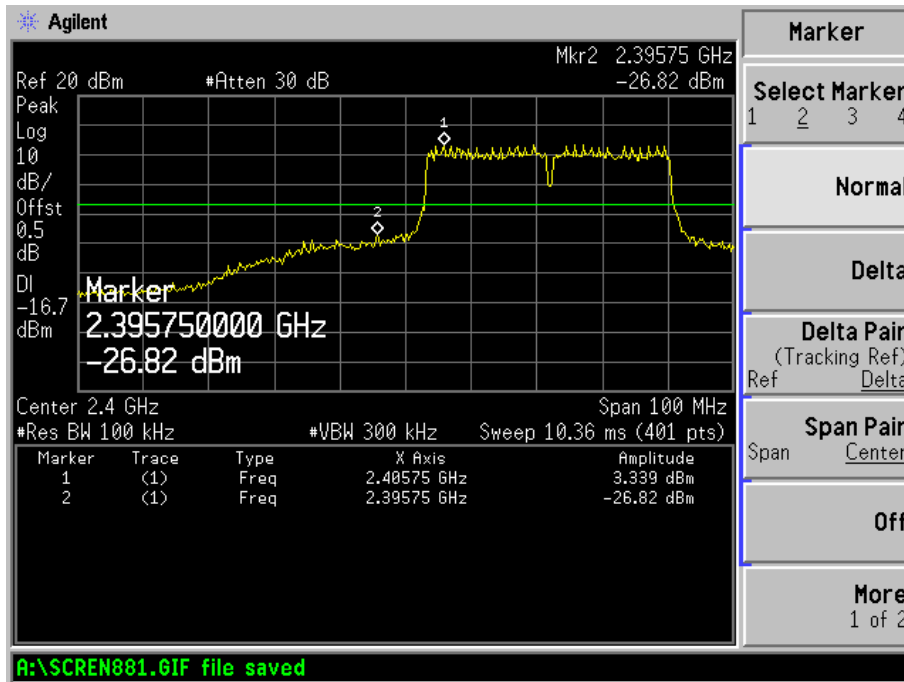
802.11n-HT20: Band Edge, Right Side



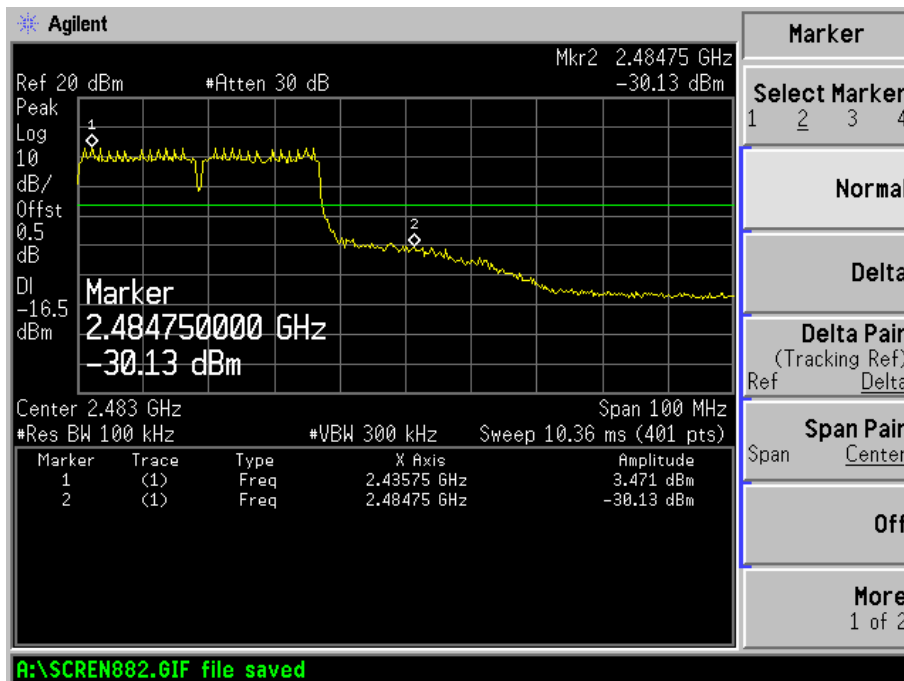
802.11n-HT20 spurious emission



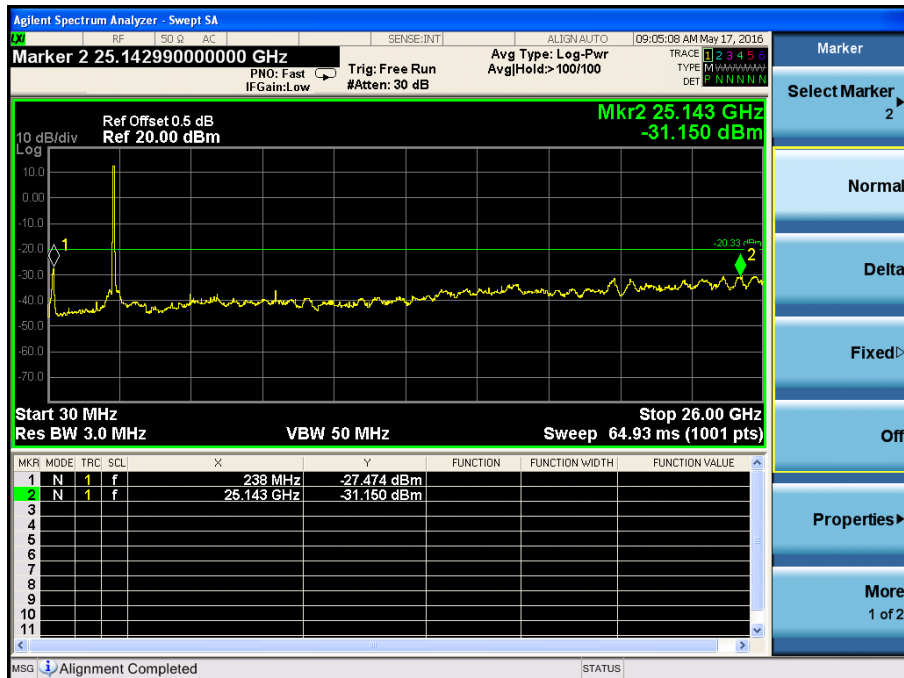
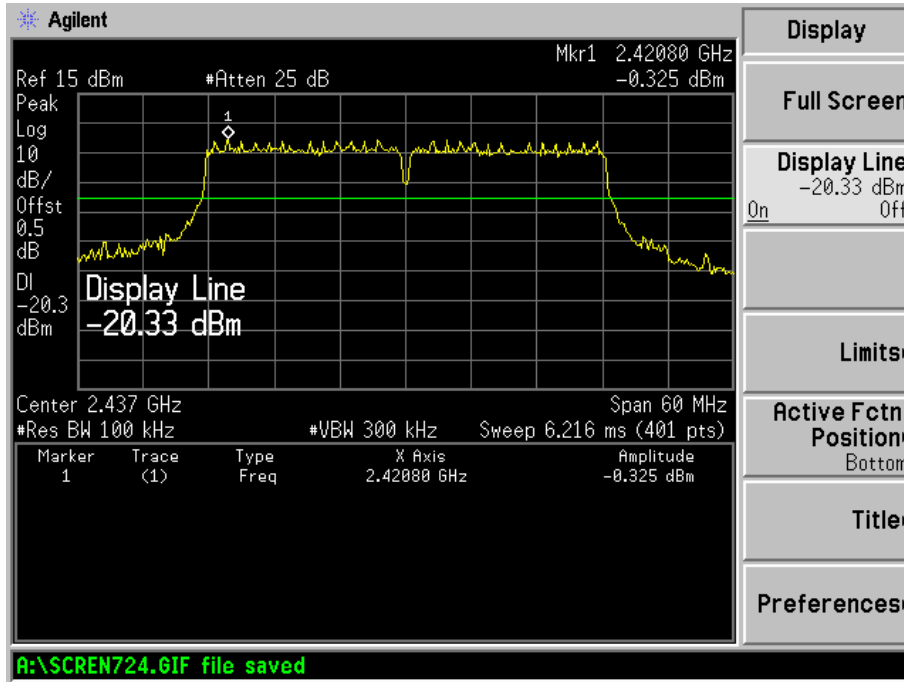
802.11n-HT40: Band Edge, Left Side



802.11n-HT40: Band Edge, Right Side

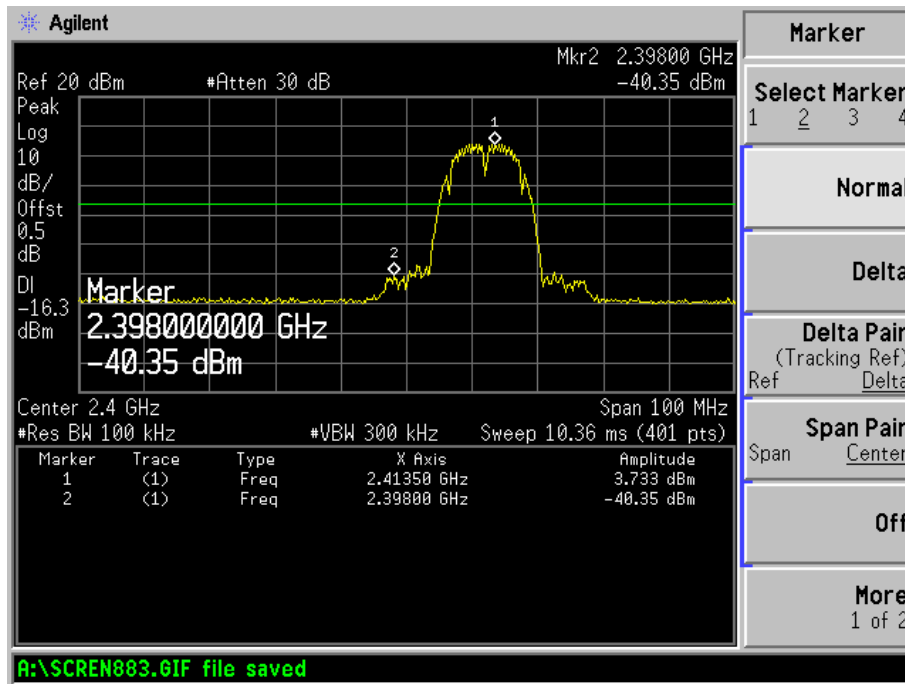


802.11n-HT20 spurious emission

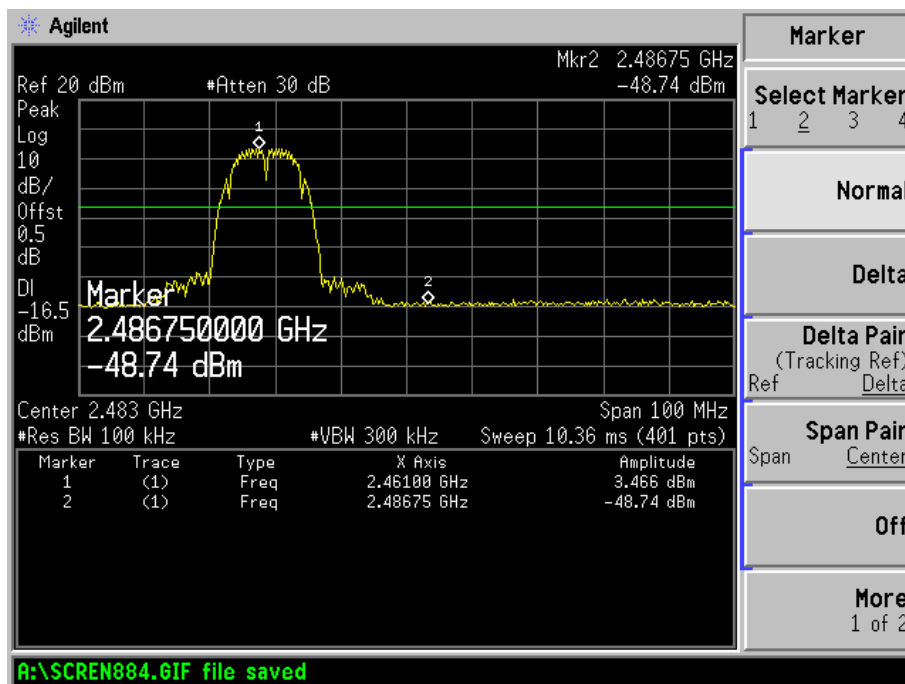


For Antenna 1

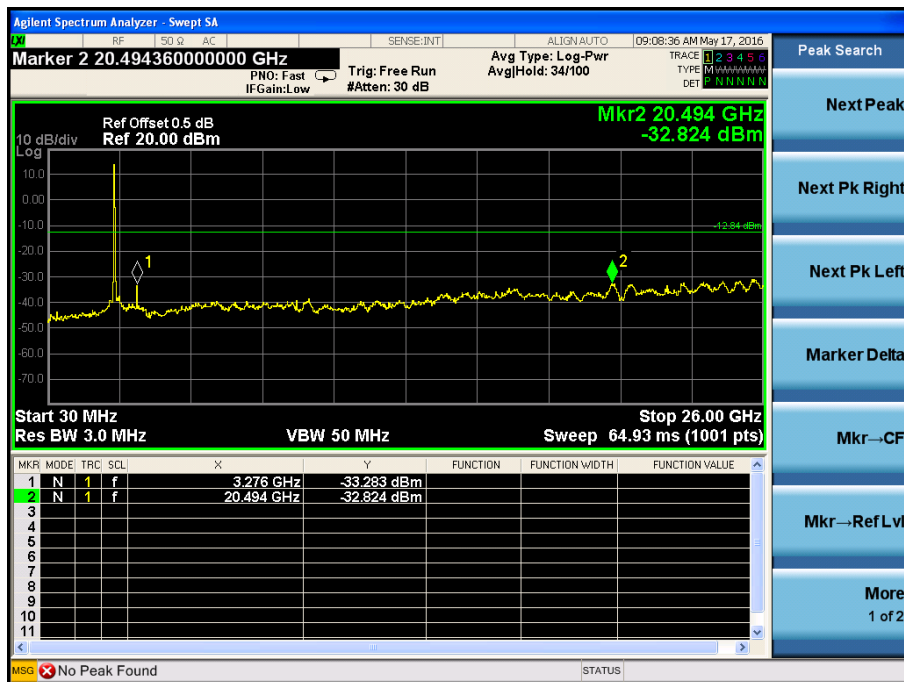
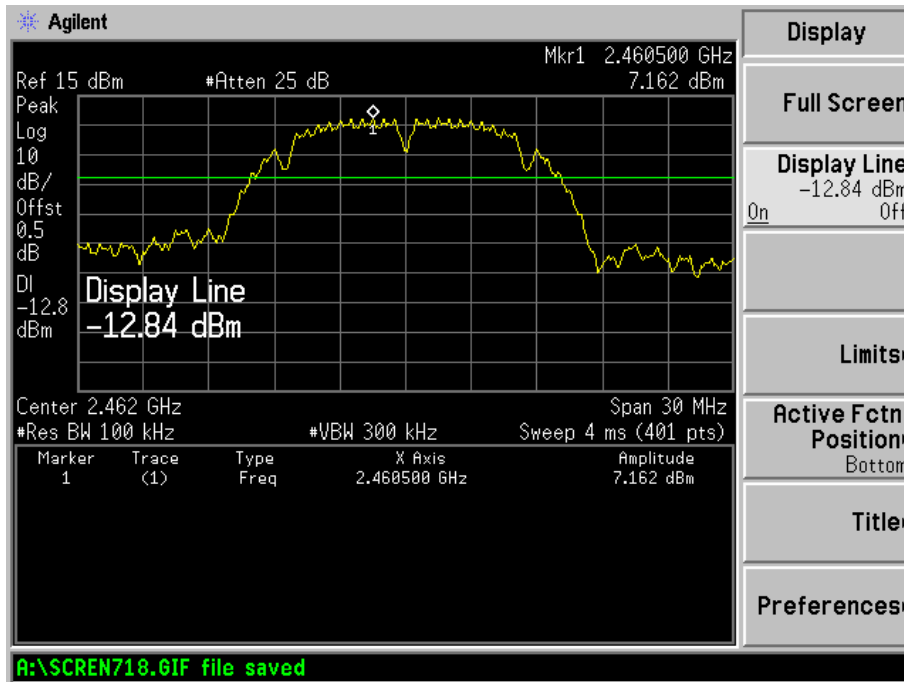
802.11b: Band Edge, Left Side



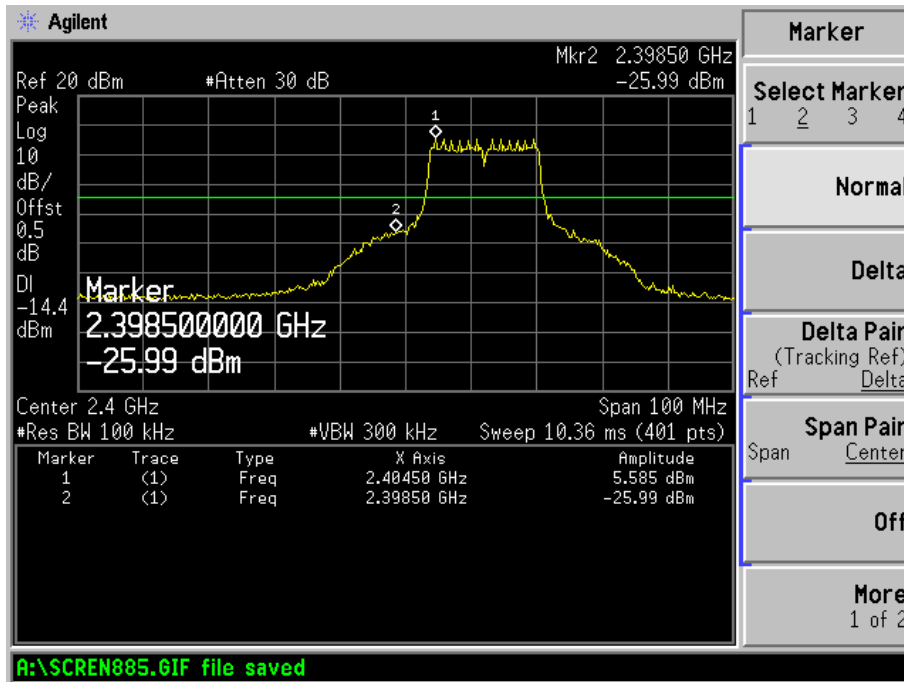
802.11b: Band Edge, Right Side



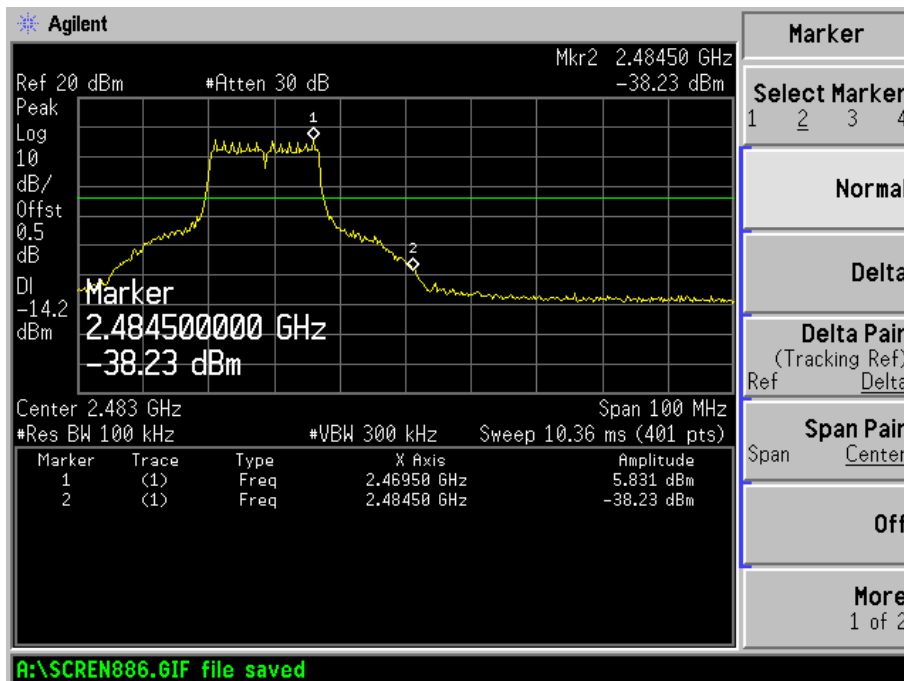
802.11b spurious emission



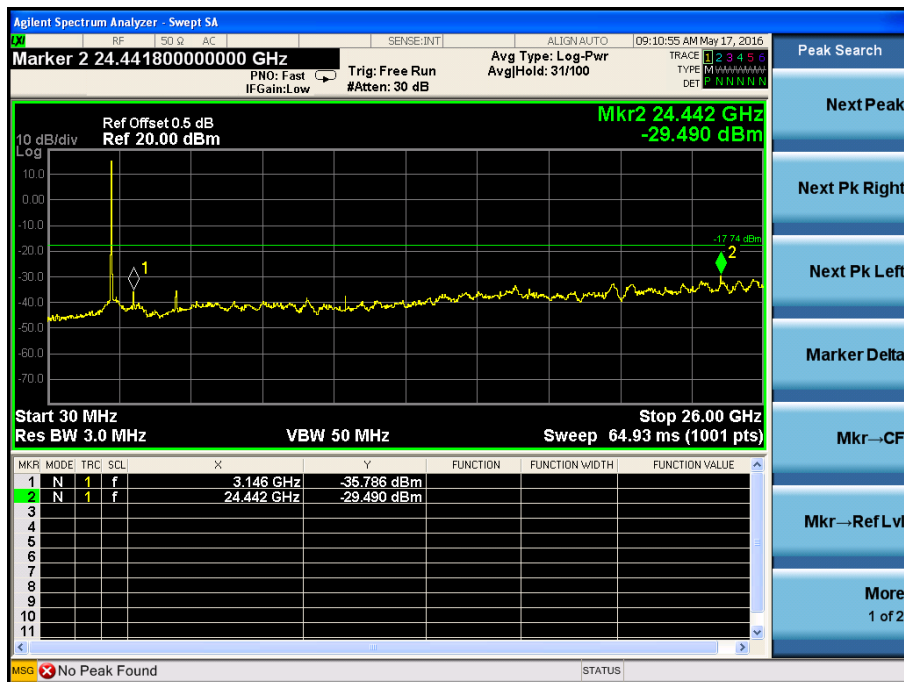
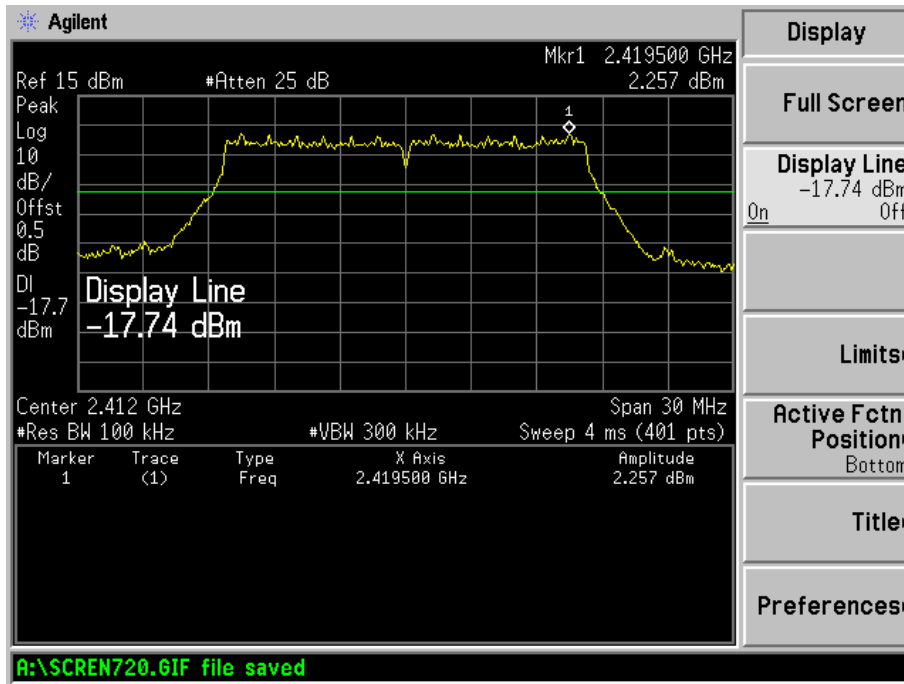
802.11g: Band Edge, Left Side



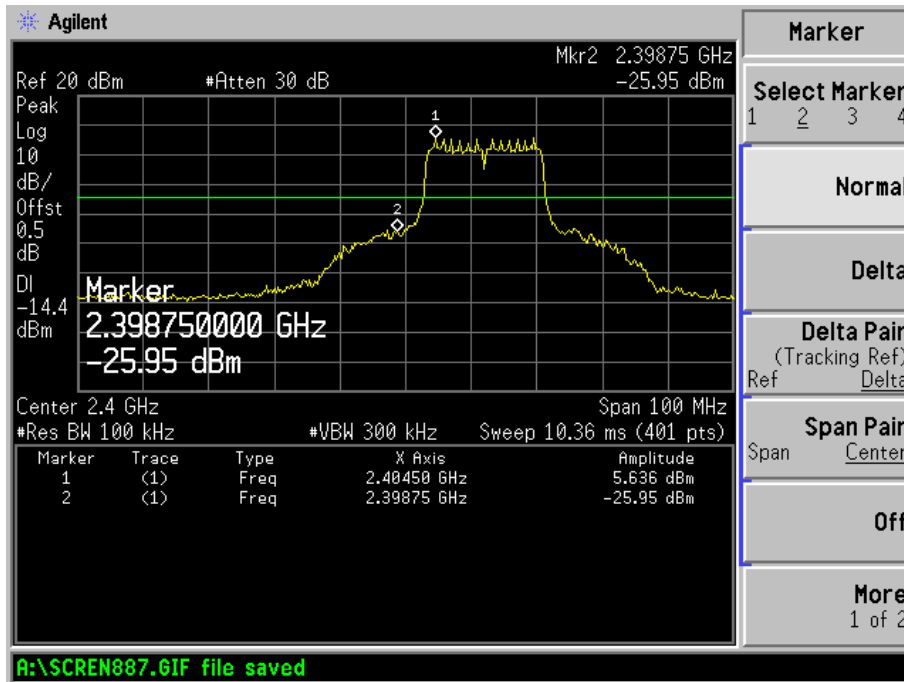
802.11g: Band Edge, Right Side



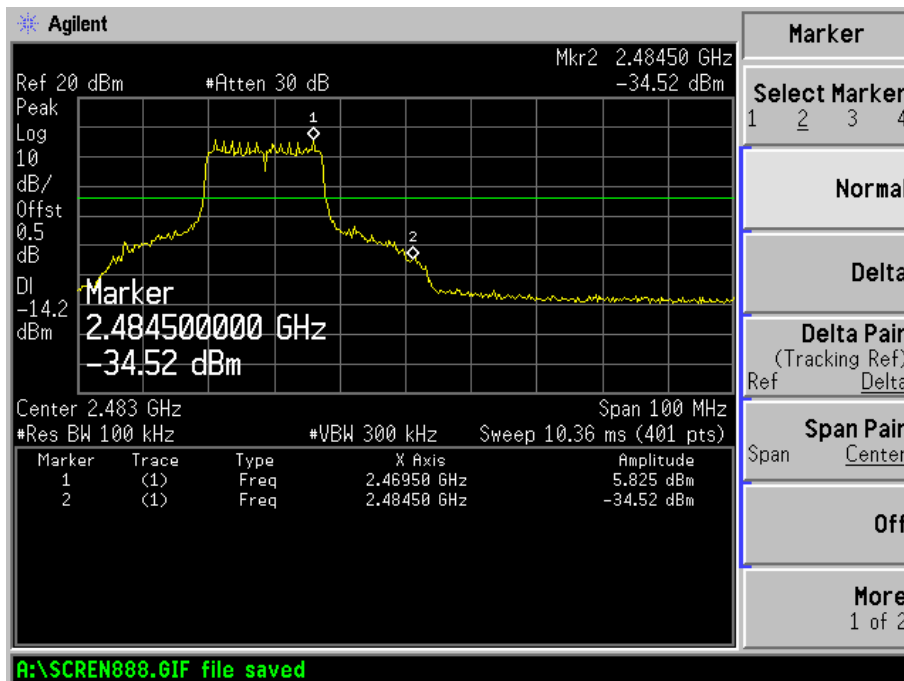
802.11g spurious emission



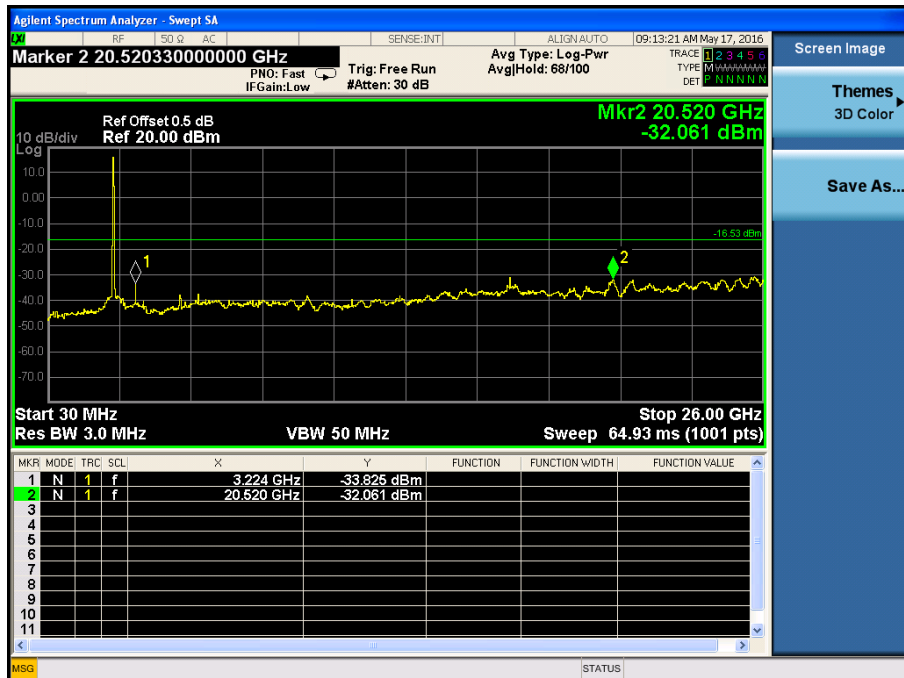
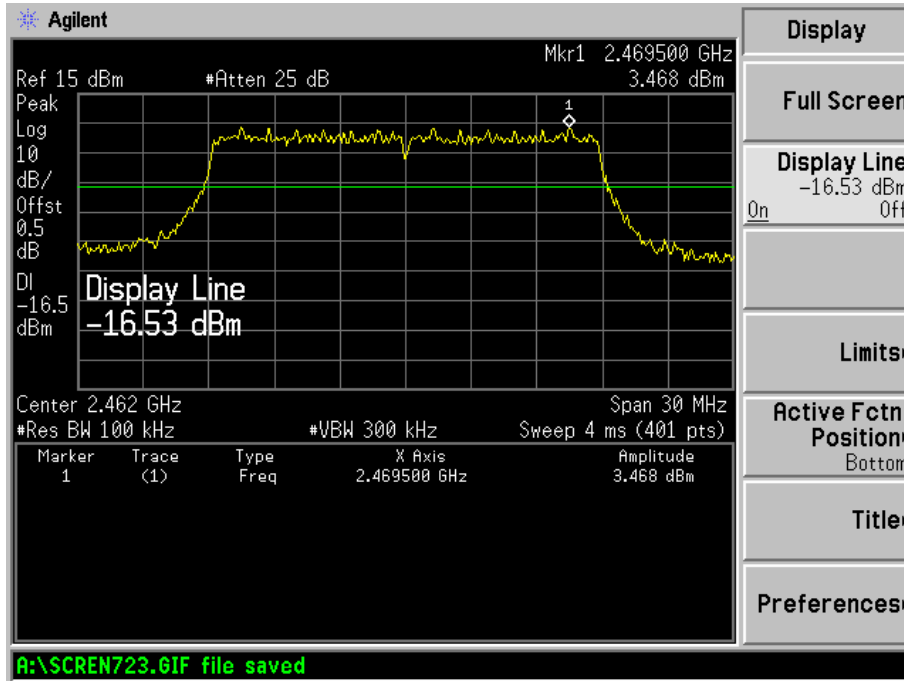
802.11n-HT20: Band Edge, Left Side



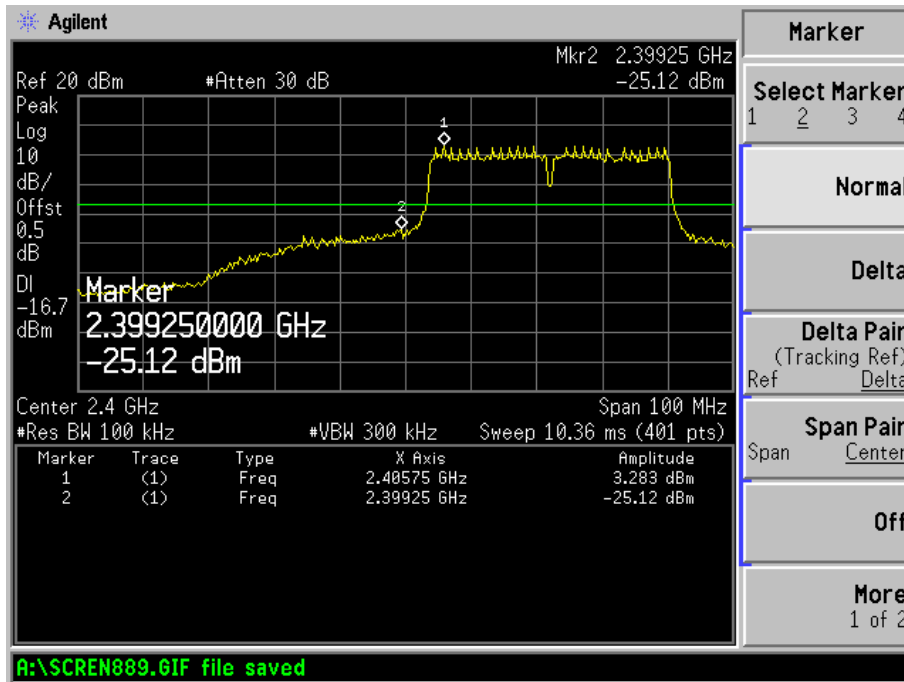
802.11n-HT20: Band Edge, Right Side



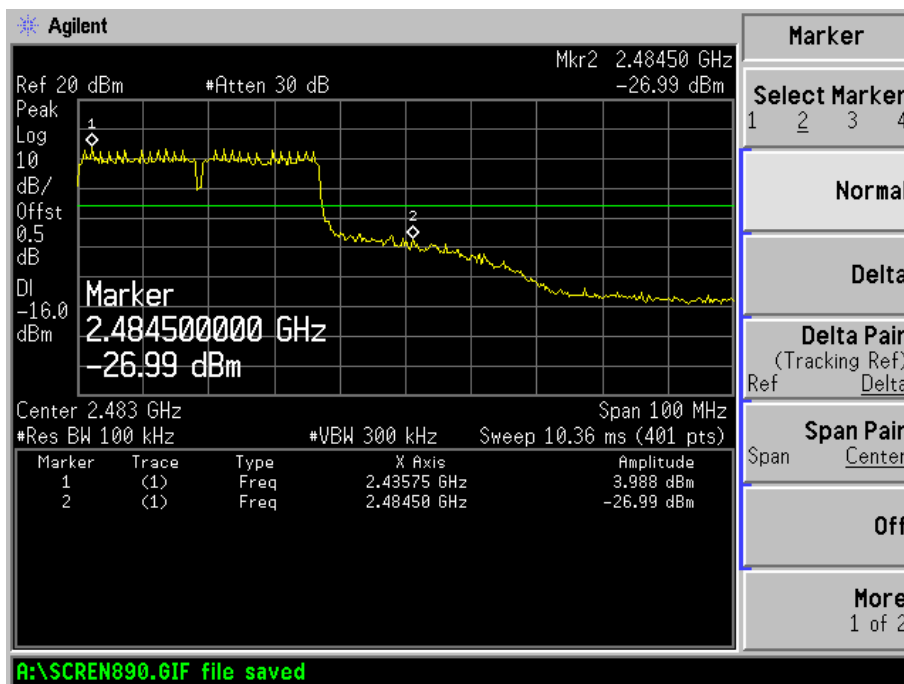
802.11n-HT20 spurious emission



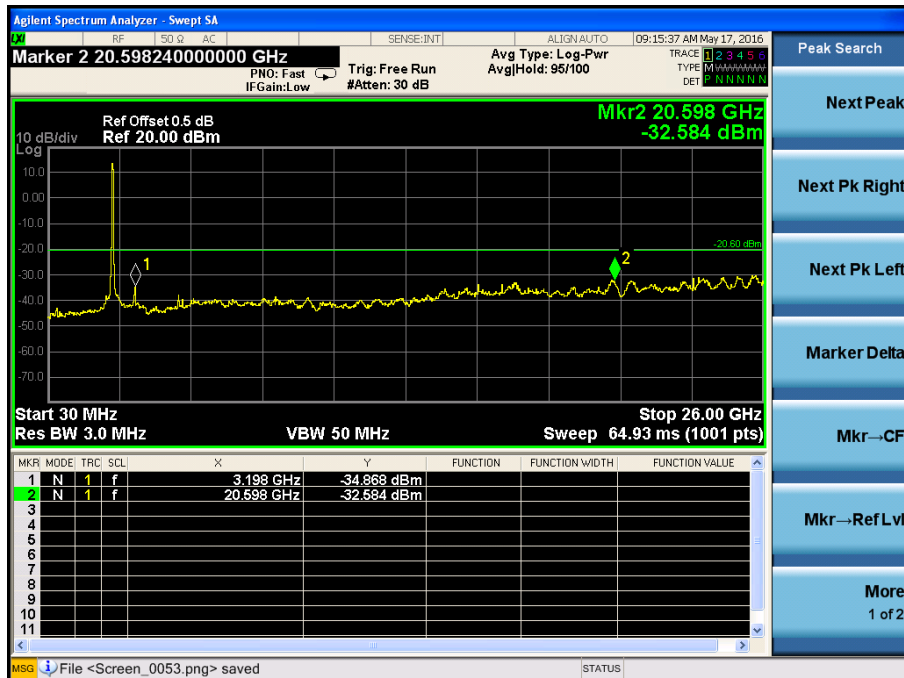
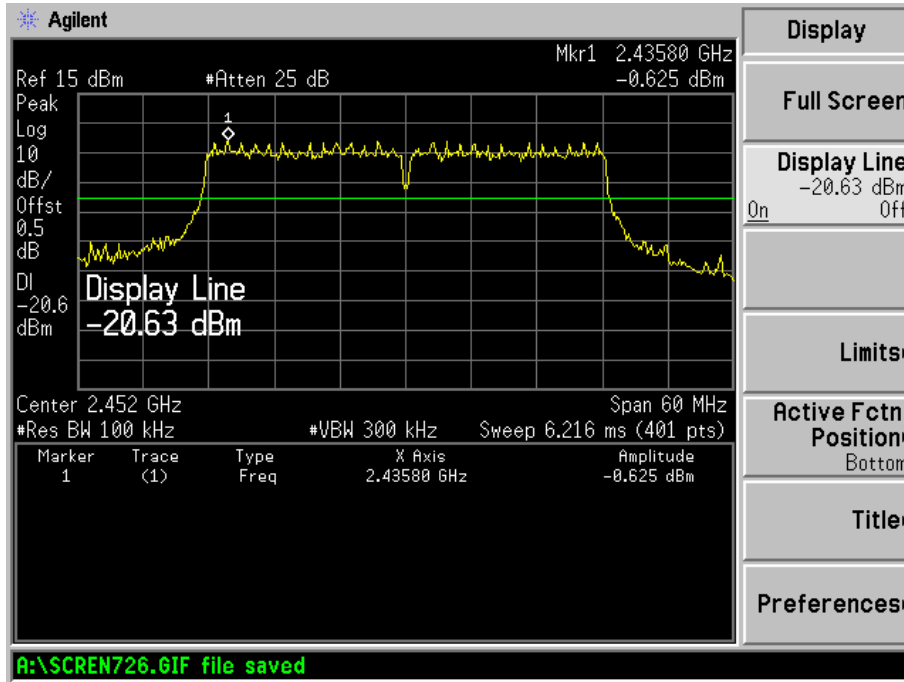
802.11n-HT40: Band Edge, Left Side



802.11n-HT40: Band Edge, Right Side



802.11n-HT40 spurious emission



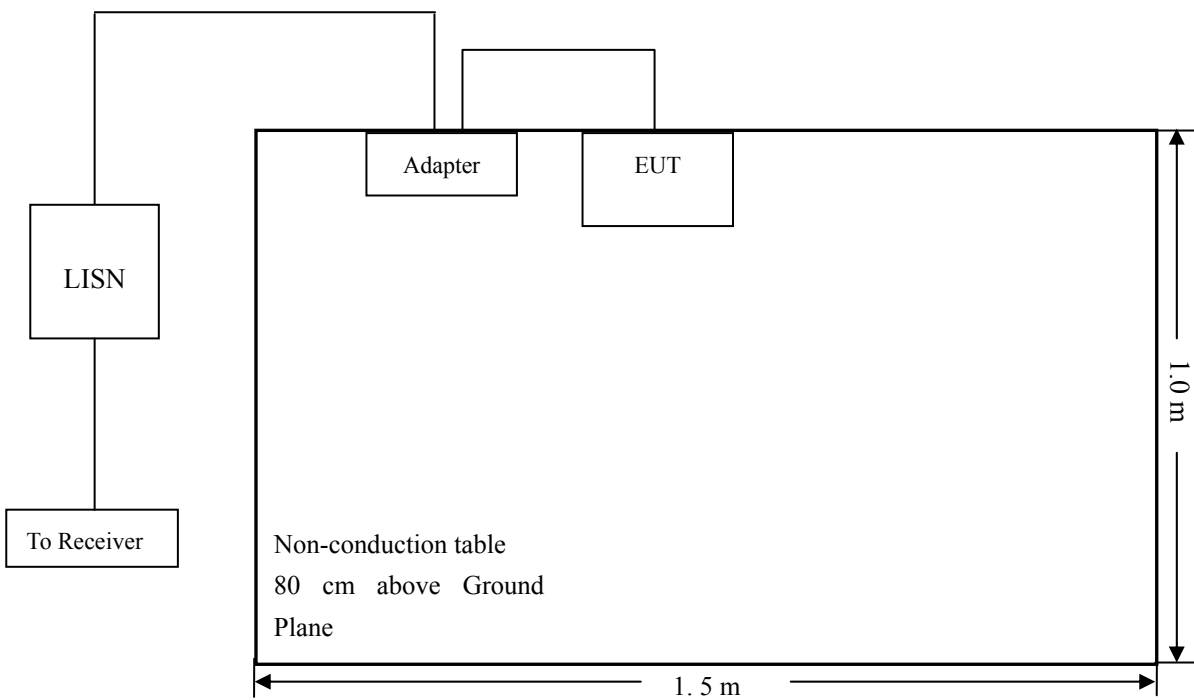
10. Conducted Emissions

10.1 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

10.2 Basic Test Setup Block Diagram



10.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

10.4 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency 150 kHz
Stop Frequency..... 30 MHz
Sweep Speed Auto
IF Bandwidth..... 10 kHz
Quasi-Peak Adapter Bandwidth 9 kHz
Quasi-Peak Adapter Mode Normal

10.5 Summary of Test Results/Plots

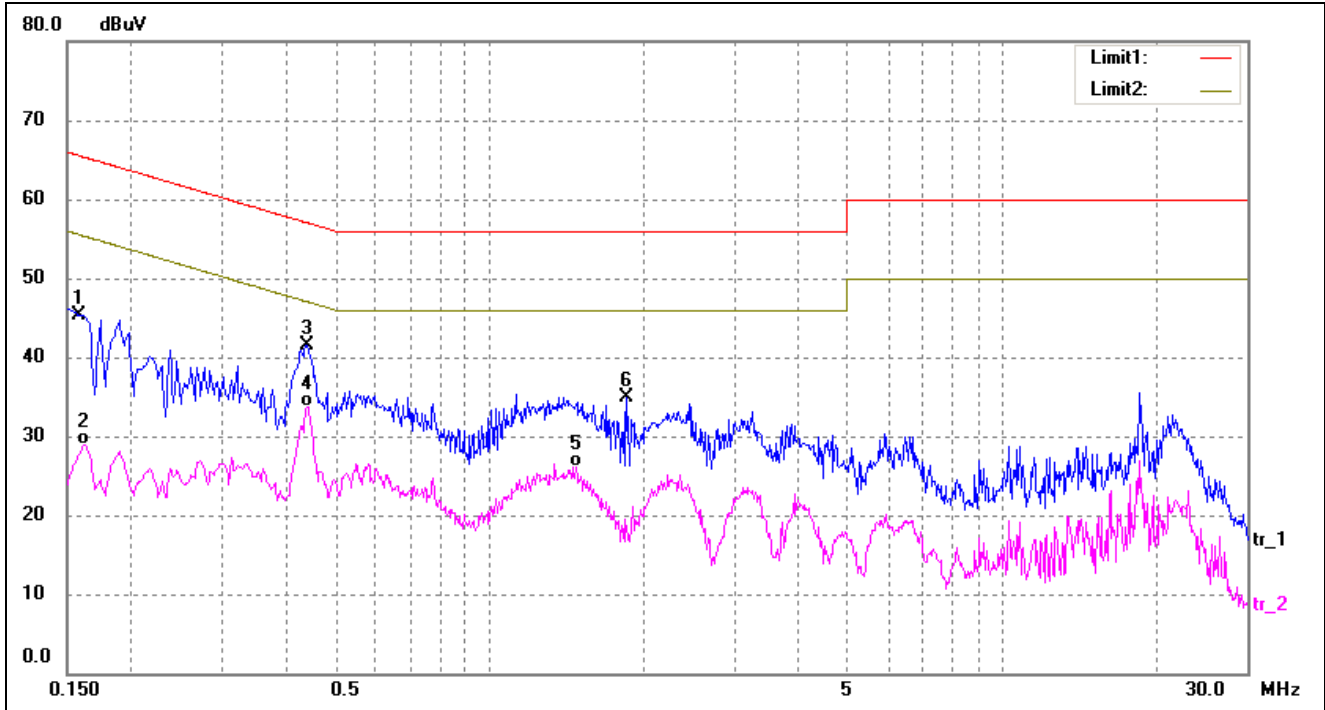
According to the data in section 10.6, the EUT complied with the FCC Part 15.207 Conducted margin for this device, with the *worst* margin reading of:

-13.30 dB at 0.4420 MHz in the Neutral mode, **AVG** detector, **0.15-30MHz**

10.6 Conducted Emissions Test Data

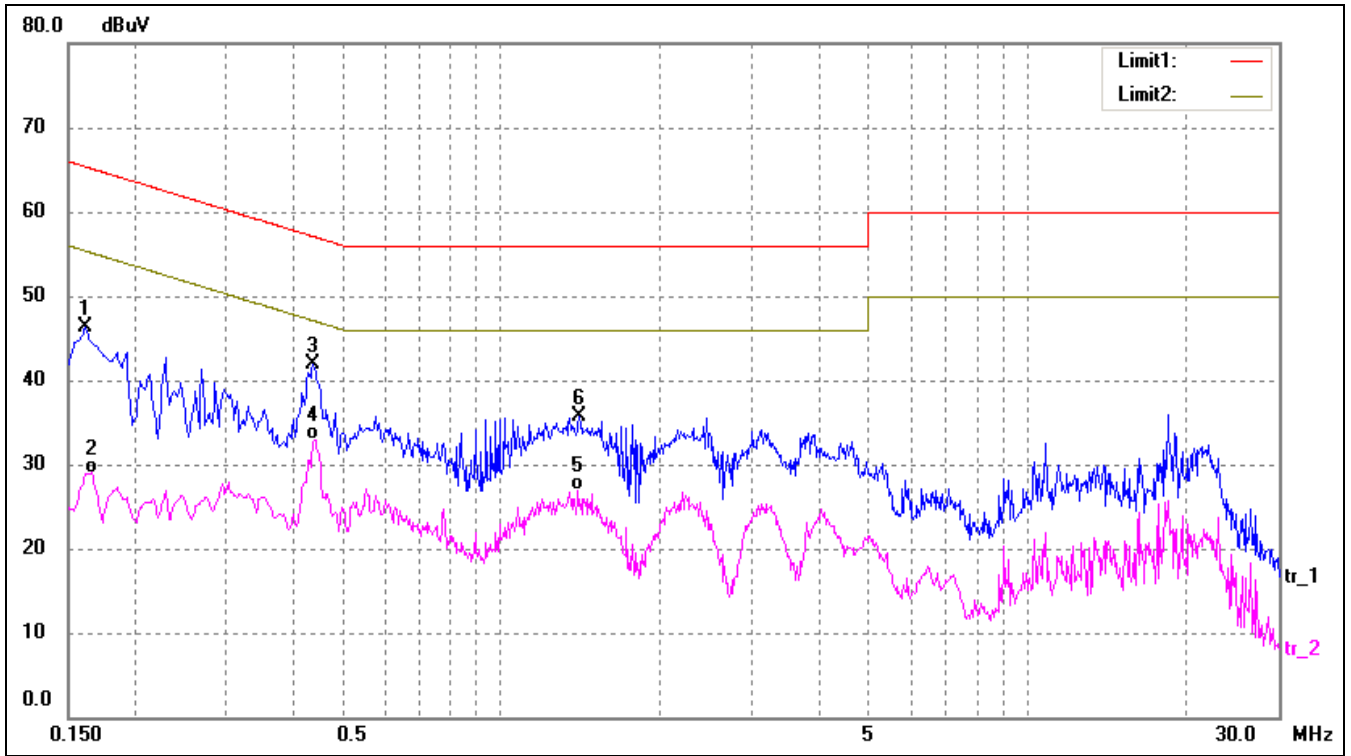
Plot of Conducted Emissions Test Data

EUT: Home Gateway
 Tested Model: AirMaster 4000M
 Operating Condition: Transmitting(Wi-Fi)
 Comment: DC24V/1.0A
 Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1582	35.84	9.50	45.34	65.56	-20.22	peak
2	0.1620	19.50	9.50	29.00	55.36	-26.36	AVG
3	0.4420	32.03	9.53	41.56	57.02	-15.46	peak
4*	0.4420	24.19	9.53	33.72	47.02	-13.30	AVG
5	1.4780	16.39	9.75	26.14	46.00	-19.86	AVG
6	1.8540	25.08	9.80	34.88	56.00	-21.12	peak

Test Specification: Live



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1620	36.71	9.50	46.21	65.36	-19.15	peak
2	0.1660	19.50	9.50	29.00	55.16	-26.16	AVG
3	0.4380	32.34	9.52	41.86	57.10	-15.24	peak
4*	0.4420	23.40	9.53	32.93	47.02	-14.09	AVG
5	1.3980	17.19	9.74	26.93	46.00	-19.07	AVG
6	1.4060	25.90	9.74	35.64	56.00	-20.36	peak

***** END OF REPORT *****