

FCC Part 15C Measurement and Test Report

For

International Products Sourcing Group

4119 Leap Road, Hilliard OH, 43026

FCC ID: 2AOBMWBTW110

FCC Rule(s):	<u>FCC Part 15C</u>
Product Description:	<u>Tablet PC</u>
Tested Model:	<u>11"TW110</u>
Report No.:	<u>STR17128083I-2</u>
Sample Receipt Date:	<u>2017-12-07</u>
Tested Date:	<u>2017-12-08 to 2017-12-19</u>
Issued Date:	<u>2017-12-19</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: International Products Sourcing Group
Address of applicant: 4119 Leap Road, Hilliard OH, 43026

Manufacturer: Shenzhen Emdoor Digital Technology Co.,Ltd.
Address of manufacturer: H.Q.:6/F JinFuLai Building,49-1 Dabao Road,
Bao An District, Shenzhen

General Description of EUT	
Product Name:	Tablet PC
Trade Name:	WinBook
Model No.:	11"TW110
Adding Model:	/
Rated Voltage:	DC 3.8V by battery
Battery capacity:	10000mAh
Power Adapter Model:	Model: JK050300-S04US Input: AC100-240V, 50/60Hz, 0.5A; Output: DC 5V/ 3000mA
Note: The test data is gathered from a production sample provided by the manufacturer.	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 11b/g/n(HT20) 2422-2452MHz for 11n(HT40)
RF Output Power:	Antenna A : 13.52dBm(Conducted) Antenna B : 13.00dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 300Mbps
Quantity of Channels:	11/7
Channel Separation:	5MHz
Type of Antenna:	Integral Antenna
Antenna Gain:	Antenna A: 2.0dBi Antenna B: 2.0dBi
Lowest Internal Frequency	32.768kHz

1.2 Test Standards

The following report is prepared on behalf of the International Products Sourcing Group 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 v04 for digital transmission systems shall be performed also.

1.4 Test Facility

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

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.

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
Note: All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report.		

Accessories Equipment List and Details			
Description	Manufacturer	Model No.	Serial Number
/	/	/	/
Accessories Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With Core/Without Core
/	/	/	/
EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With Core/Without Core
Adapter Cable	1.5	Shielded	Without Core

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

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2017-06-12	2018-06-11
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2017-06-12	2018-06-11
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2017-06-12	2018-06-11
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2017-06-12	2018-06-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2017-06-12	2018-06-11
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2018-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2018-06-07
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2017-08-01	2017-03-09
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2018-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2017-06-12	2018-06-11
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2017-06-12	2018-06-11
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2017-06-12	2018-06-11
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2017-08-15	2018-08-14
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2017-08-15	2018-08-14
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2017-06-12	2018-06-11
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2017-03-09	2018-03-08

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 antenna, and they can't transmit simultaneously, 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 v04, 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

Antenna A

Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
802.11b	2412	-11.47	8
	2437	-11.29	8
	2462	-11.36	8
802.11g	2412	-13.63	8
	2437	-11.35	8
	2462	-15.22	8
802.11n HT20	2412	-13.17	8
	2437	-10.55	8
	2462	-13.78	8
802.11n HT40	2422	-15.71	8
	2437	-13.24	8
	2452	-17.78	8

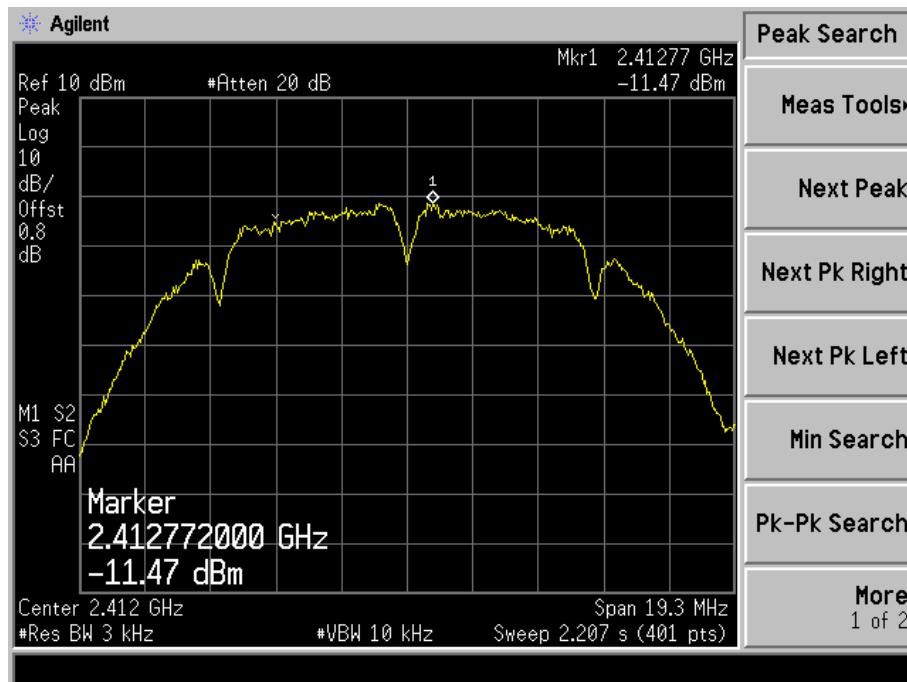
Antenna B

Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
802.11b	2412	-10.99	8
	2437	-11.34	8
	2462	-11.06	8
802.11g	2412	-13.56	8
	2437	-11.94	8
	2462	-15.05	8
802.11n HT20	2412	-12.51	8
	2437	-11.8	8
	2462	-14.85	8
802.11n HT40	2422	-16.57	8
	2437	-14.87	8
	2452	-18.1	8

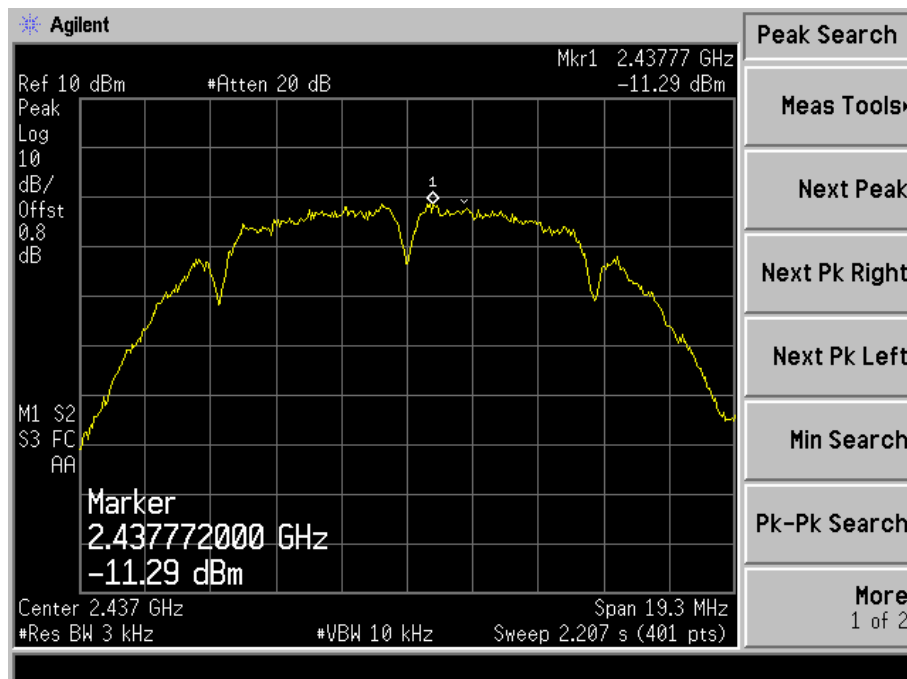
Please refer to the following test plots:

Antenna A

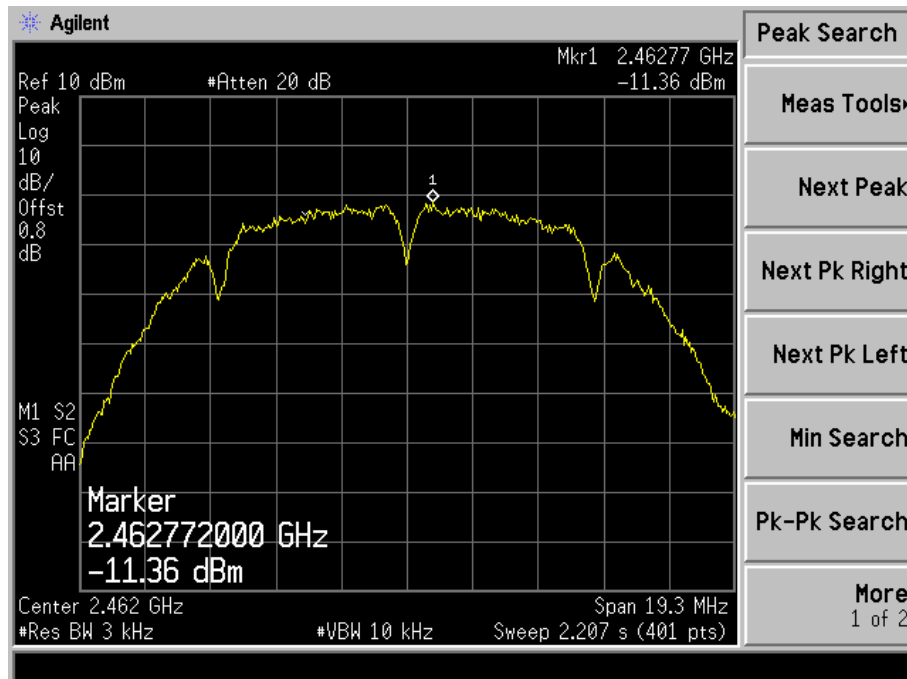
802.11b-Low Channel



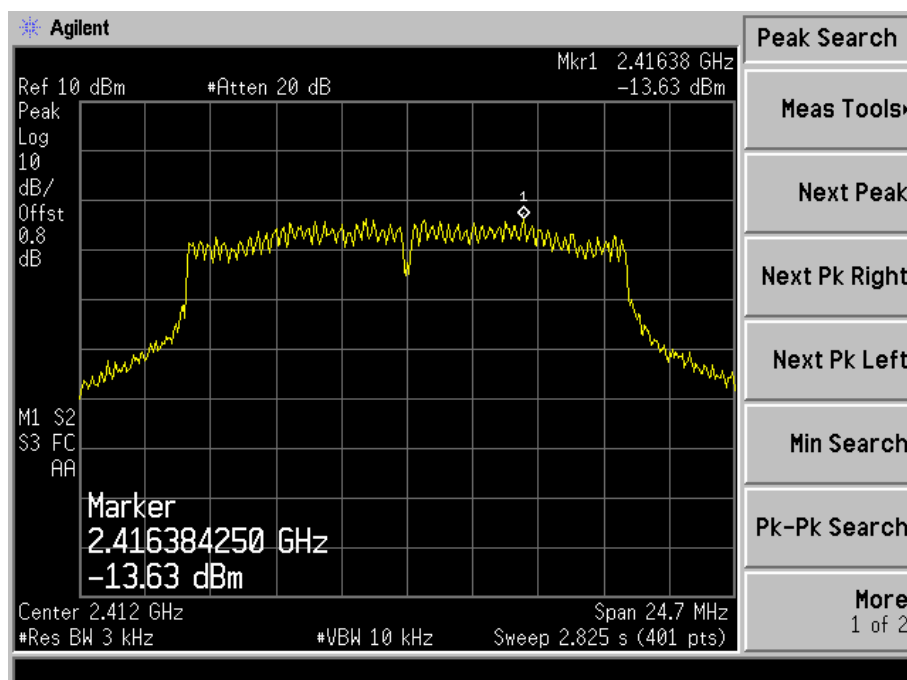
802.11b-Middle Channel



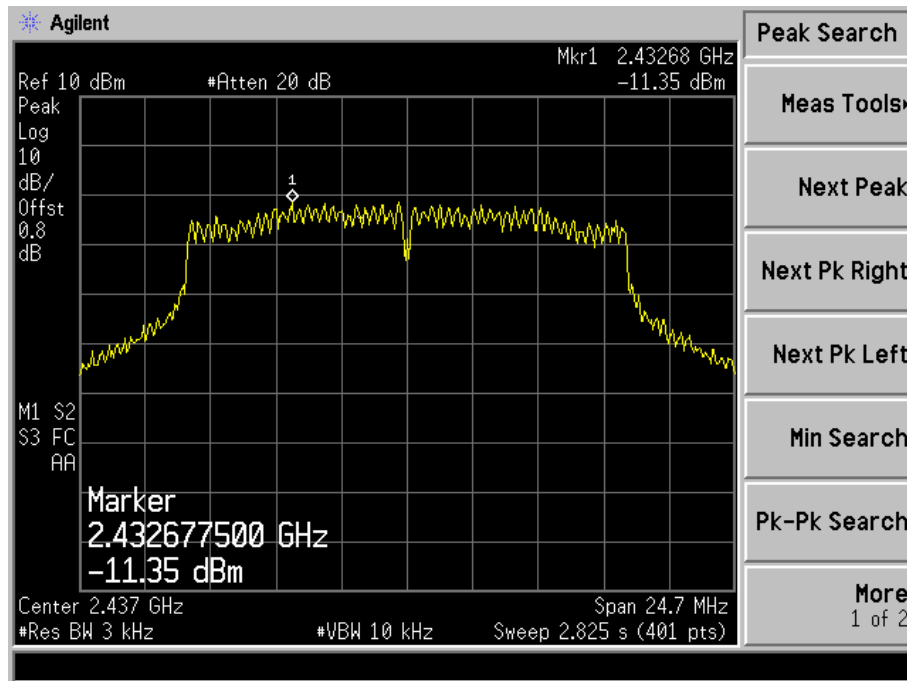
802.11b-High Channel



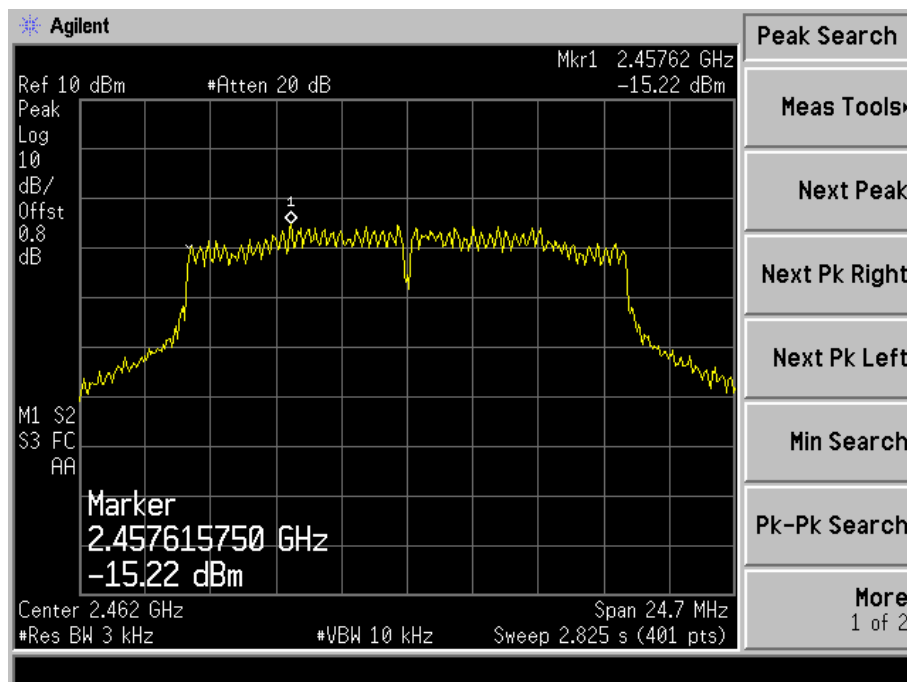
802.11g-Low Channel



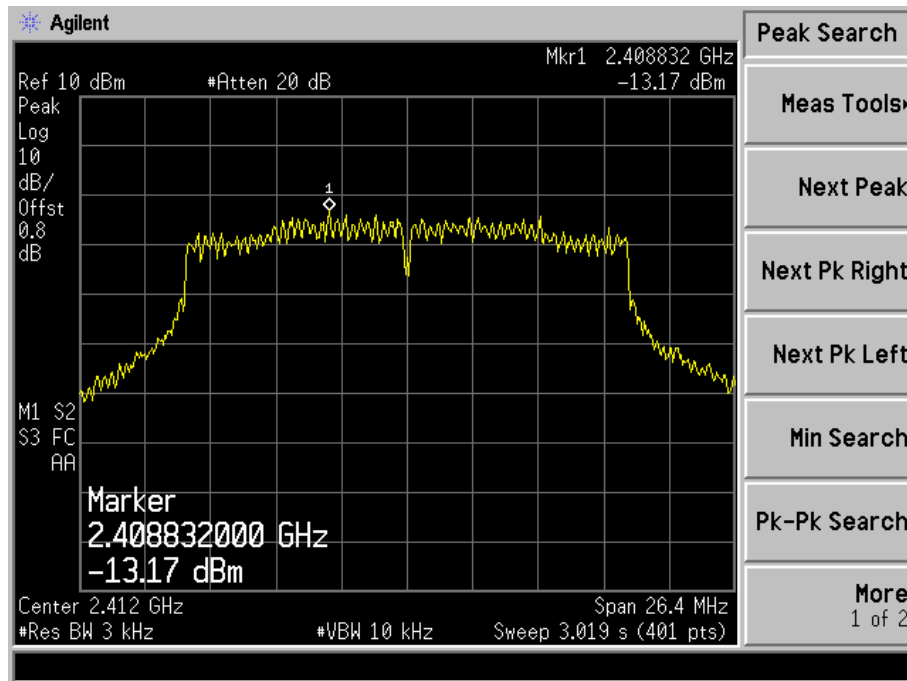
802.11g-Middle Channel



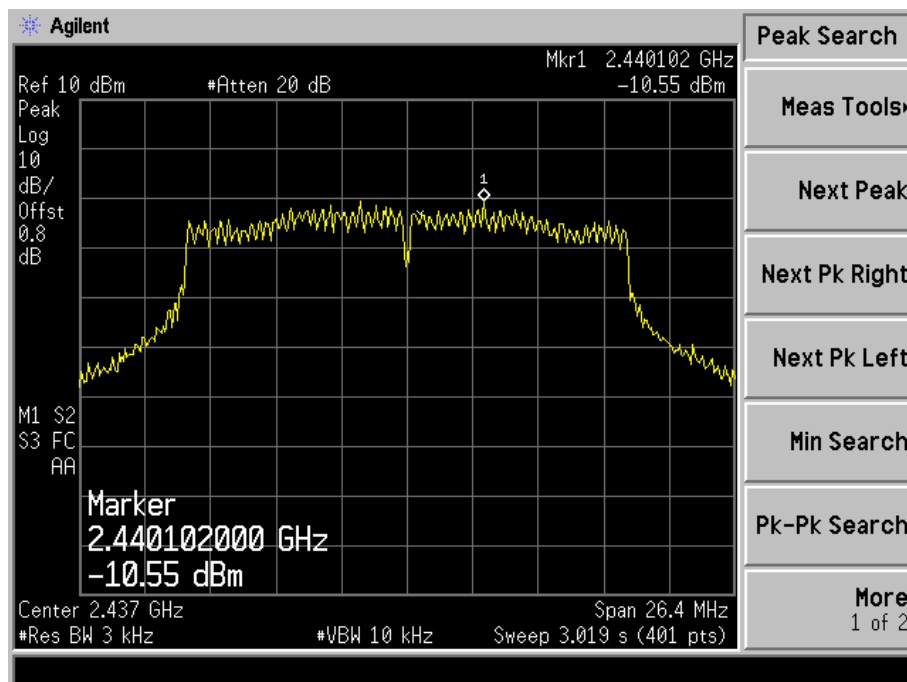
802.11g-High Channel



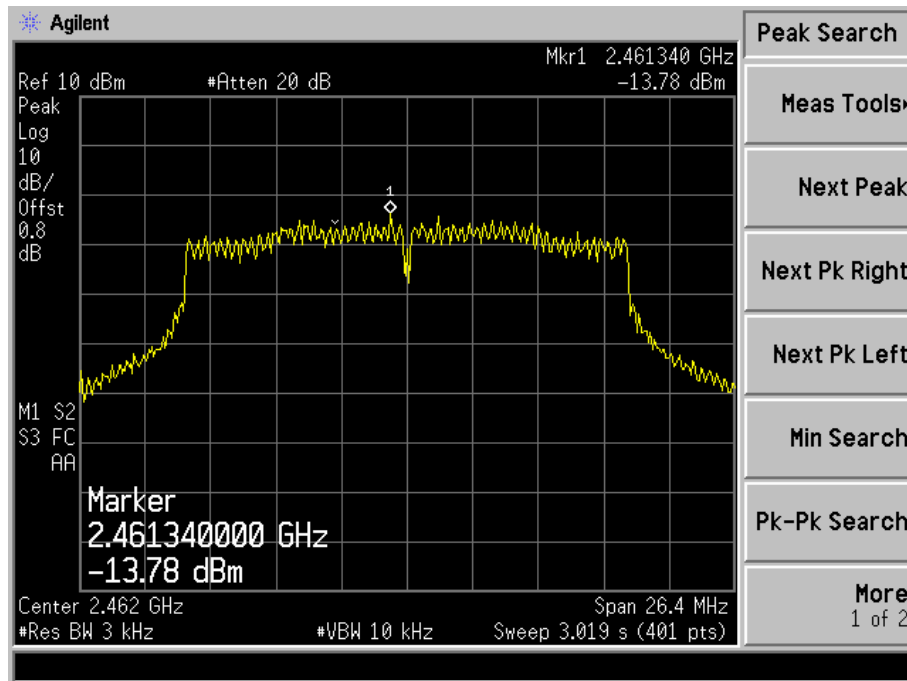
802.11n-HT20-Low Channel



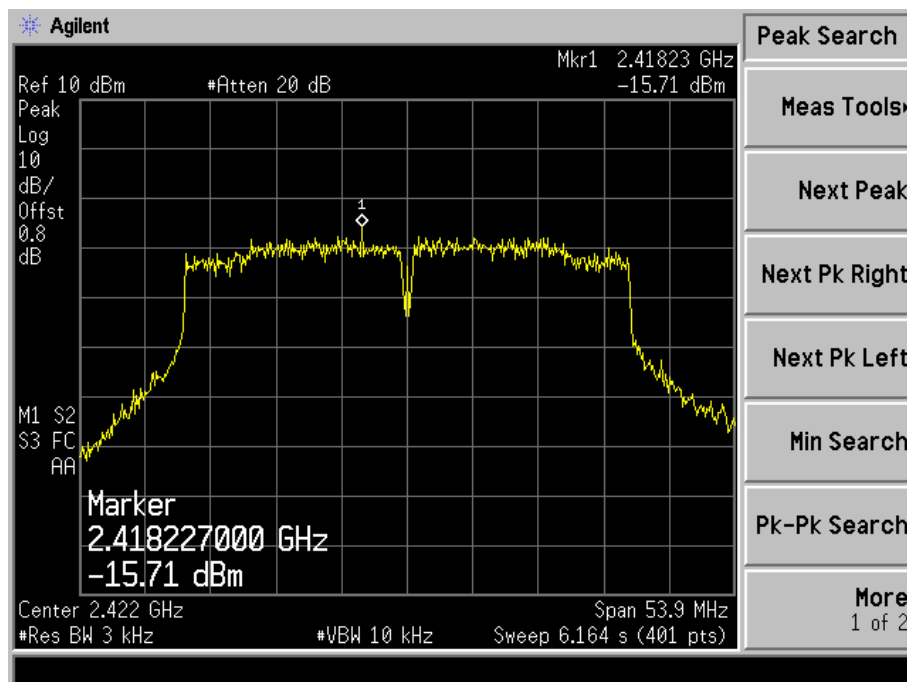
802.11n-HT20-Middle Channel



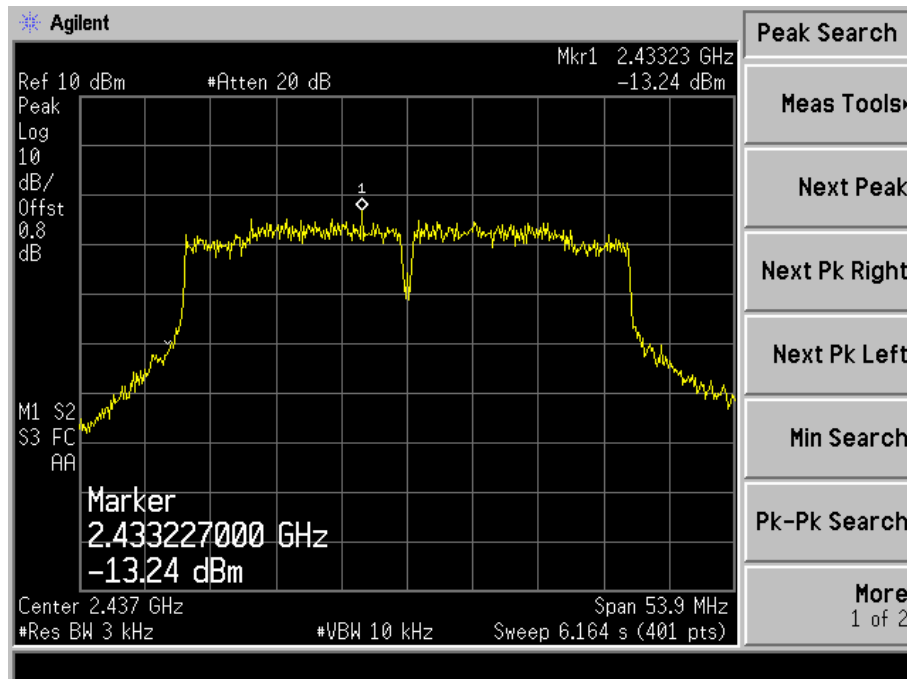
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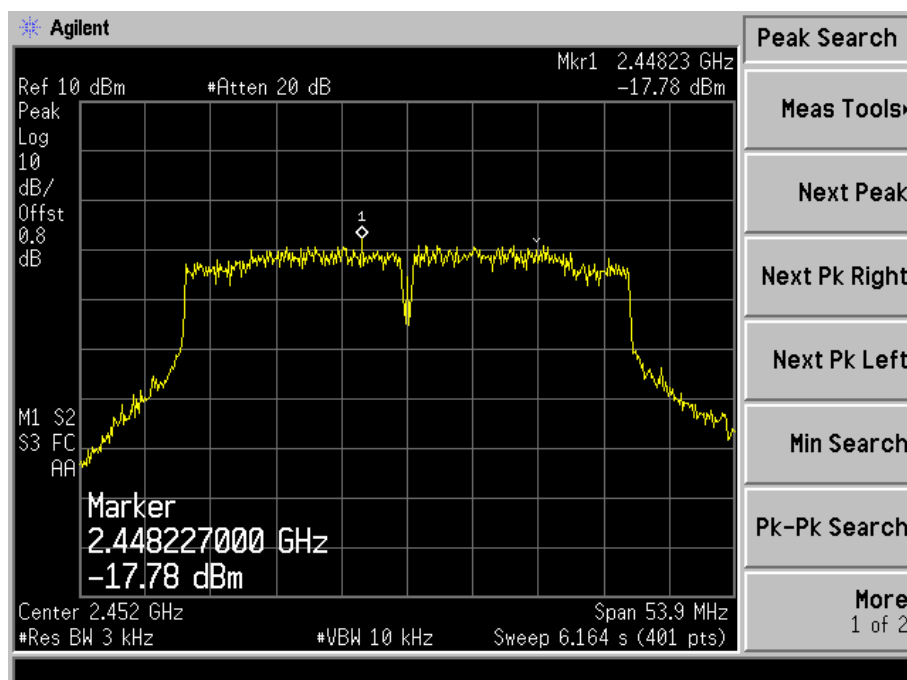
802.11n-HT40-Low Channel



802.11n-HT40-Middle Channel

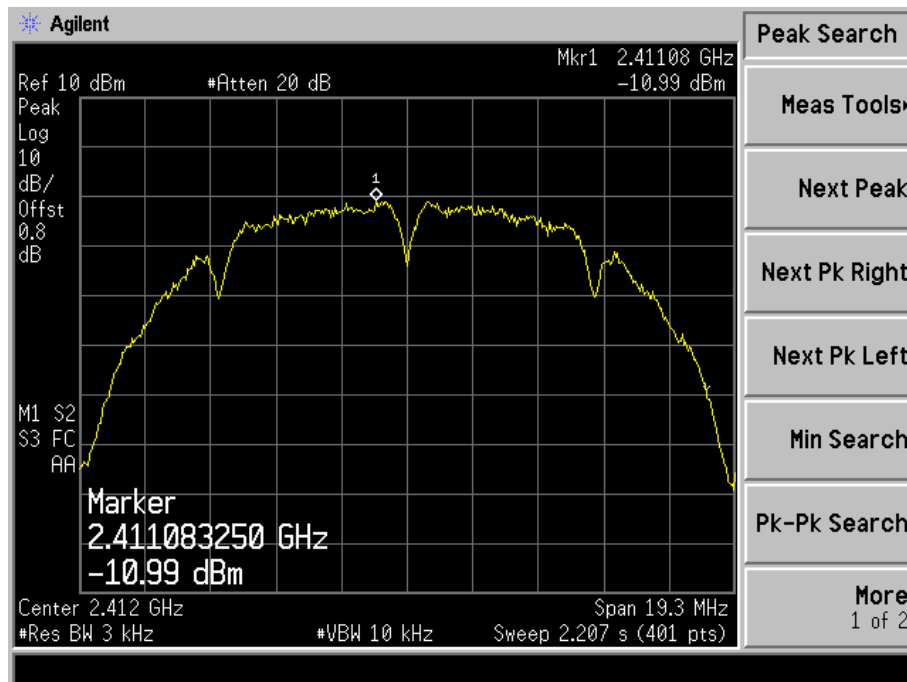


802.11n-HT40-High Channel

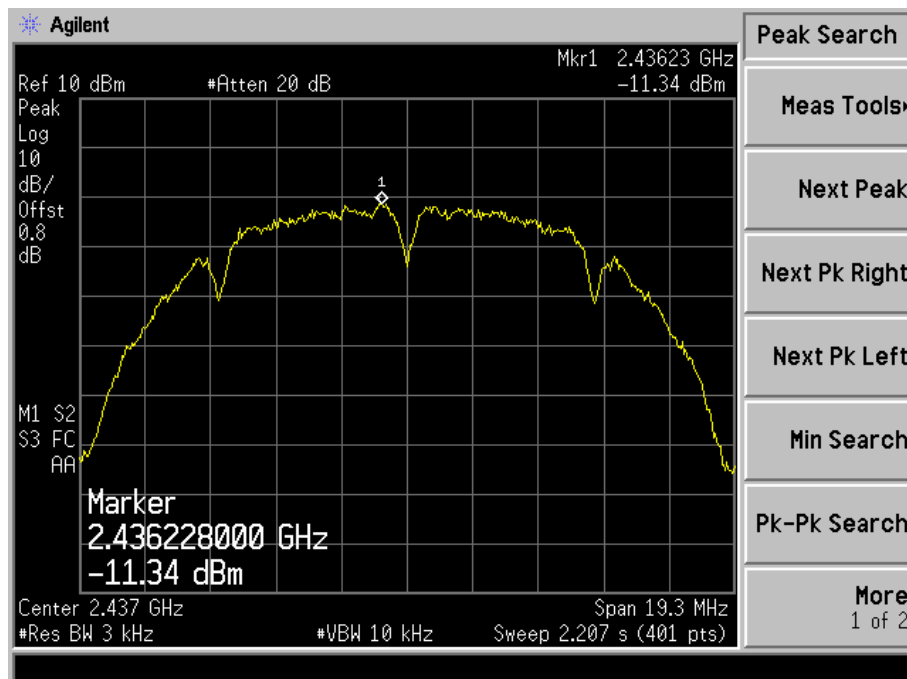


Antenna B

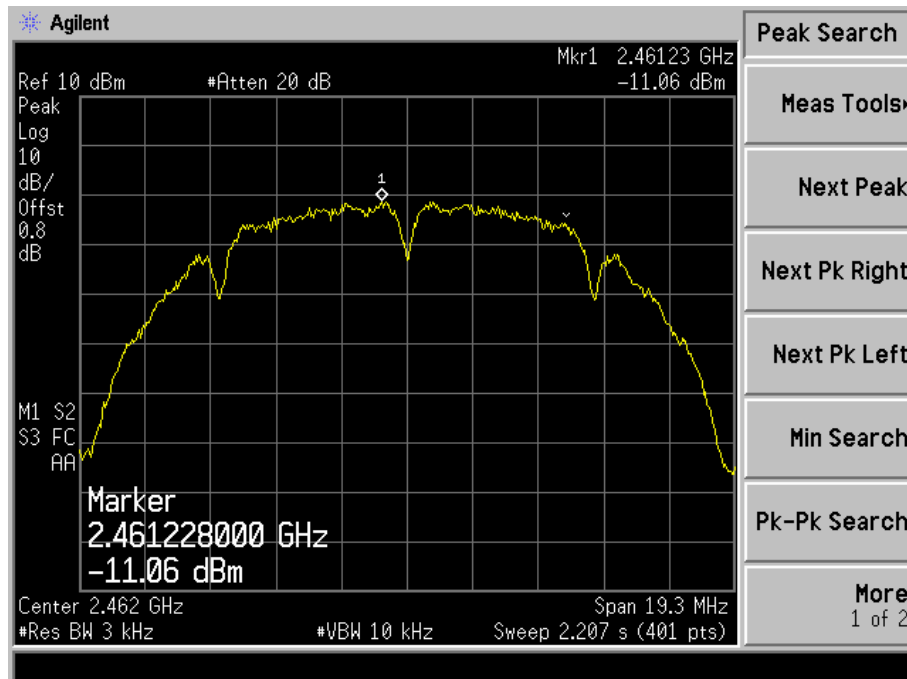
802.11b-Low Channel



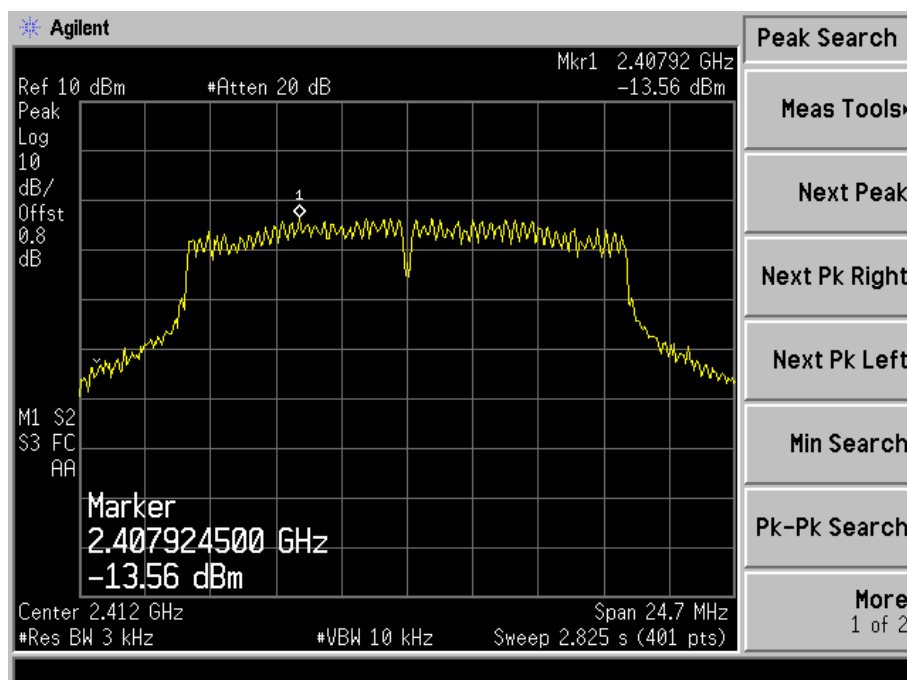
802.11b-Middle Channel



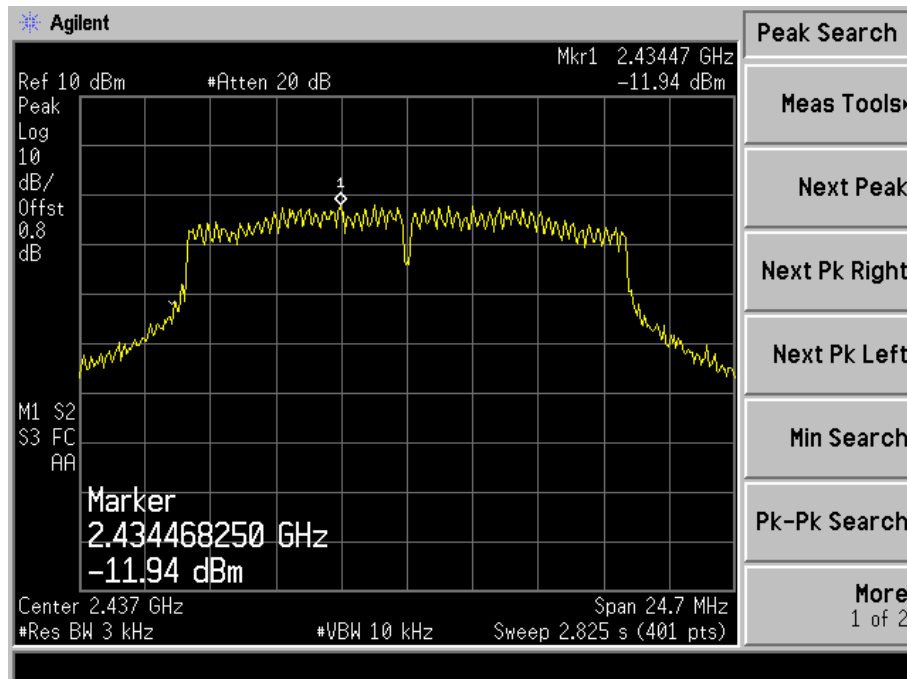
802.11b-High Channel



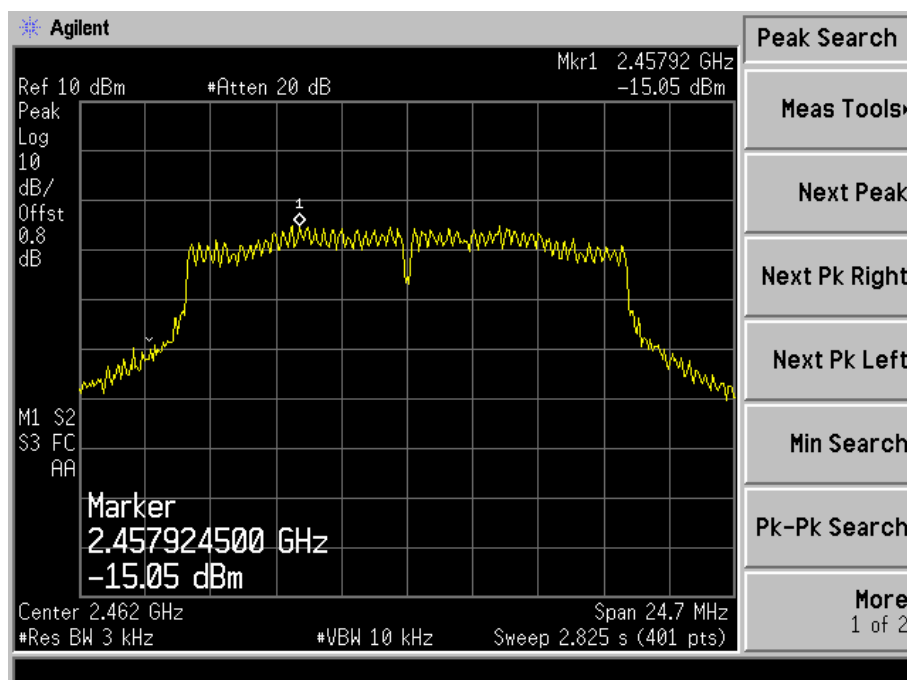
802.11g-Low Channel



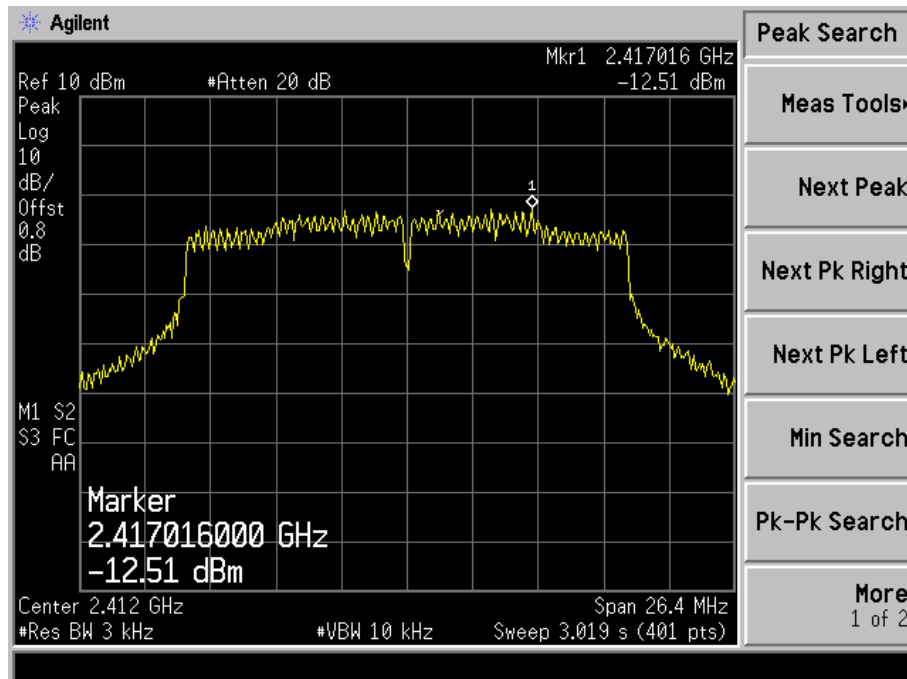
802.11g-Middle Channel



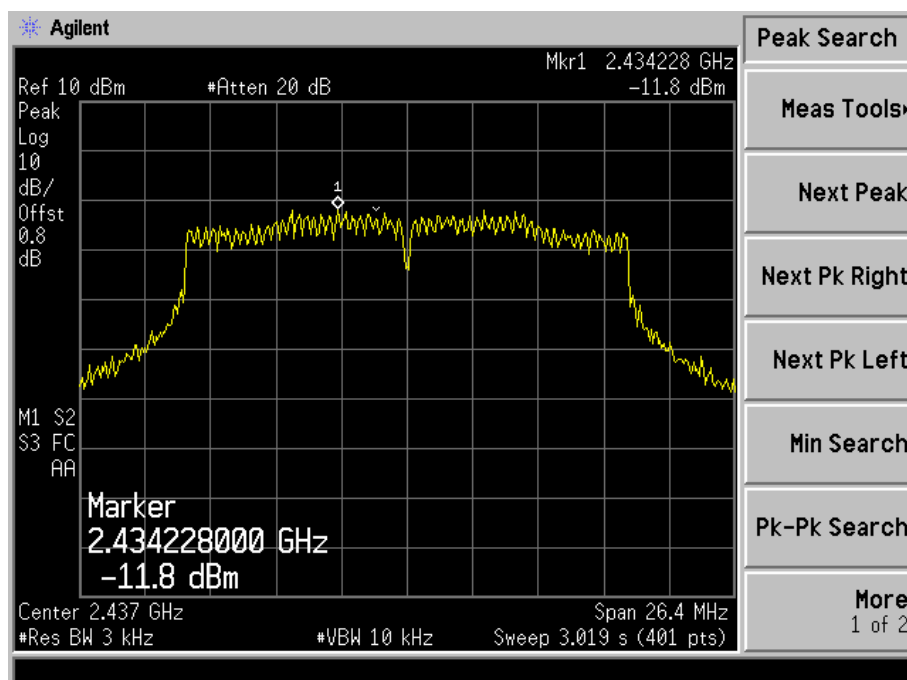
802.11g-High Channel



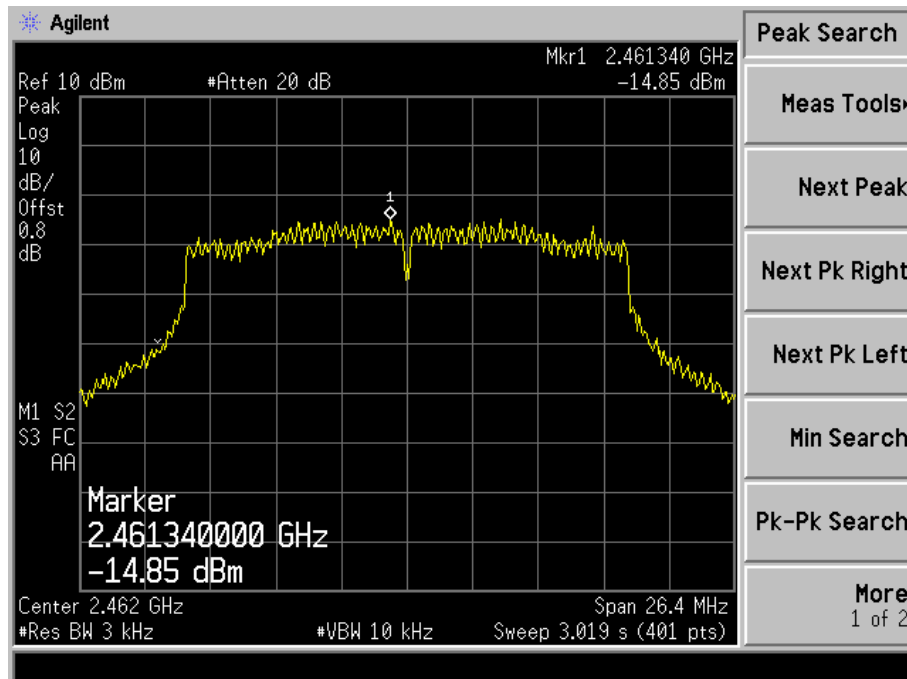
802.11n-HT20-Low Channel



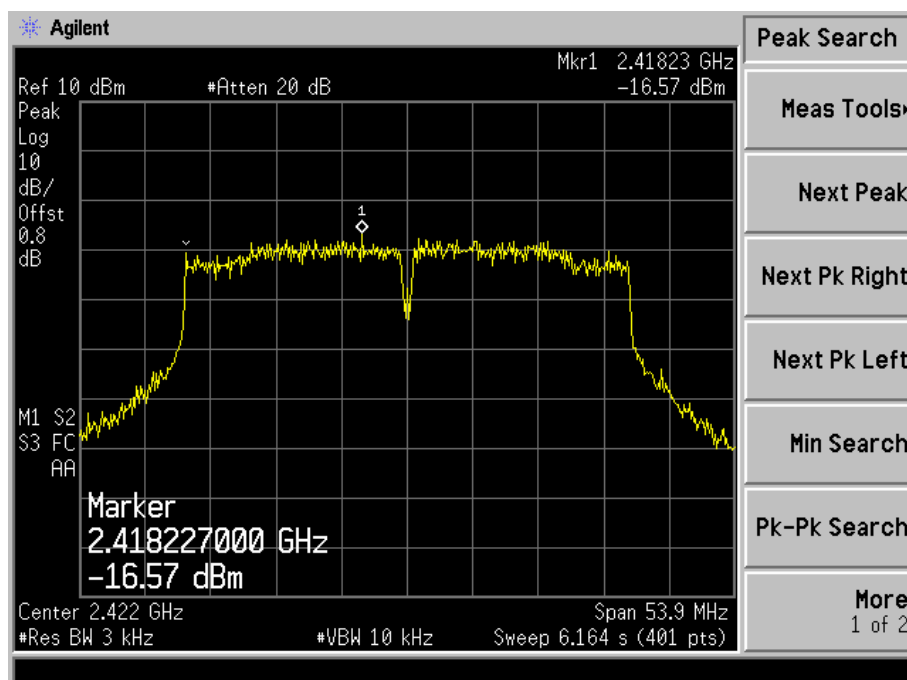
802.11n-HT20-Middle Channel



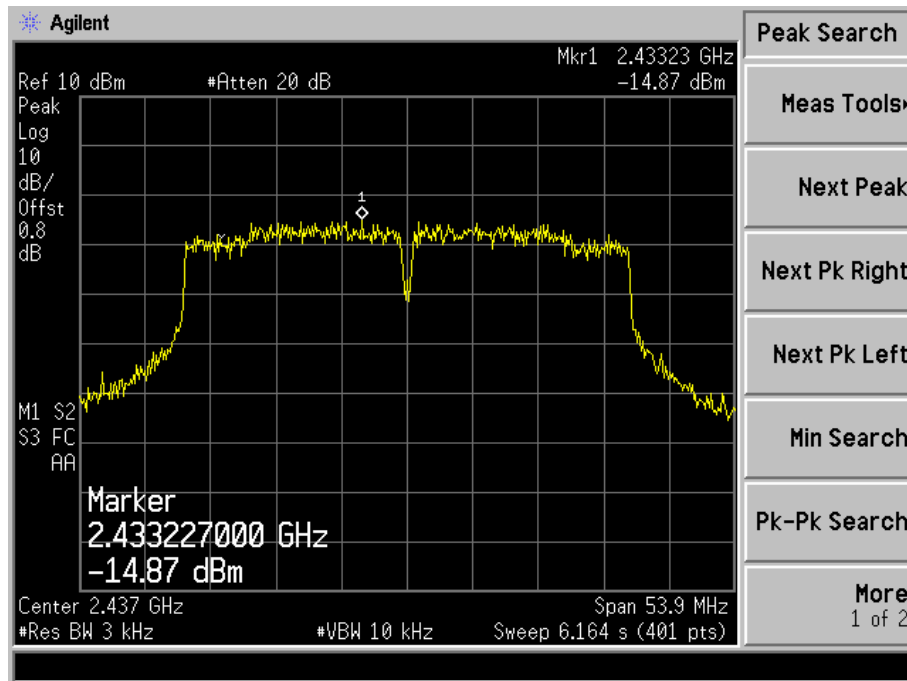
802.11n-HT20-High Channel



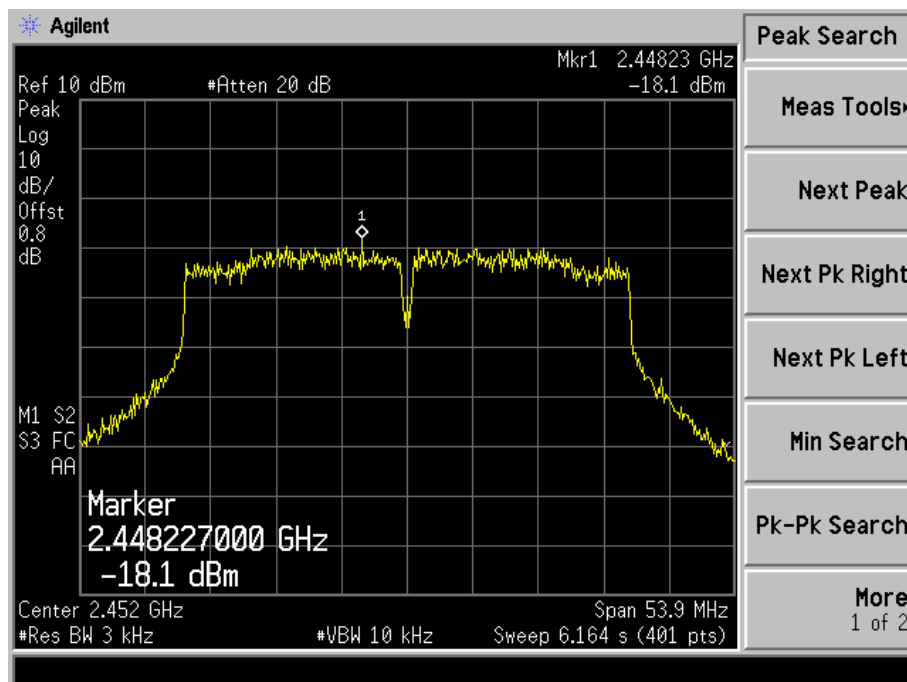
802.11n-HT40-Low Channel



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

Antenna A

Test Mode	Test Channel MHz	6 dB Bandwidth MHz	99% Bandwidth MHz	Limit kHz
802.11b	2412	9.233	12.6343	≥500
	2437	9.216	12.6563	≥500
	2462	9.589	12.6084	≥500
802.11g	2412	16.299	16.3637	≥500
	2437	16.381	16.3463	≥500
	2462	15.704	16.3323	≥500
802.11n-HT20	2412	10.956	17.5621	≥500
	2437	14.903	17.5739	≥500
	2462	17.344	17.5634	≥500
802.11n-HT40	2422	35.264	35.8868	≥500
	2437	34.020	35.9028	≥500
	2452	35.401	35.9659	≥500

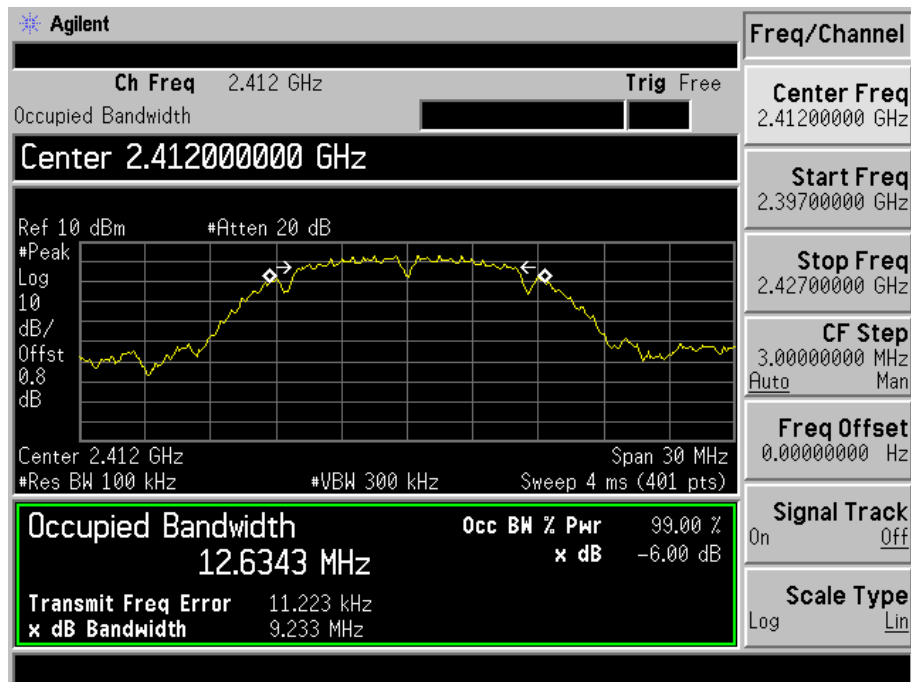
Antenna B

Test Mode	Test Channel MHz	6 dB Bandwidth MHz	99% Bandwidth MHz	Limit kHz
802.11b	2412	9.192	12.6405	≥500
	2437	9.169	12.6236	≥500
	2462	9.166	12.6173	≥500
802.11g	2412	12.963	16.3383	≥500
	2437	16.365	16.3423	≥500
	2462	16.182	16.3393	≥500
802.11n-HT20	2412	17.332	17.5783	≥500
	2437	10.989	17.5379	≥500
	2462	15.896	17.5417	≥500
802.11n-HT40	2422	34.822	35.8135	≥500
	2437	33.918	35.9331	≥500
	2452	31.475	35.8862	≥500

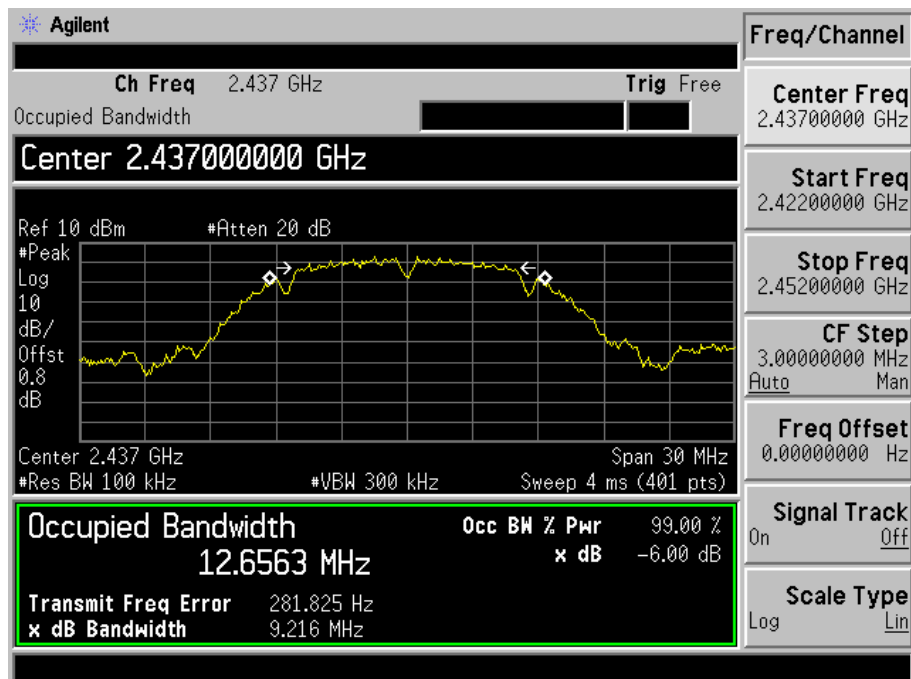
Please refer to the following test plots:

Antenna A

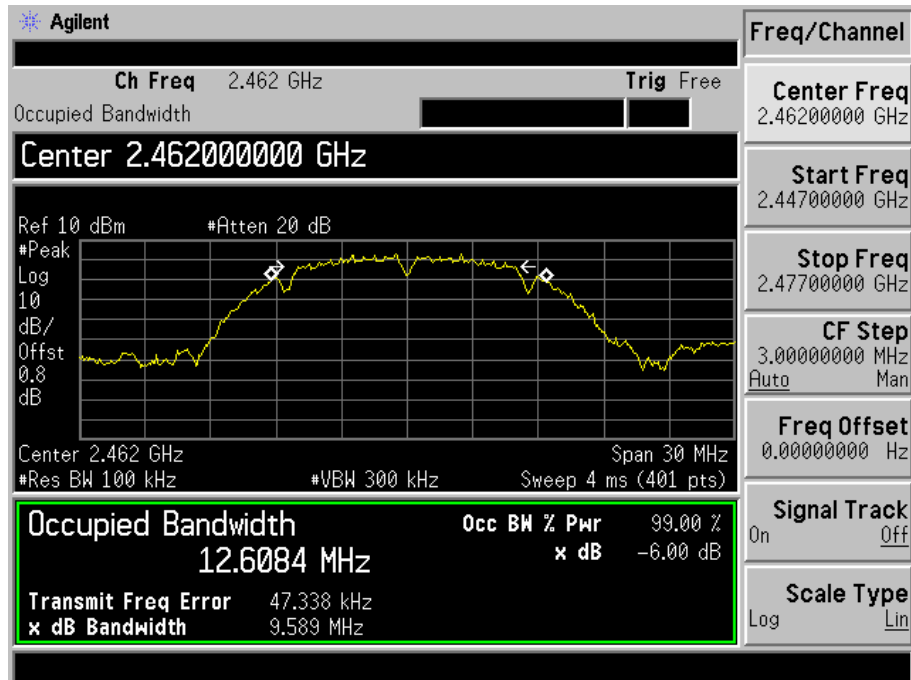
802.11b-Low Channel



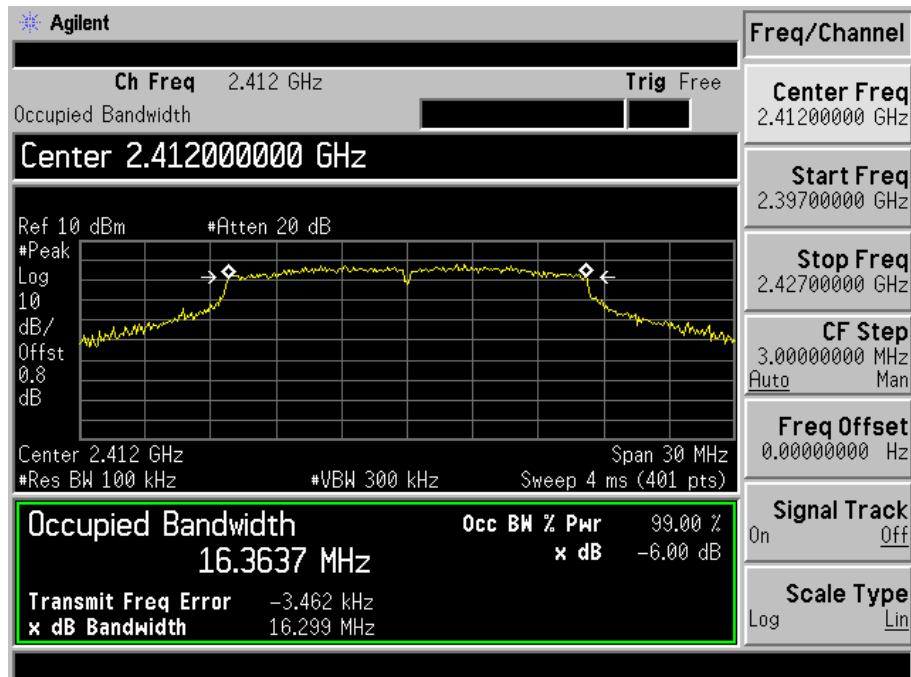
802.11b-Middle Channel



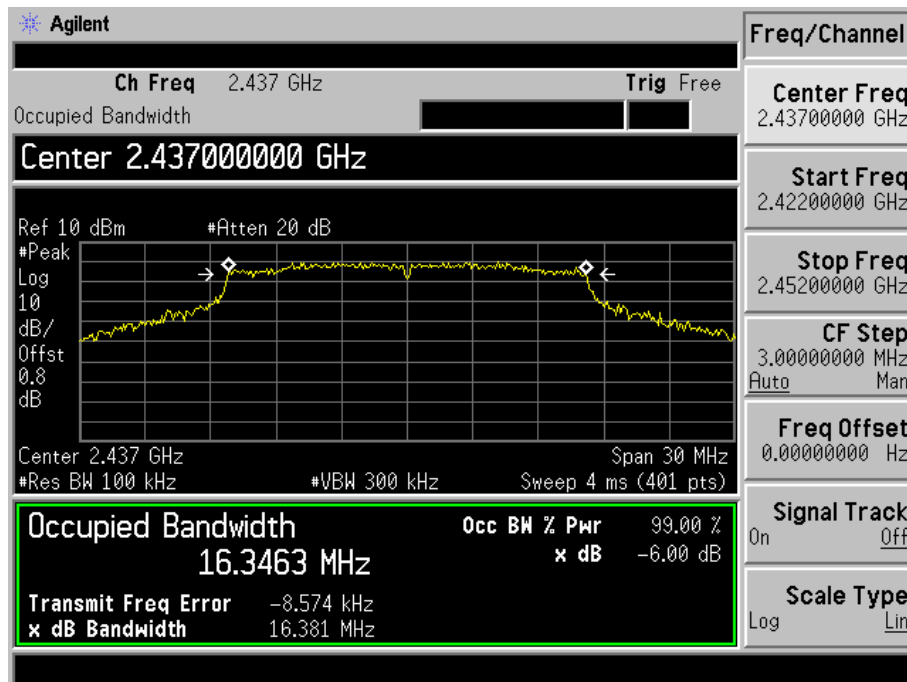
802.11b-High Channel



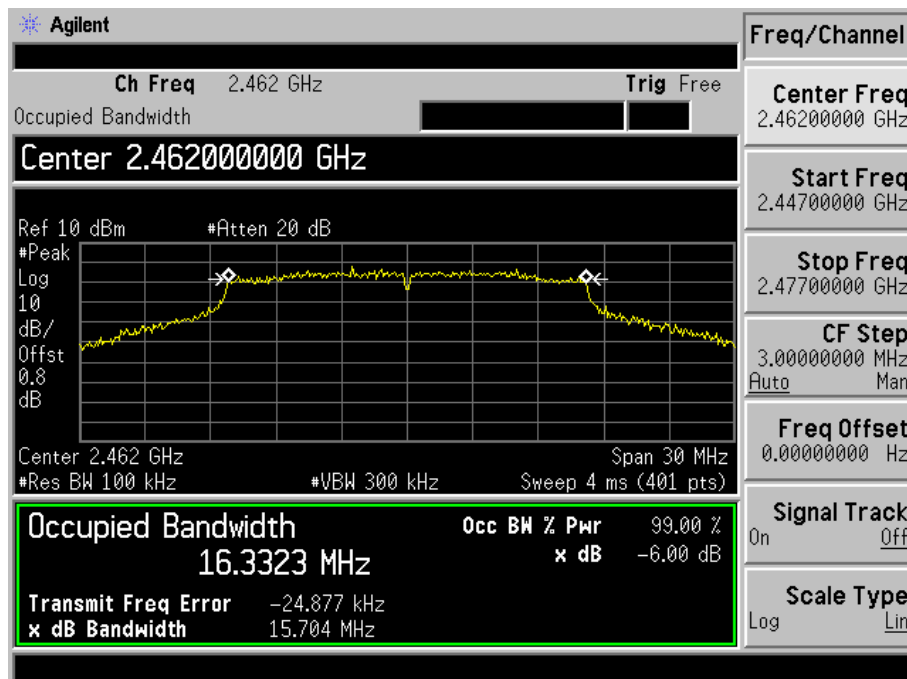
802.11g-Low Channel



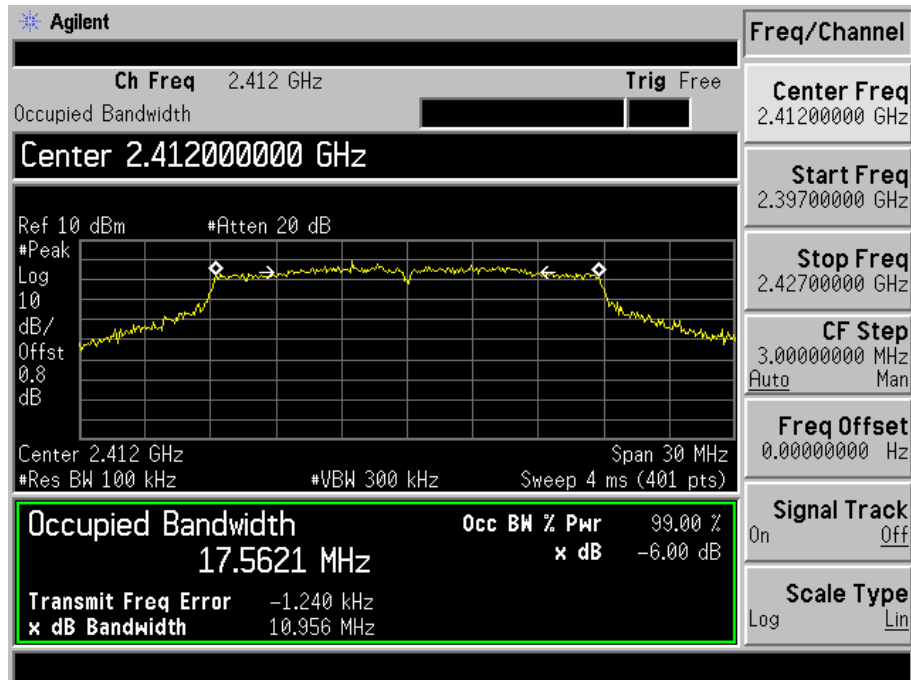
802.11g-Middle Channel



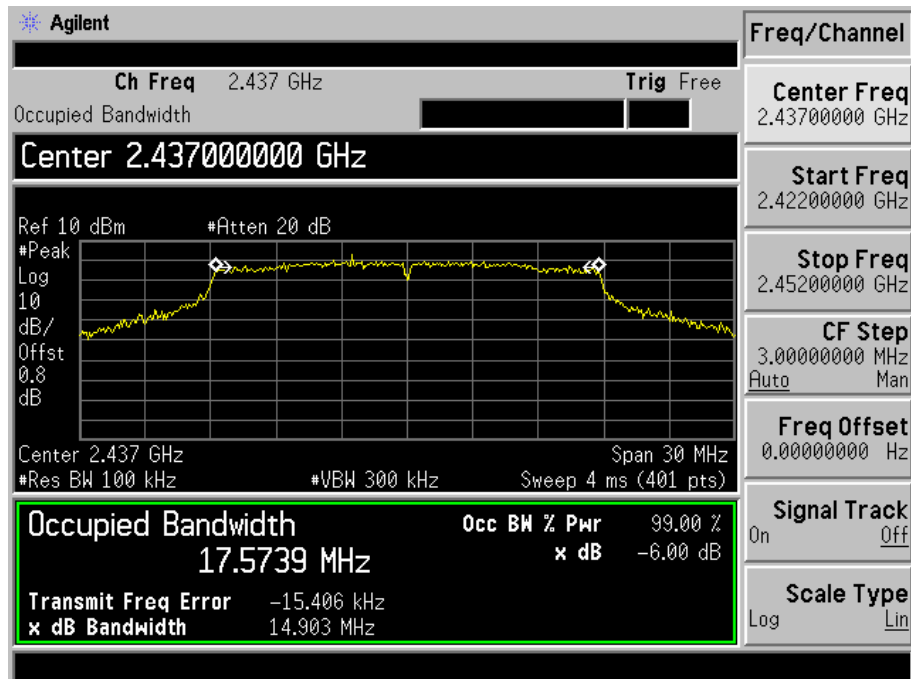
802.11g-High Channel



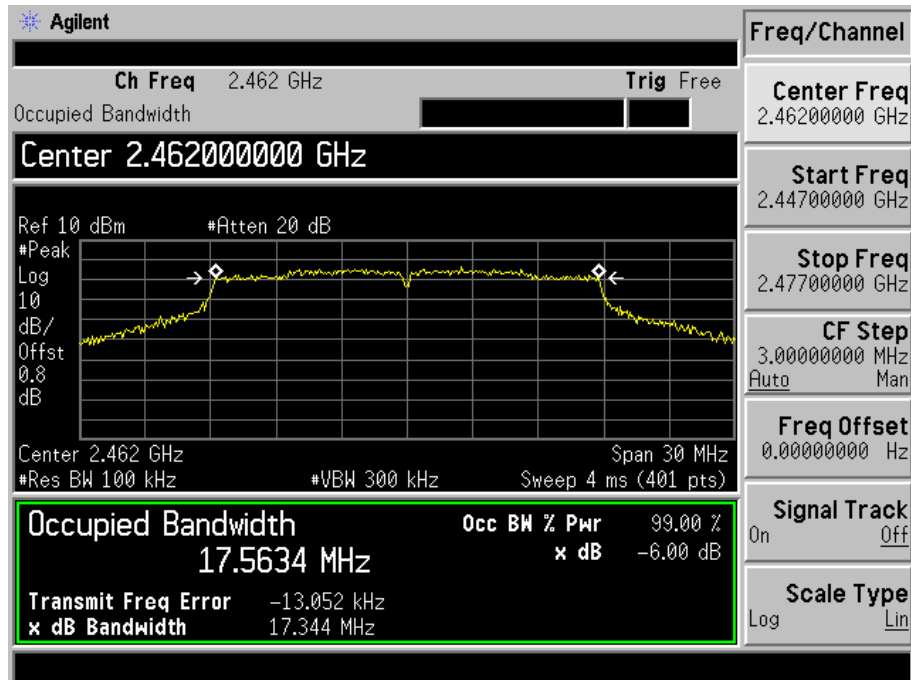
802.11n-HT20-Low Channel



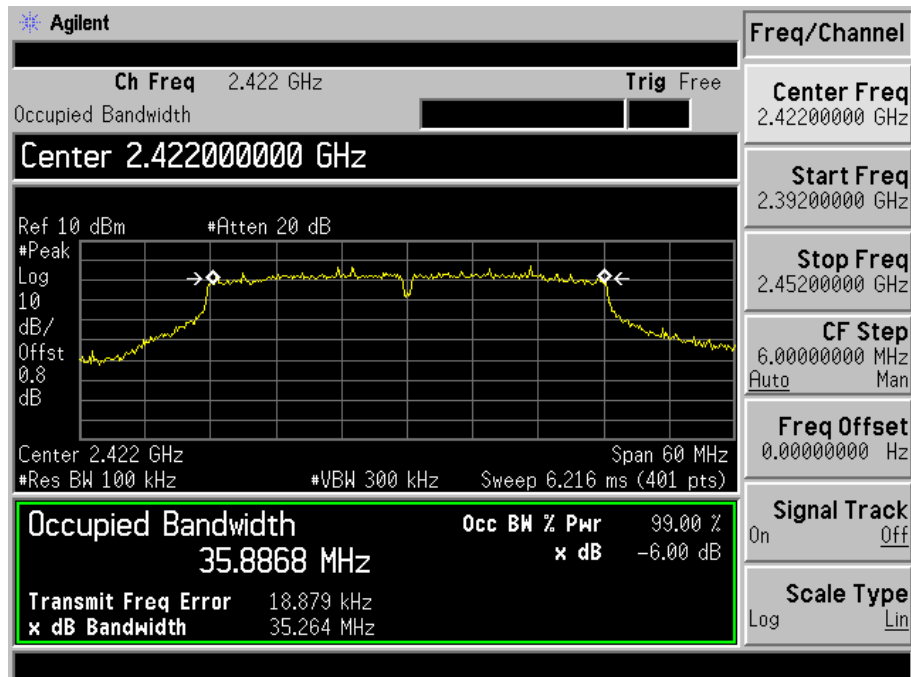
802.11n-HT20-Middle Channel



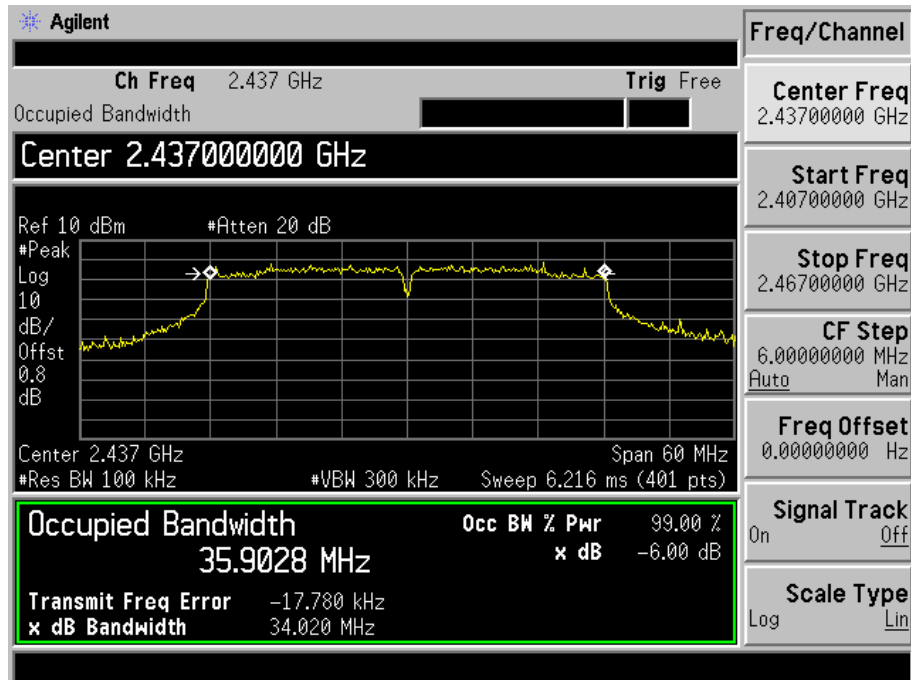
802.11n-HT20-High Channel



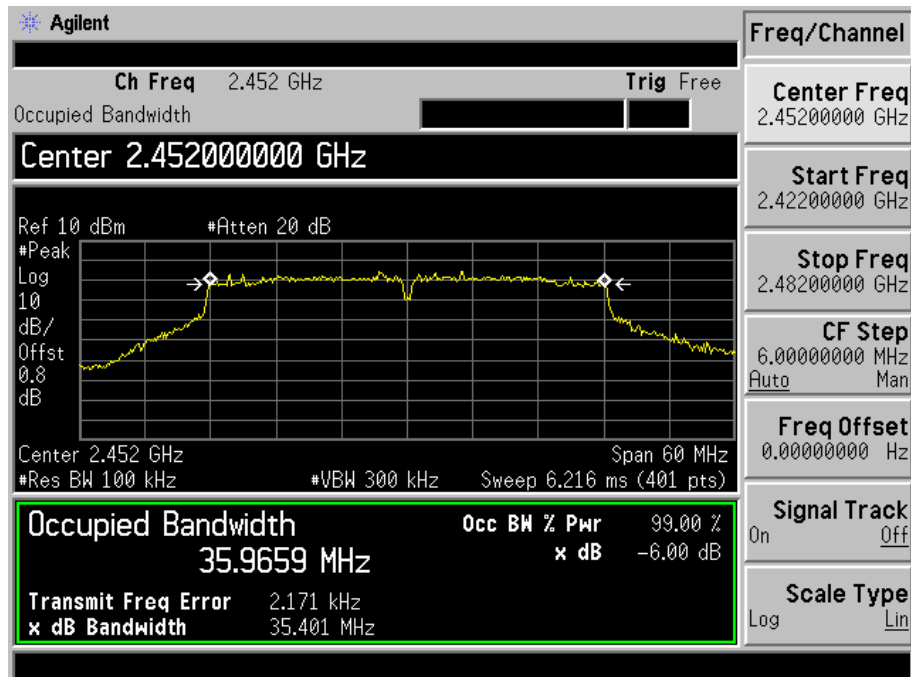
802.11n-HT40-Low Channel



802.11n-HT40-Middle Channel

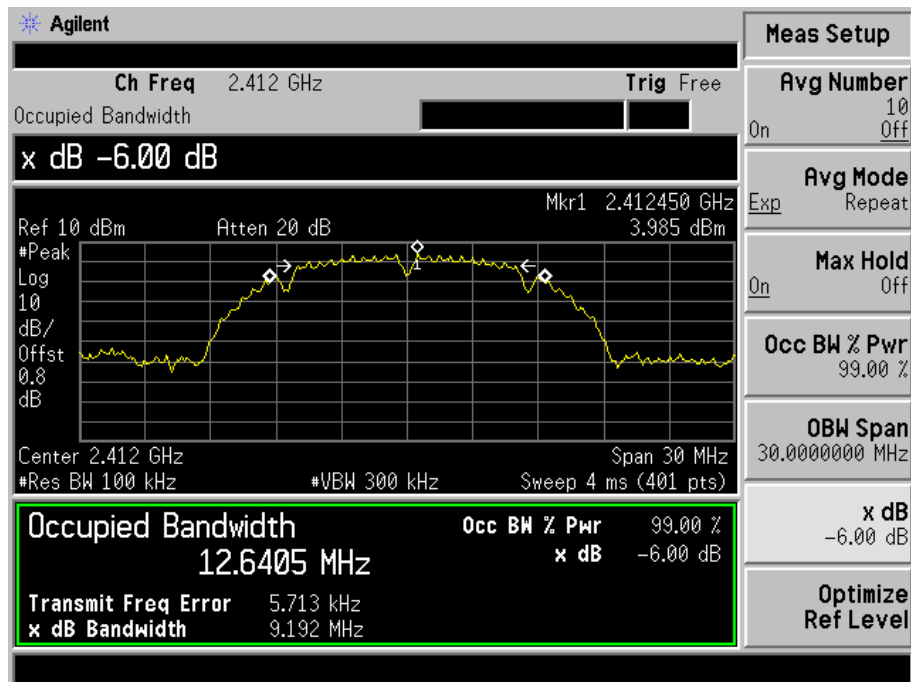


802.11n-HT40-High Channel

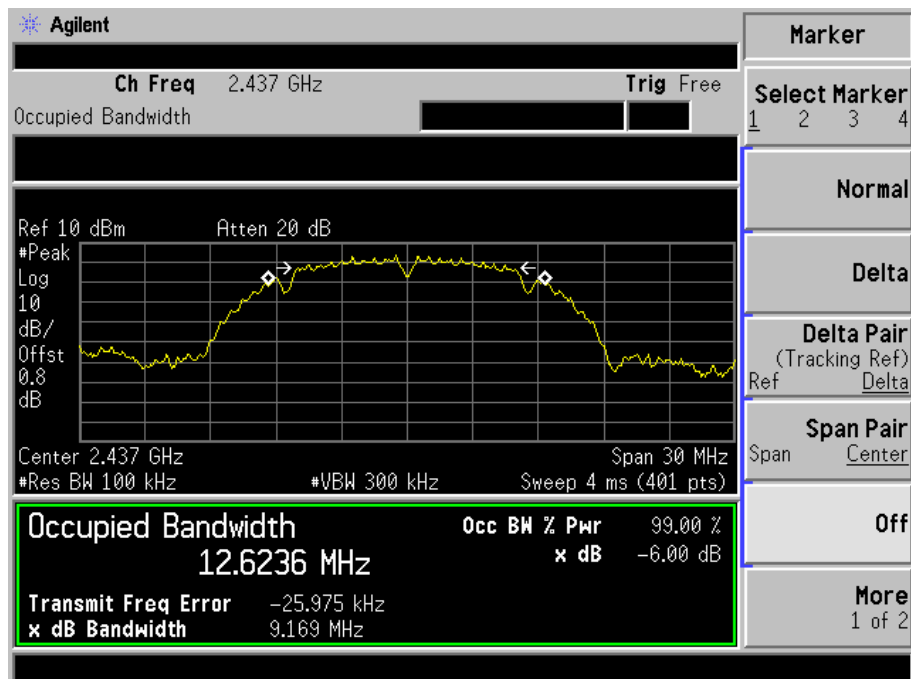


Antenna B

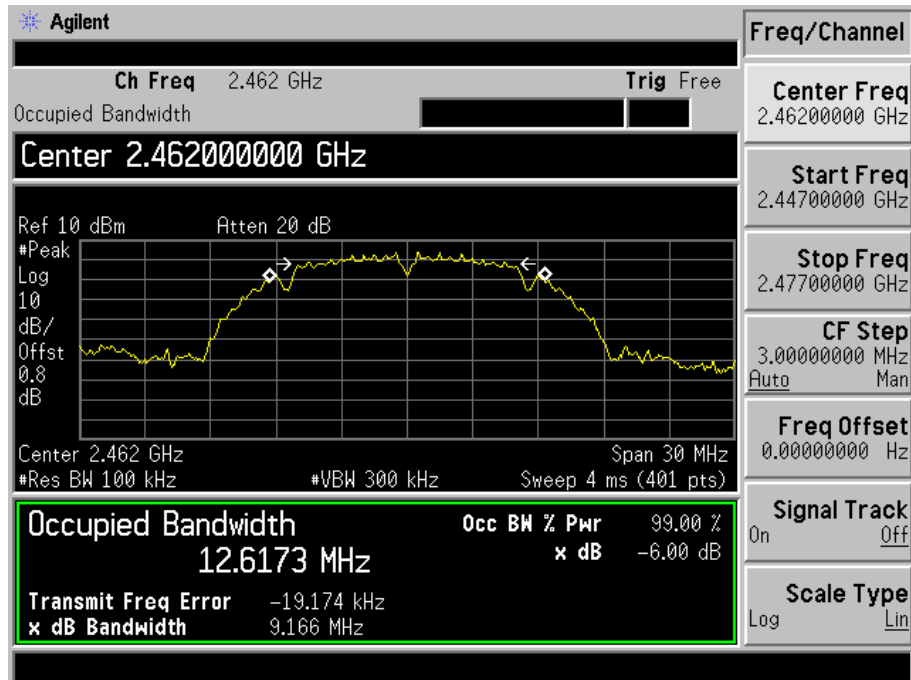
802.11b-Low Channel



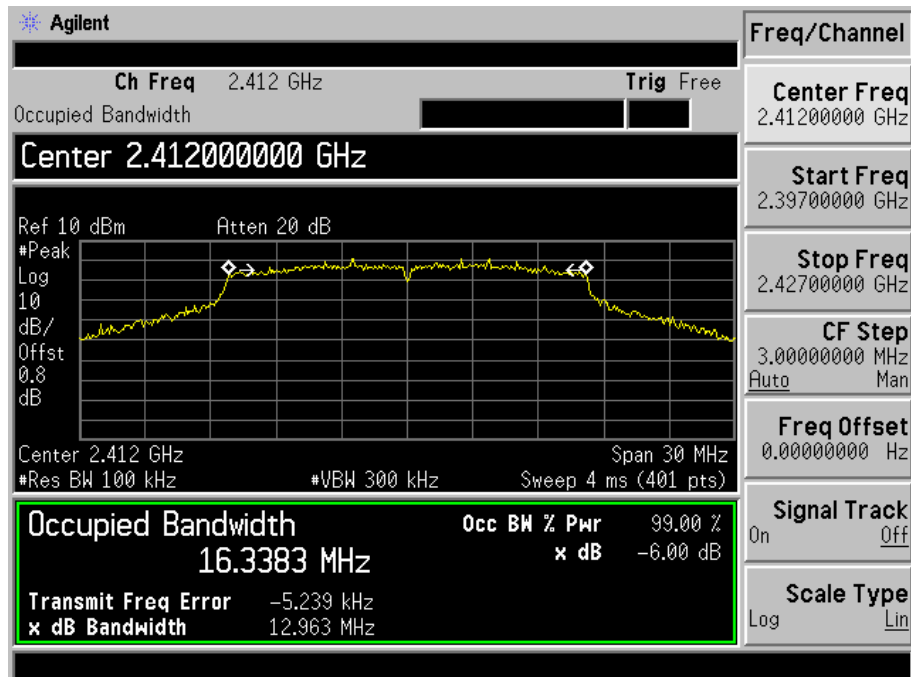
802.11b-Middle Channel



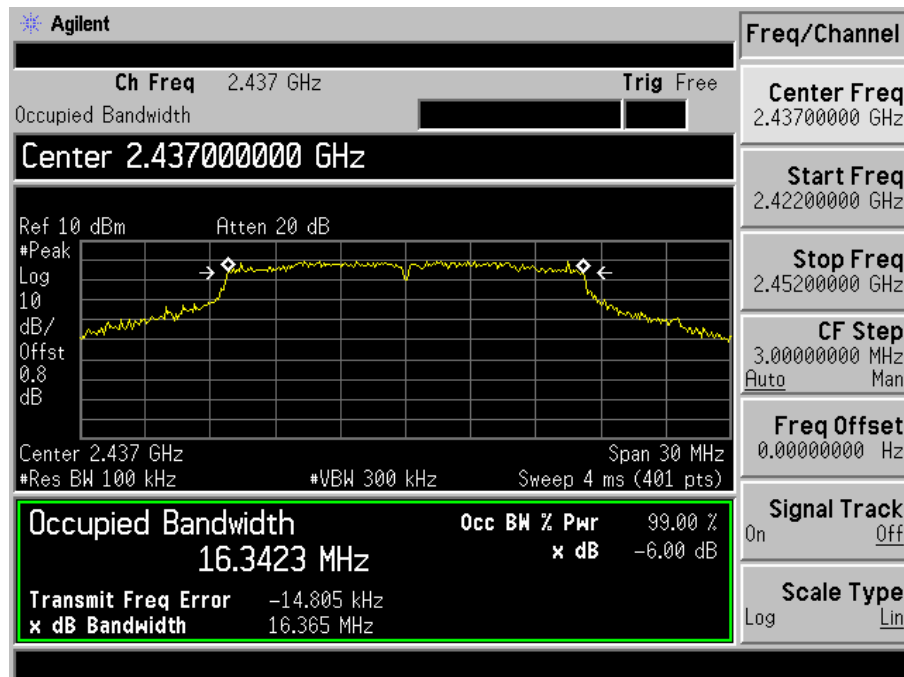
802.11b-High Channel



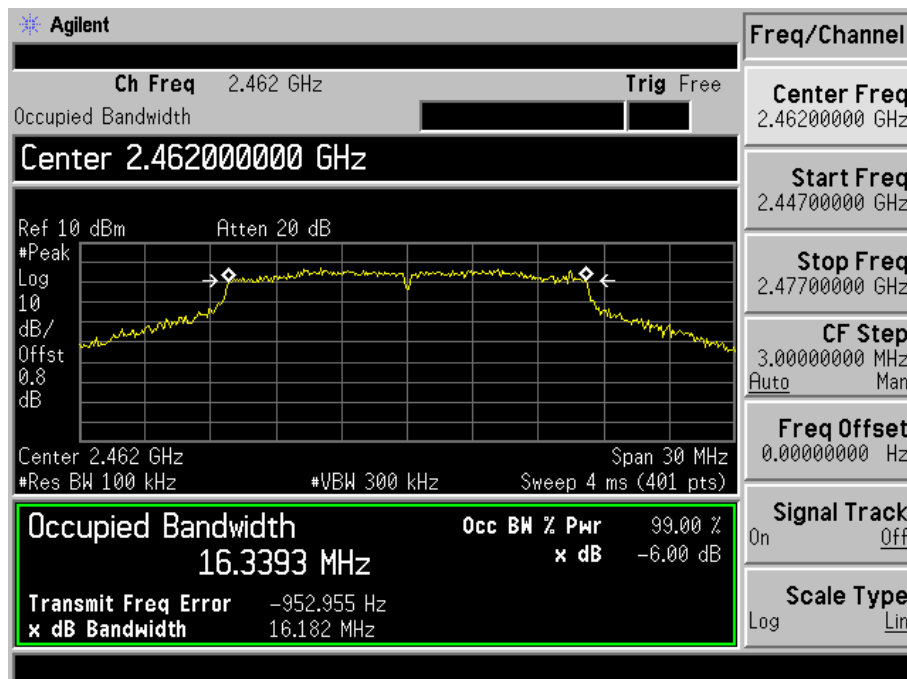
802.11g-Low Channel



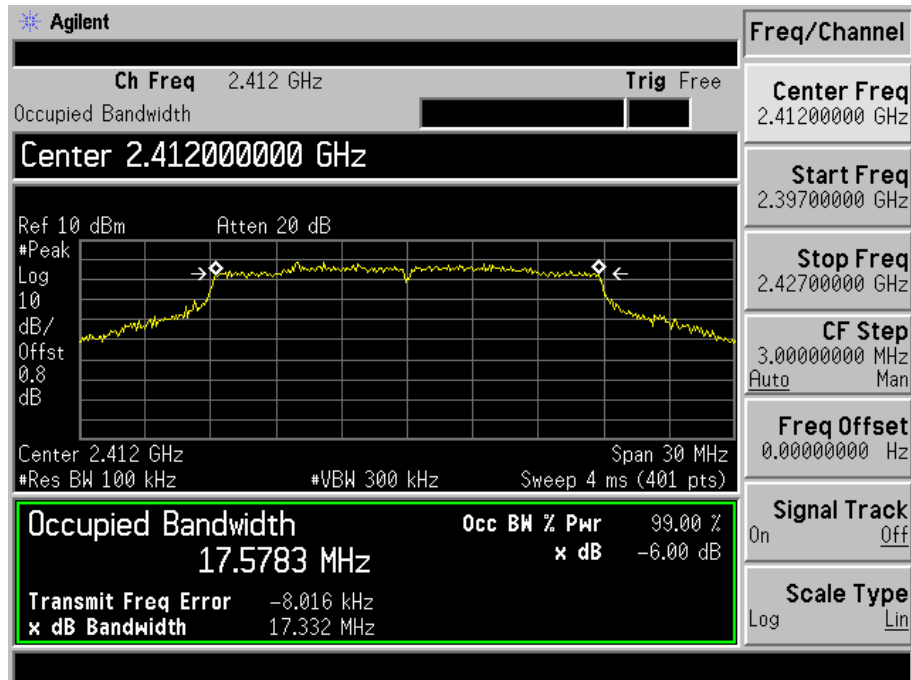
802.11g-Middle Channel



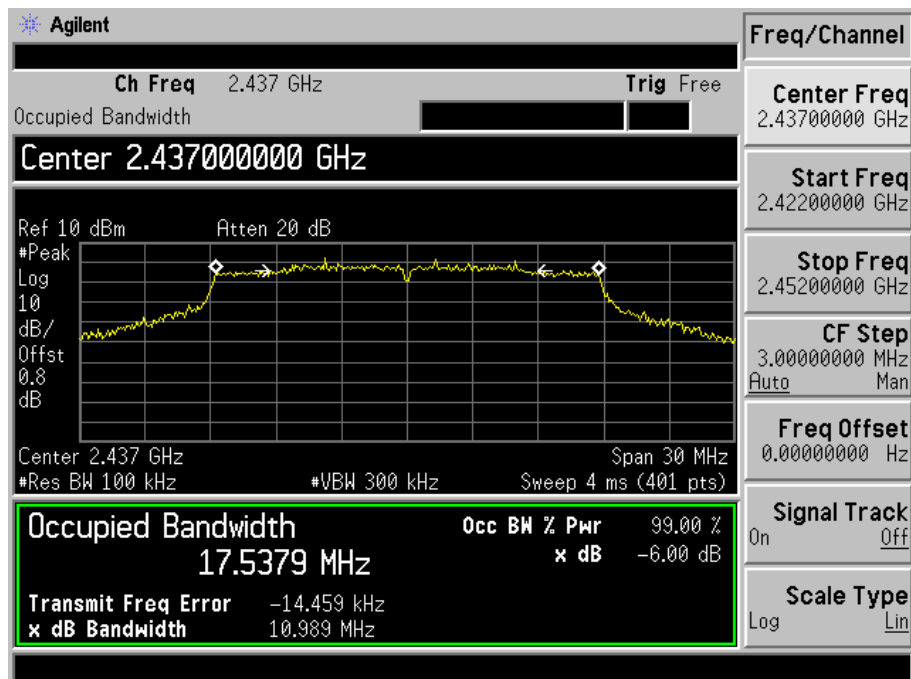
802.11g-High Channel



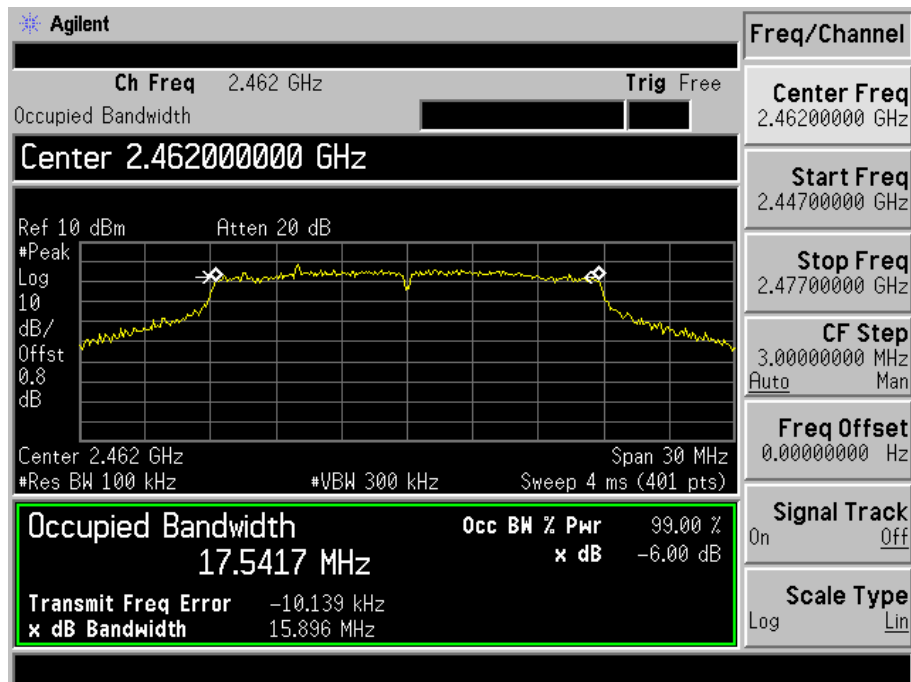
802.11n-HT20-Low Channel



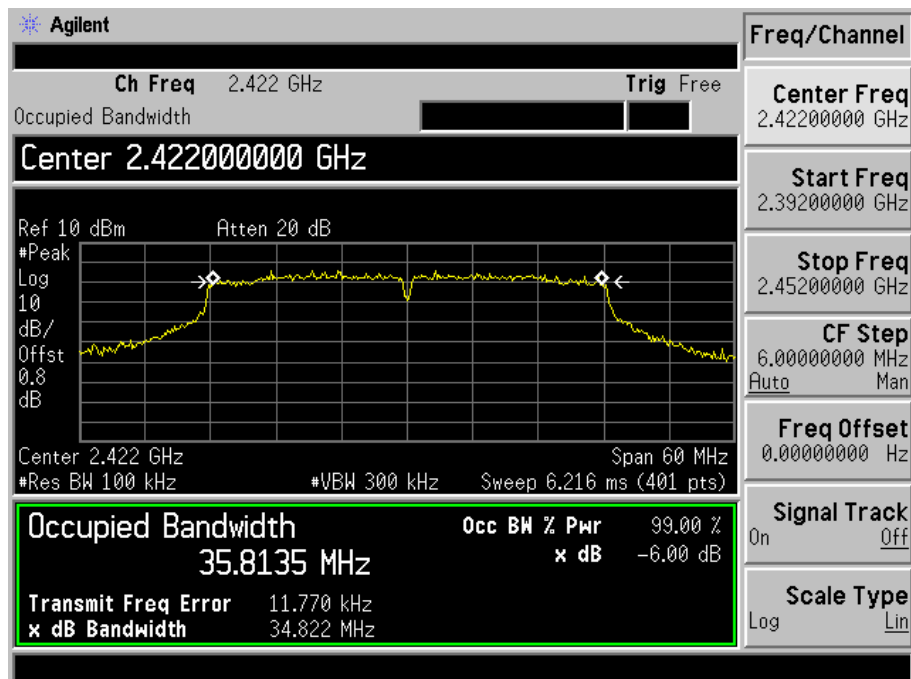
802.11n-HT20-Middle Channel



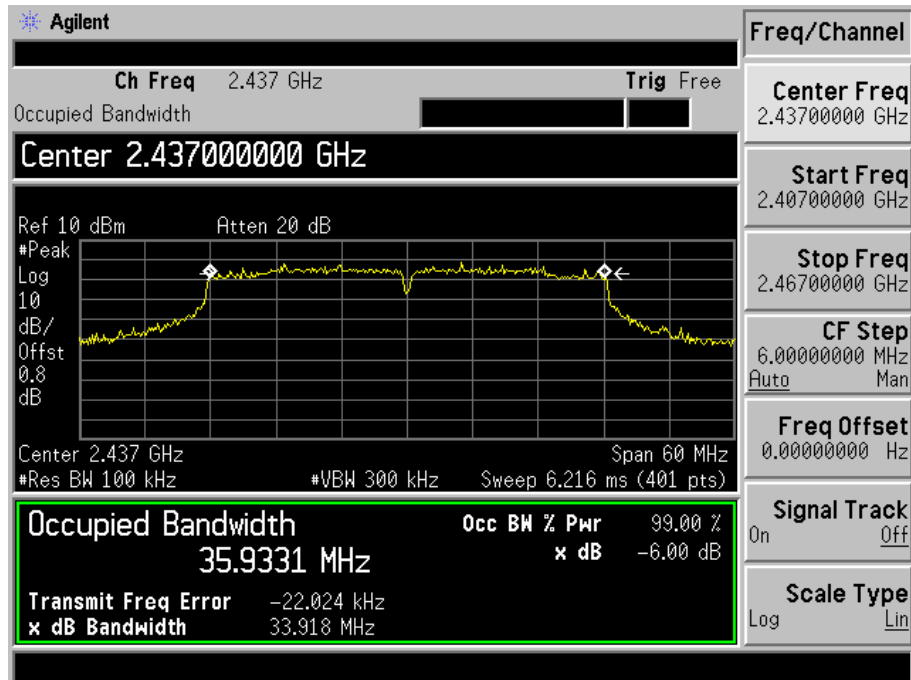
802.11n-HT20-High Channel



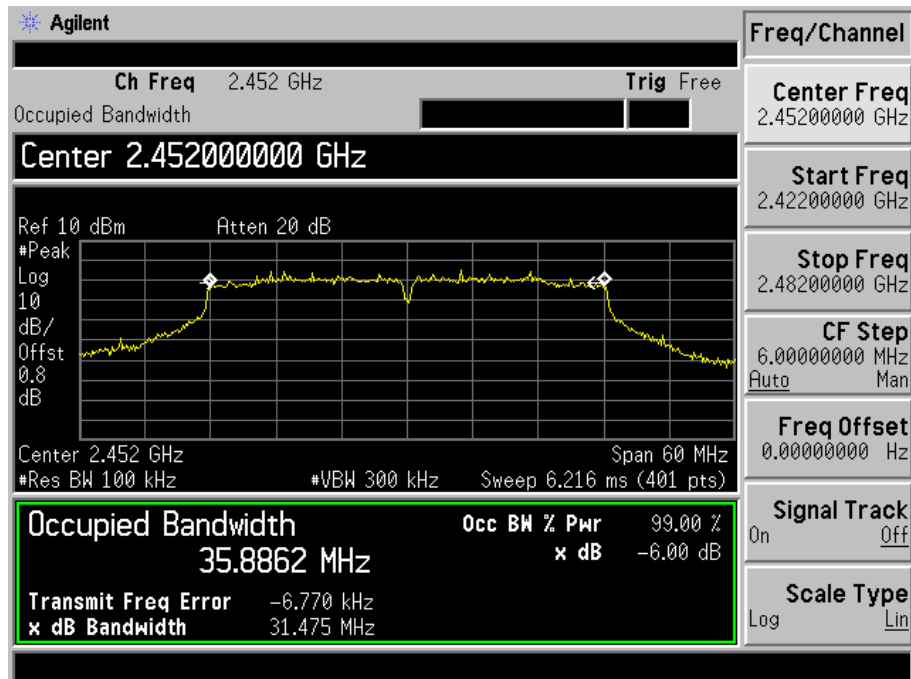
802.11n-HT40-Low Channel



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 v04, 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 $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, 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 $\geq 98\%$, 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

Antenna A

Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
802.11b_11Mbps	2412	13.52	22.49	1000
	2437	12.47	17.66	1000
	2462	13.11	20.46	1000
802.11g_54Mbps	2412	10.71	11.78	1000
	2437	13.23	21.04	1000
	2462	9.82	9.59	1000
802.11n HT20_MCS7	2412	10.19	10.45	1000
	2437	13.19	20.84	1000
	2462	9.20	8.32	1000
802.11n HT40_MCS7	2422	9.21	8.34	1000
	2437	11.97	15.74	1000
	2452	8.62	7.28	1000

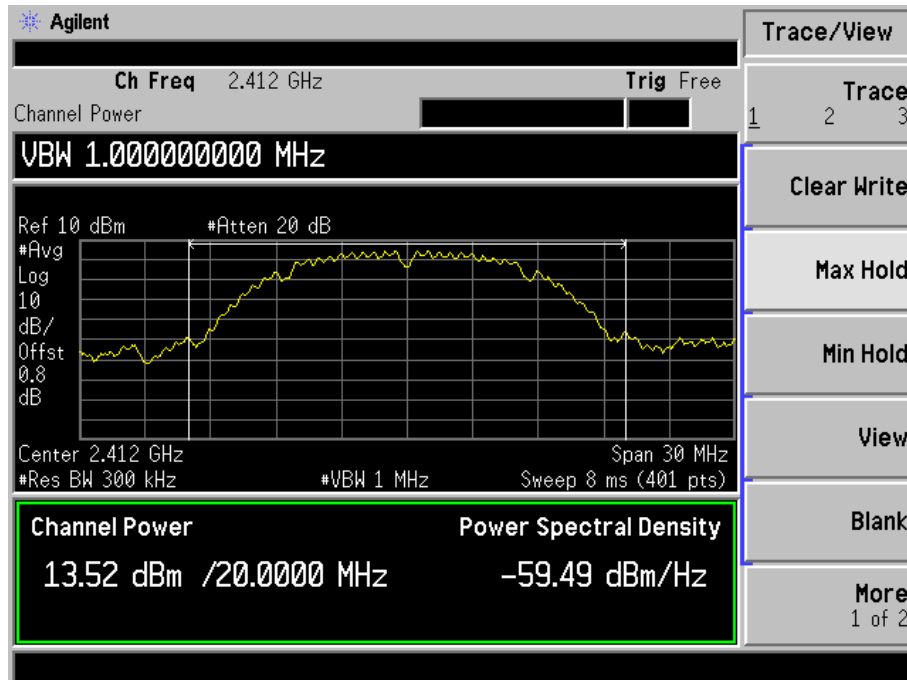
Antenna B

Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
802.11b_11Mbps	2412	12.93	19.63	1000
	2437	13.00	19.95	1000
	2462	12.37	17.26	1000
802.11g_54Mbps	2412	11.19	13.15	1000
	2437	12.52	17.86	1000
	2462	9.26	8.43	1000
802.11n HT20_MCS7	2412	11.16	13.06	1000
	2437	12.65	18.41	1000
	2462	9.49	8.89	1000
802.11n HT40_MCS7	2422	9.50	8.91	1000
	2437	11.74	14.93	1000
	2452	7.29	5.36	1000

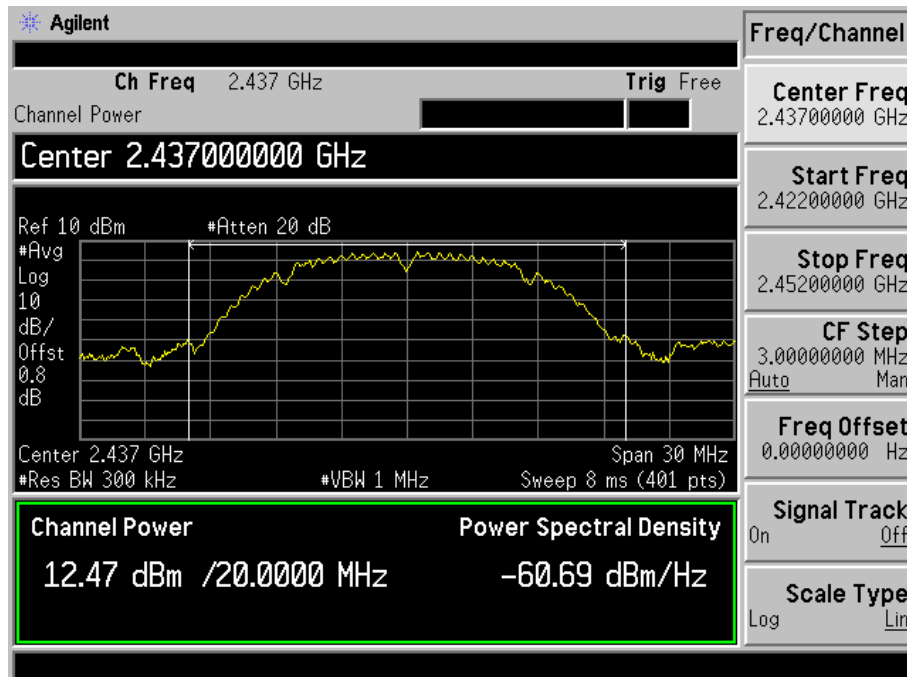
Please refer to the following test plots:

Antenna A

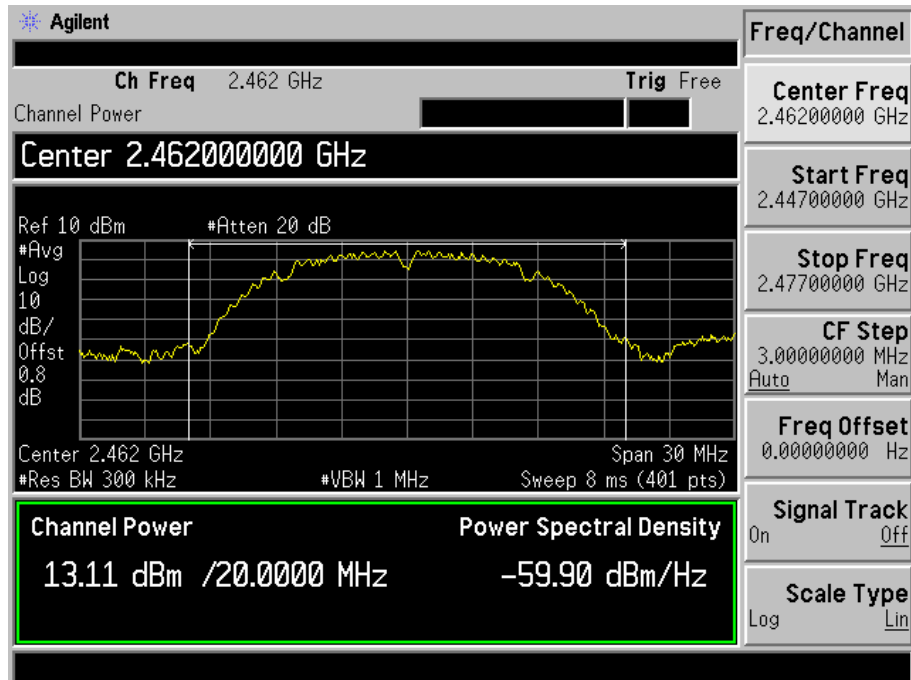
802.11b-11Mbps-Low Channel



802.11b -11Mbps-Middle Channel



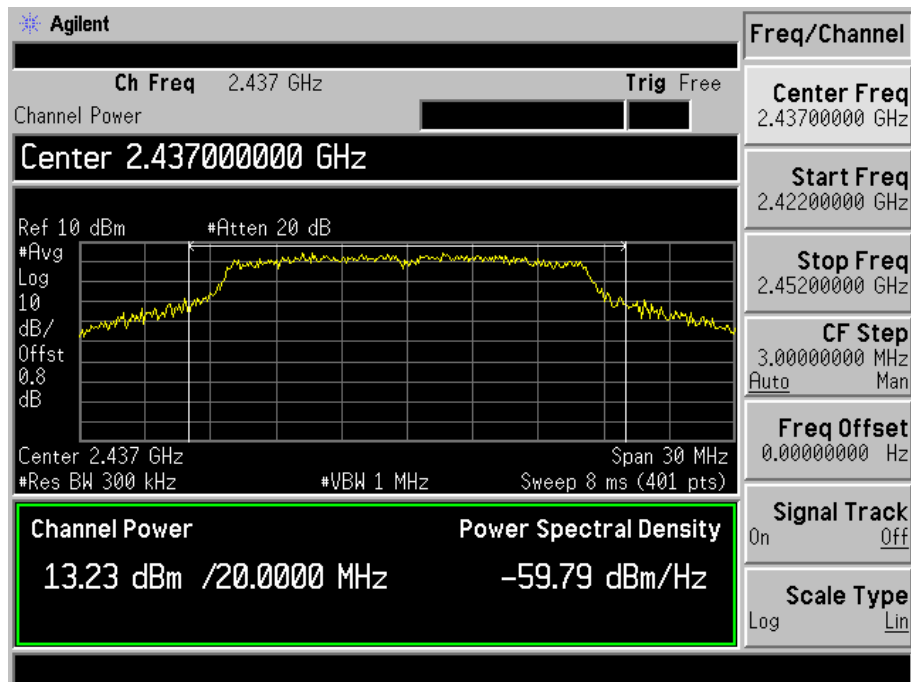
802.11b -11Mbps-High Channel



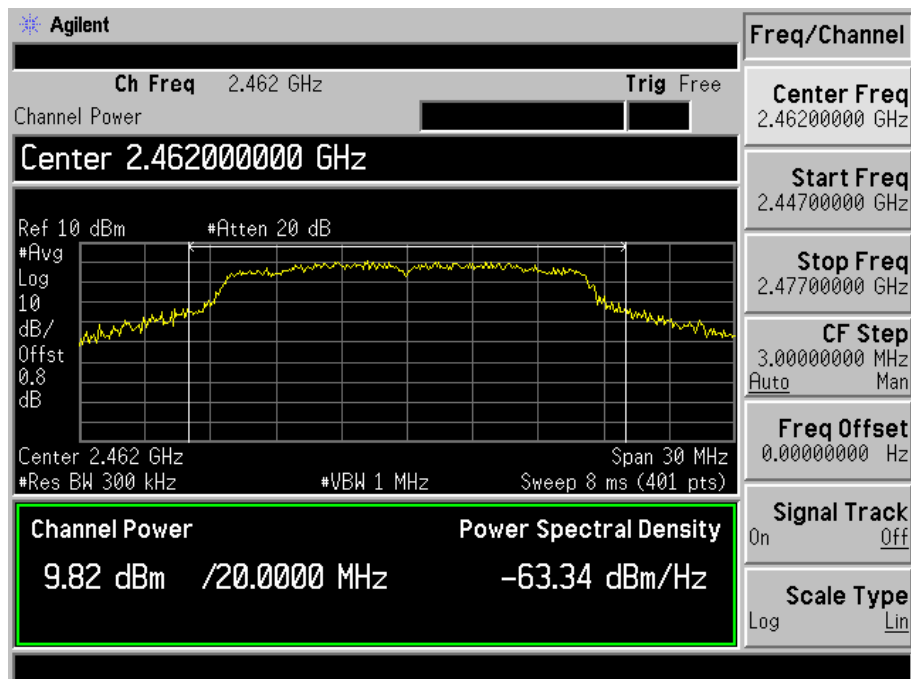
802.11g-54Mbps-Low Channel



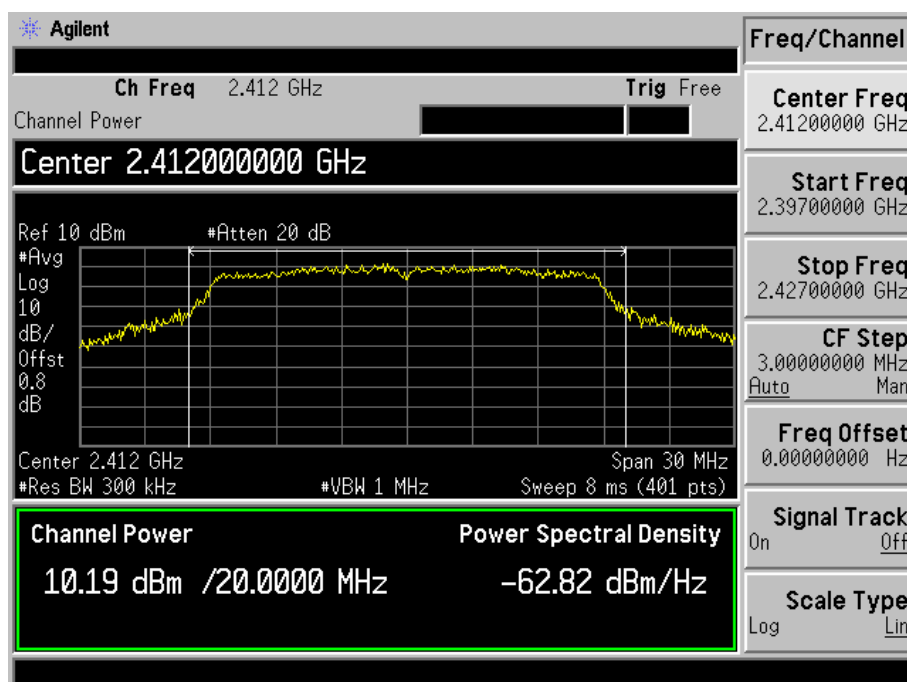
802.11g-54Mbps-Middle Channel



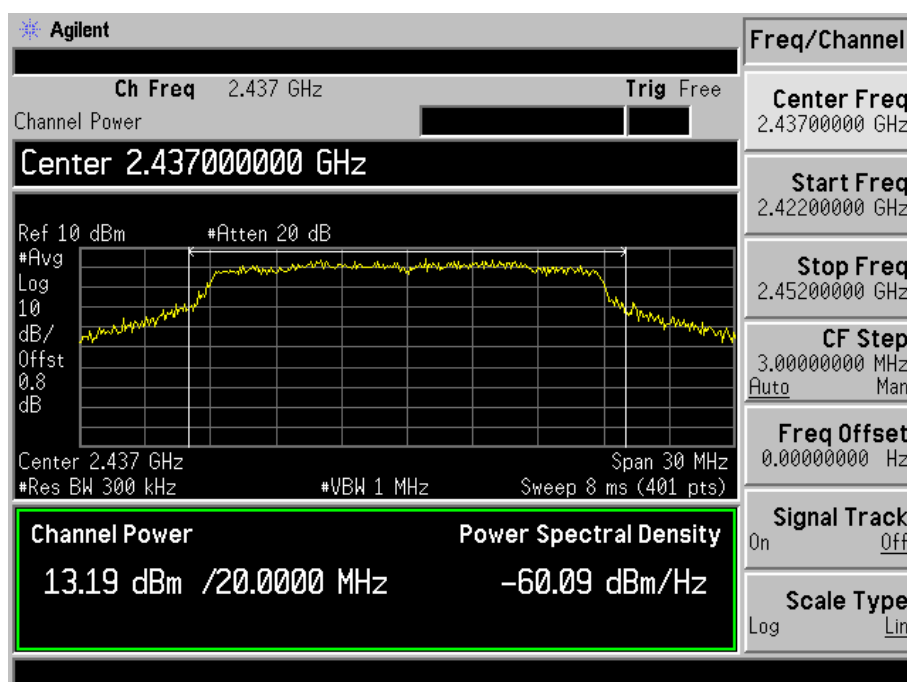
802.11g-54Mbps-High Channel



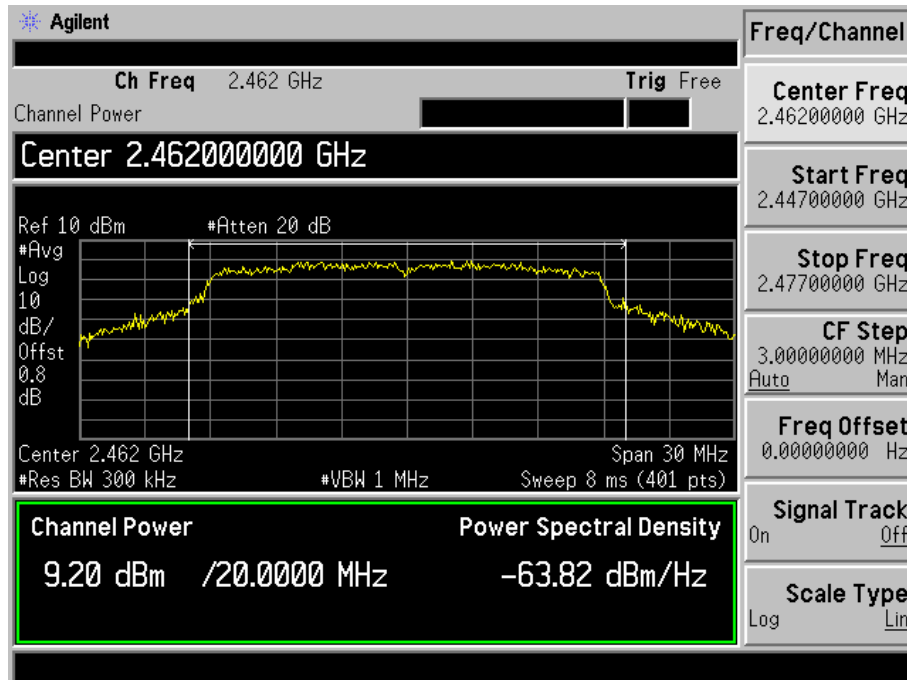
802.11n-HT20-MCS7-Low Channel



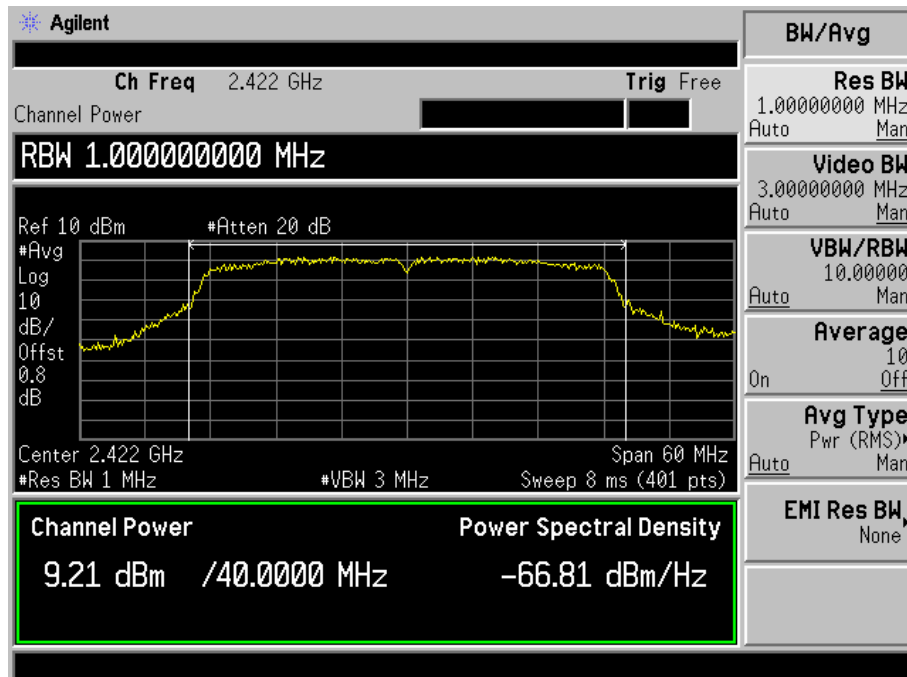
802.11n-HT20-MCS7-Middle Channel



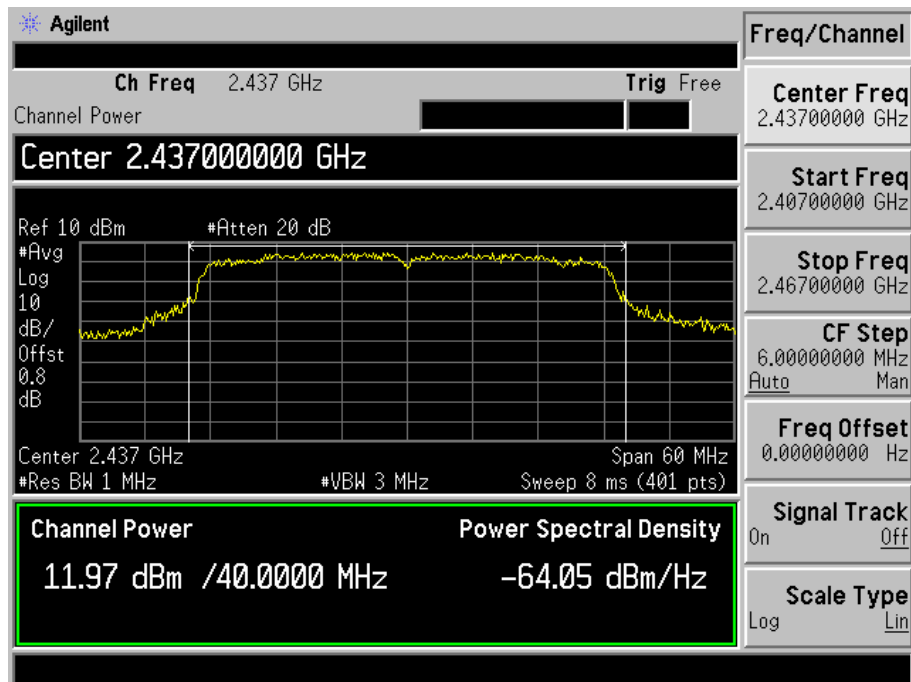
802.11n-HT20-MCS7-High Channel



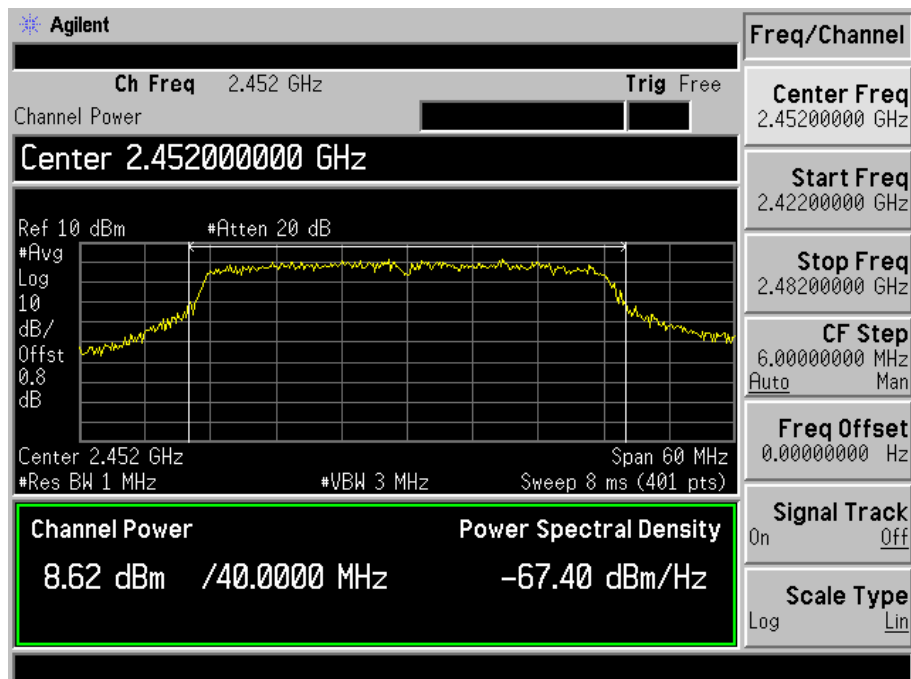
802.11n-HT40-MCS7-Low Channel



802.11n-HT40-MCS7-Middle Channel

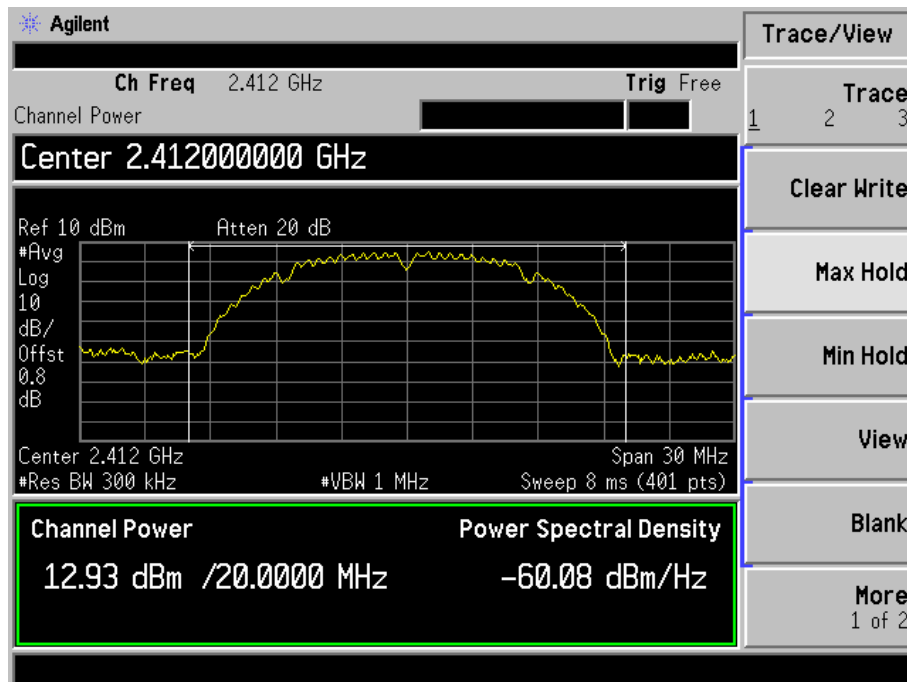


802.11n-HT40-MCS7-High Channel

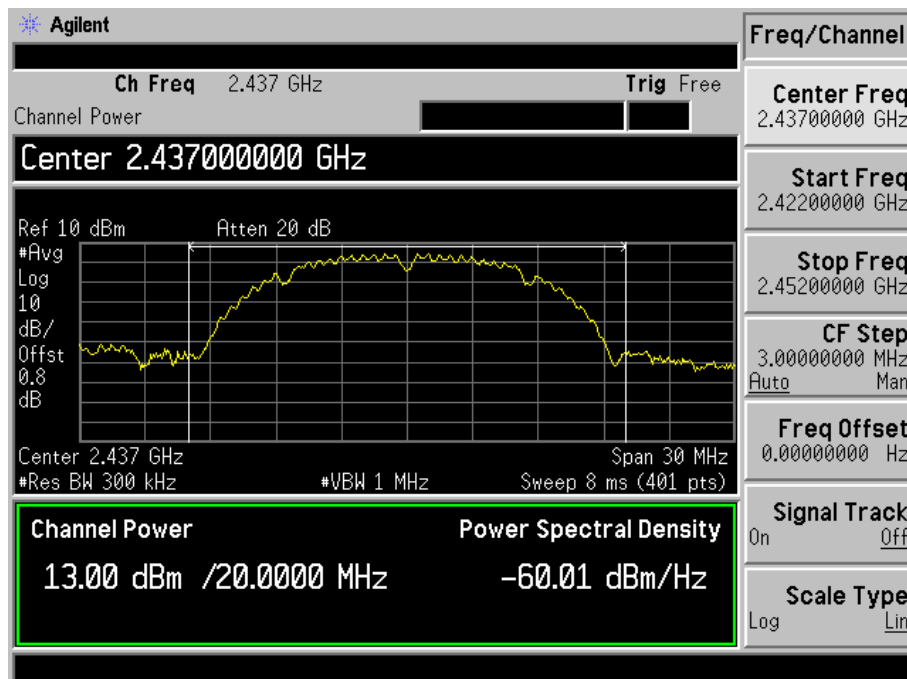


Antenna B

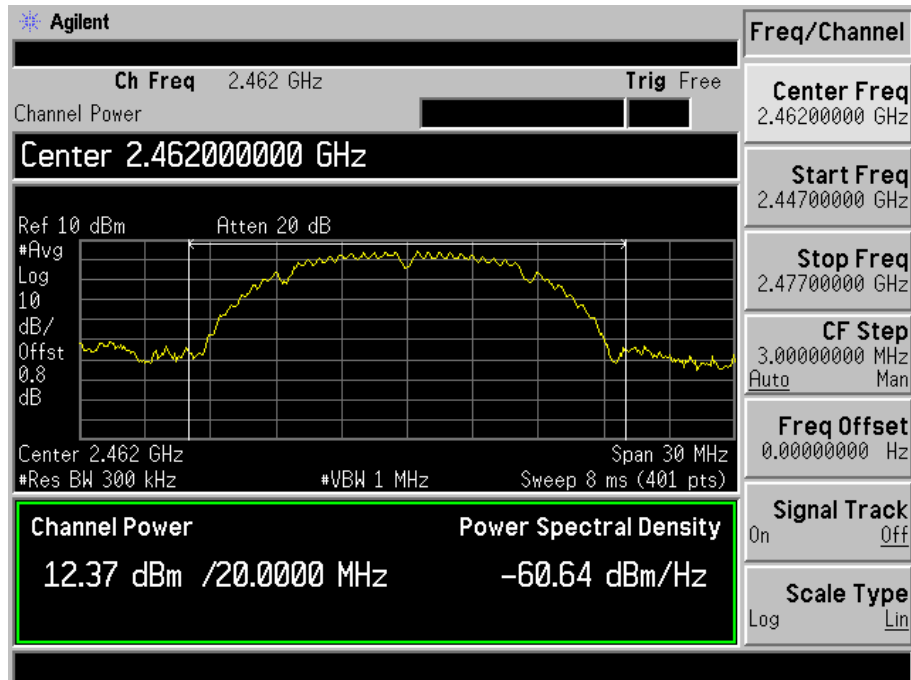
802.11b-11Mbps-Low Channel



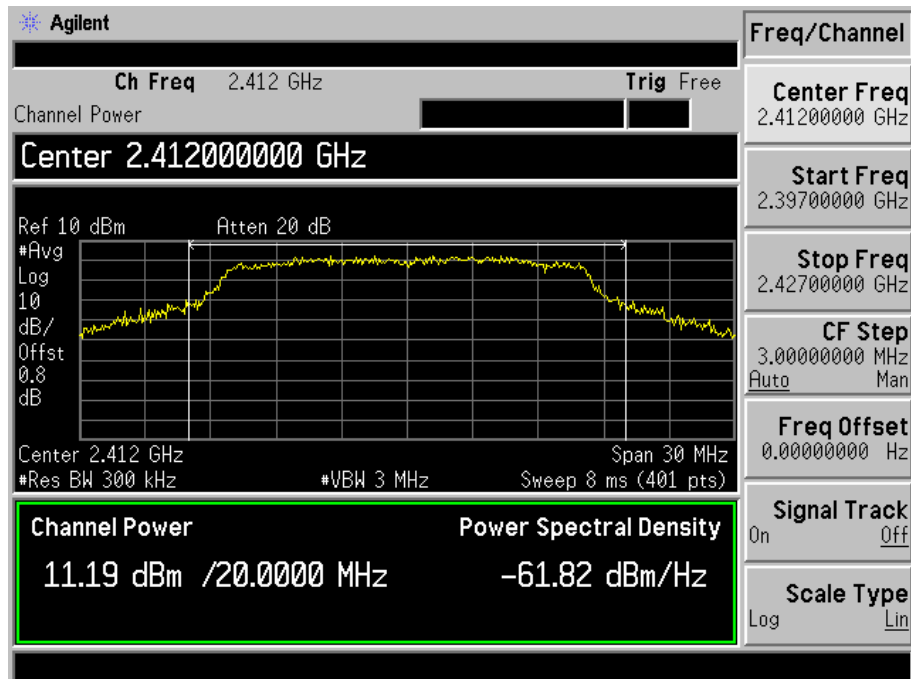
802.11b -11Mbps-Middle Channel



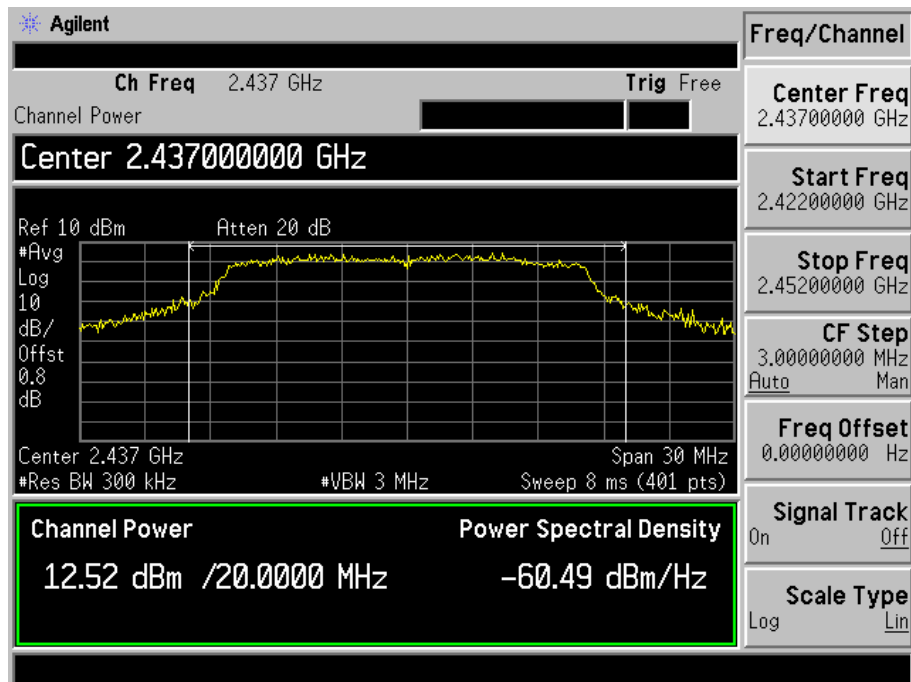
802.11b -11Mbps-High Channel



802.11g-54Mbps-Low Channel



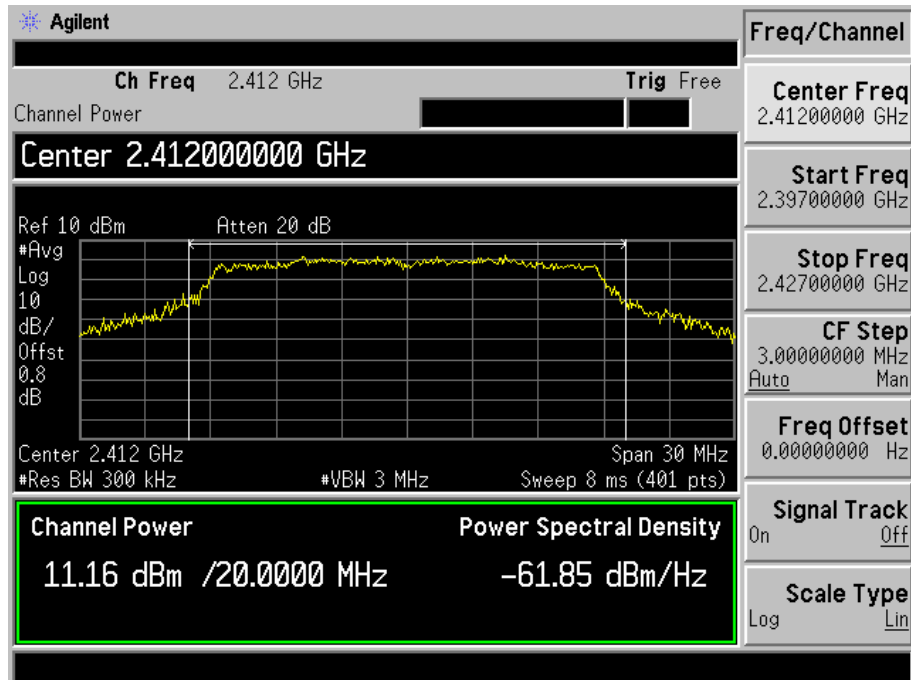
802.11g-54Mbps-Middle Channel



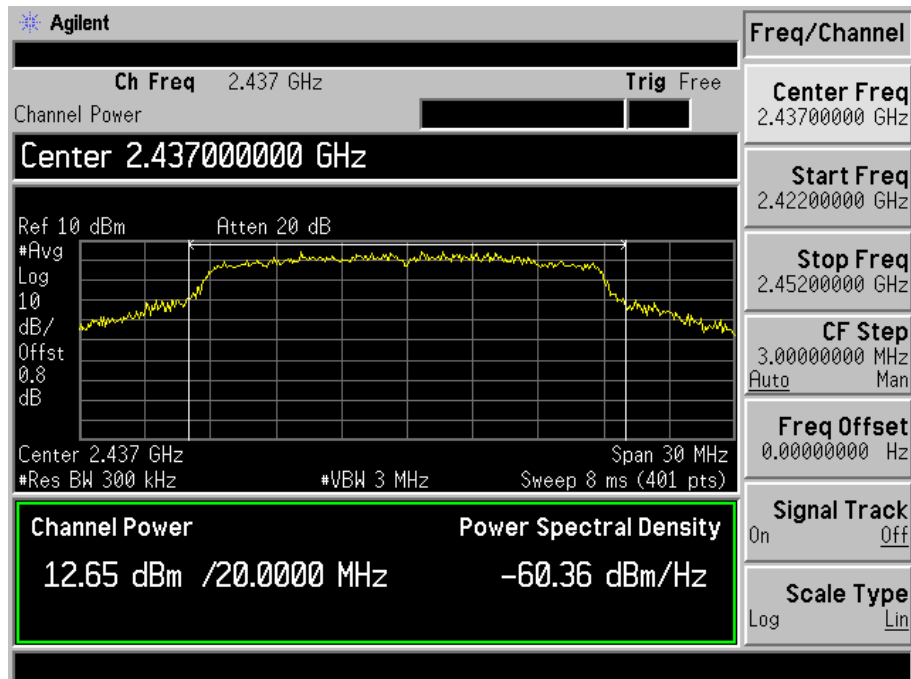
802.11g-54Mbps-High Channel



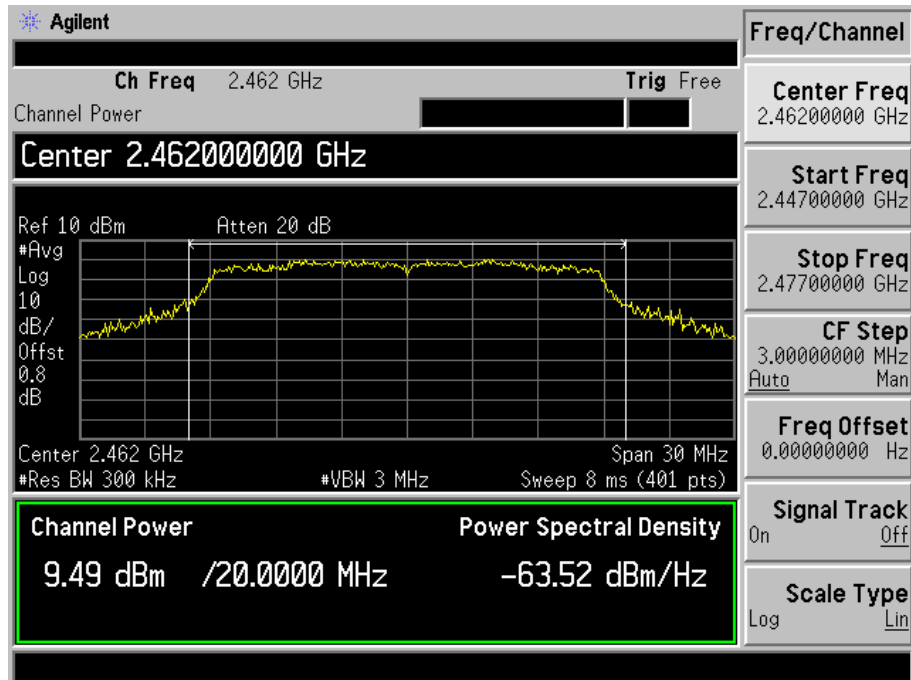
802.11n-HT20-MCS7-Low Channel



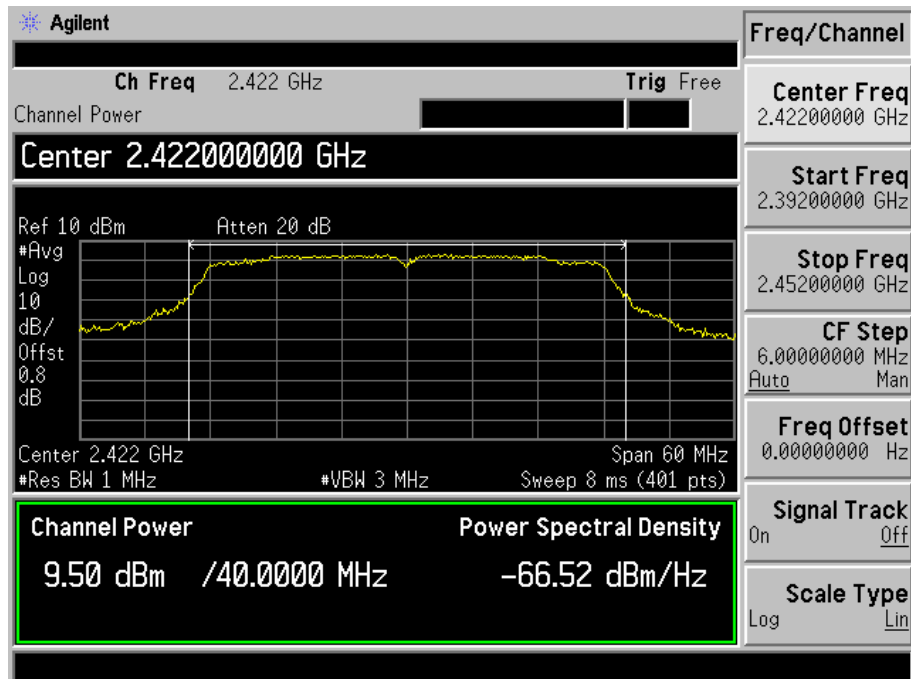
802.11n-HT20-MCS7-Middle Channel



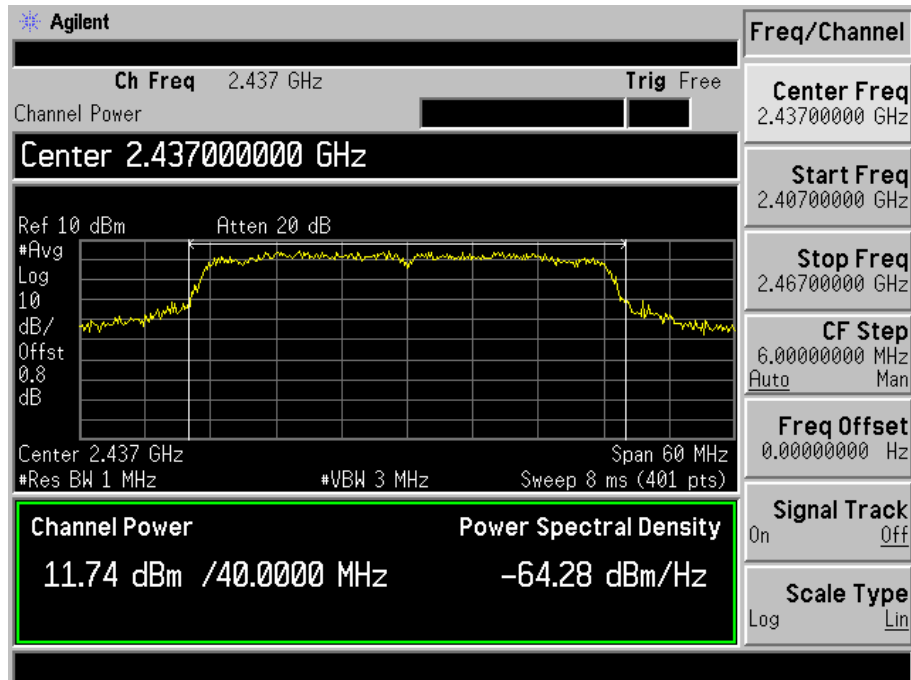
802.11n-HT20-MCS7-High Channel



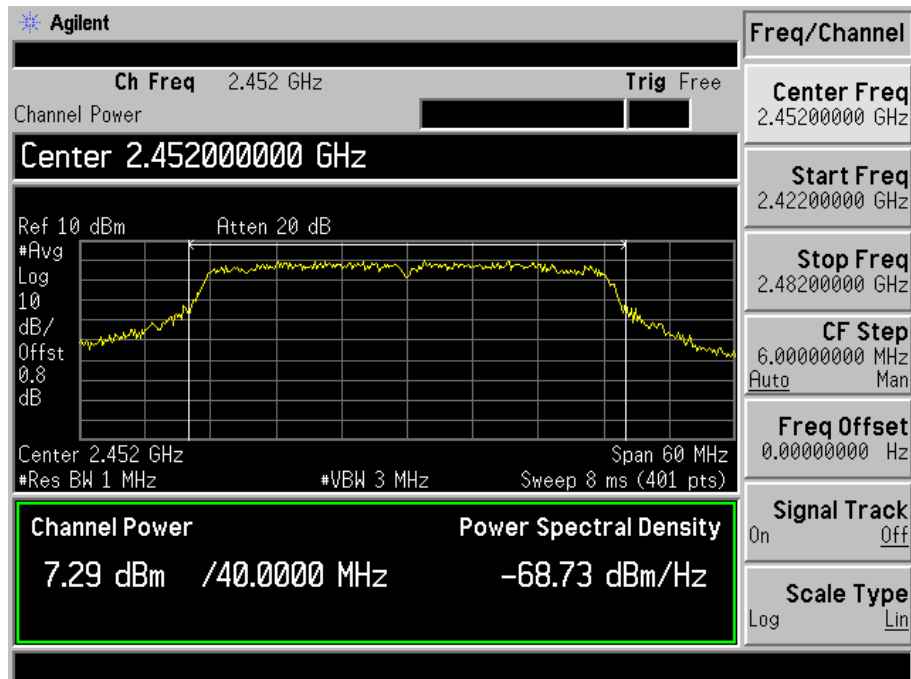
802.11n-HT40-MCS7-Low Channel



802.11n-HT40-MCS7-Middle Channel



802.11n-HT40-MCS7-High Channel



8. Field Strength of Spurious Emissions

8.1 Standard Applicable

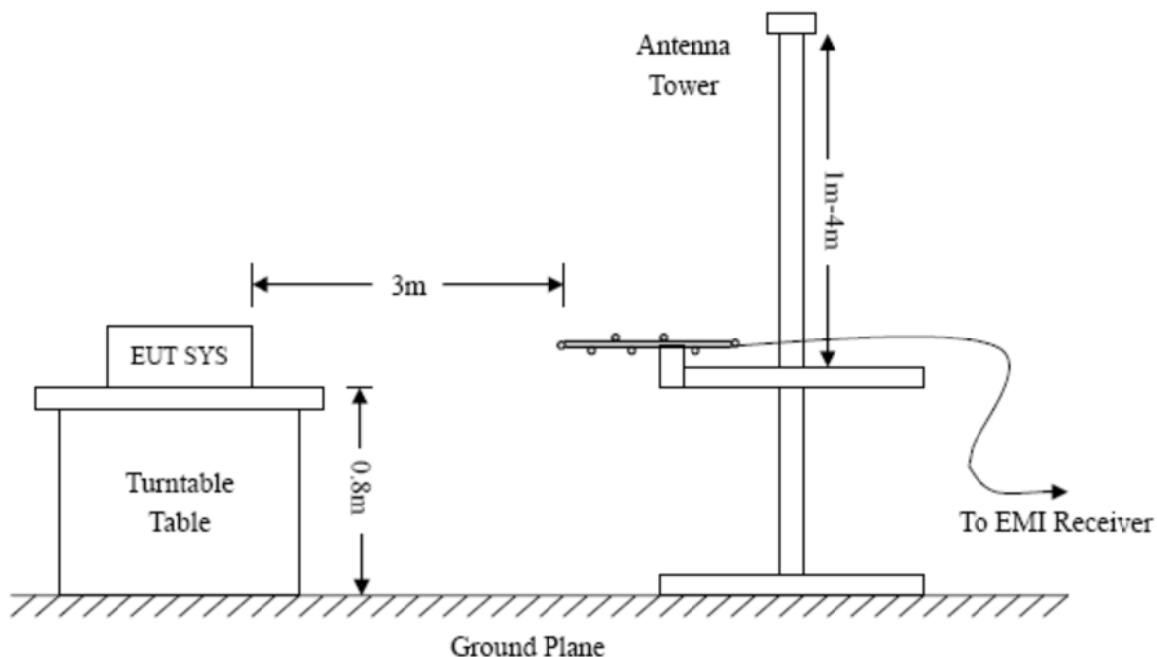
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within 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).

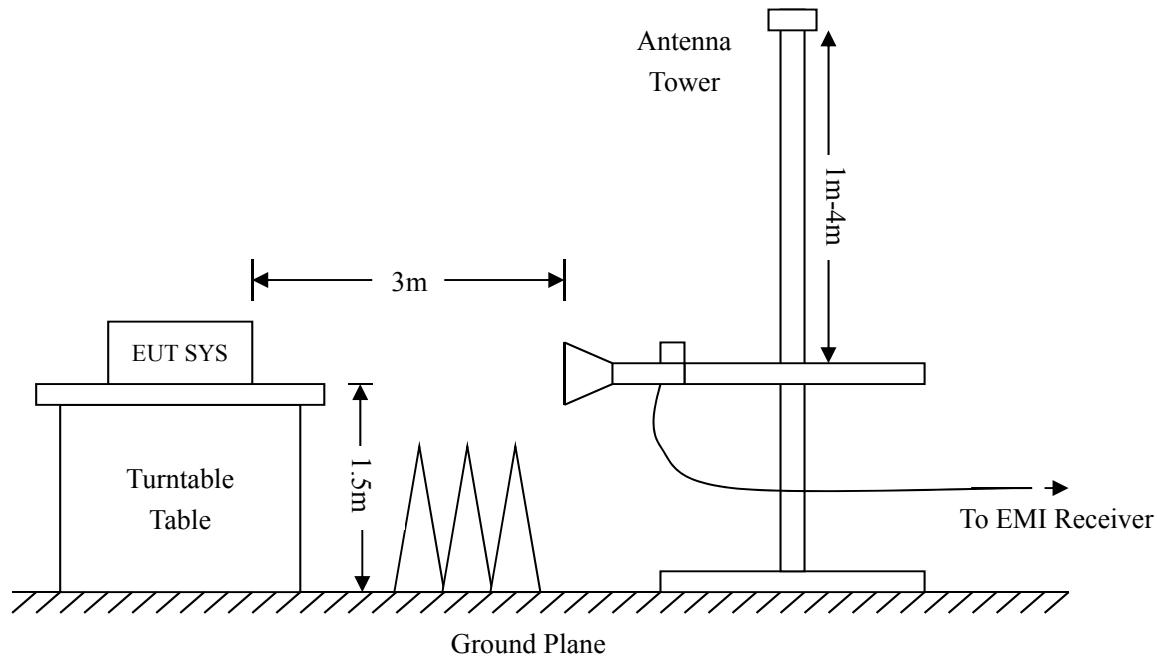
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

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

RBW=10KHz,

VBW =30KHz

Sweep time= Auto

Trace = max hold

Detector function = peak

Frequency :30MHz-1GHz

RBW=120KHz,

VBW=360KHz

Sweep time= Auto

Trace = max hold

Detector function = peak, QP

Frequency :Above 1GHz

RBW=1MHz,

VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto

Trace = max hold

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 -6dBμV means the emission is 6dBμV 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:

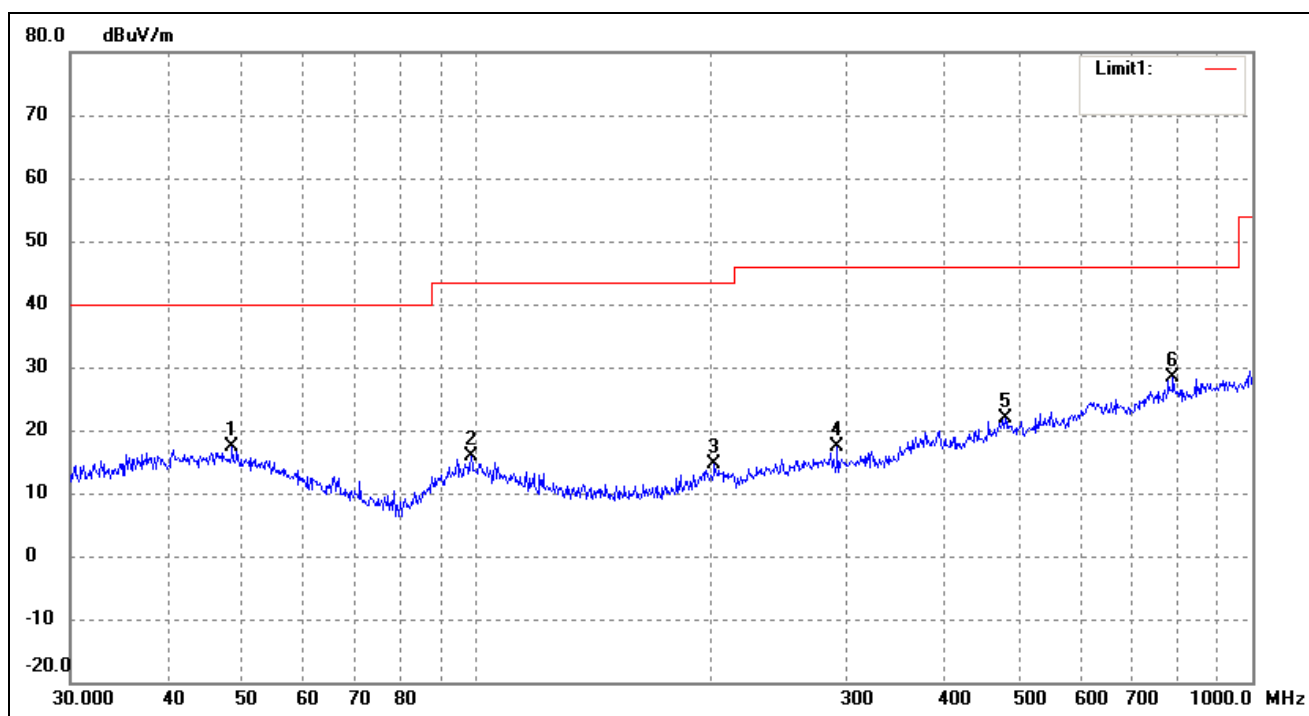
Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Antenna A

Plot of Radiated Emissions Test Data (30MHz to 1GHz)

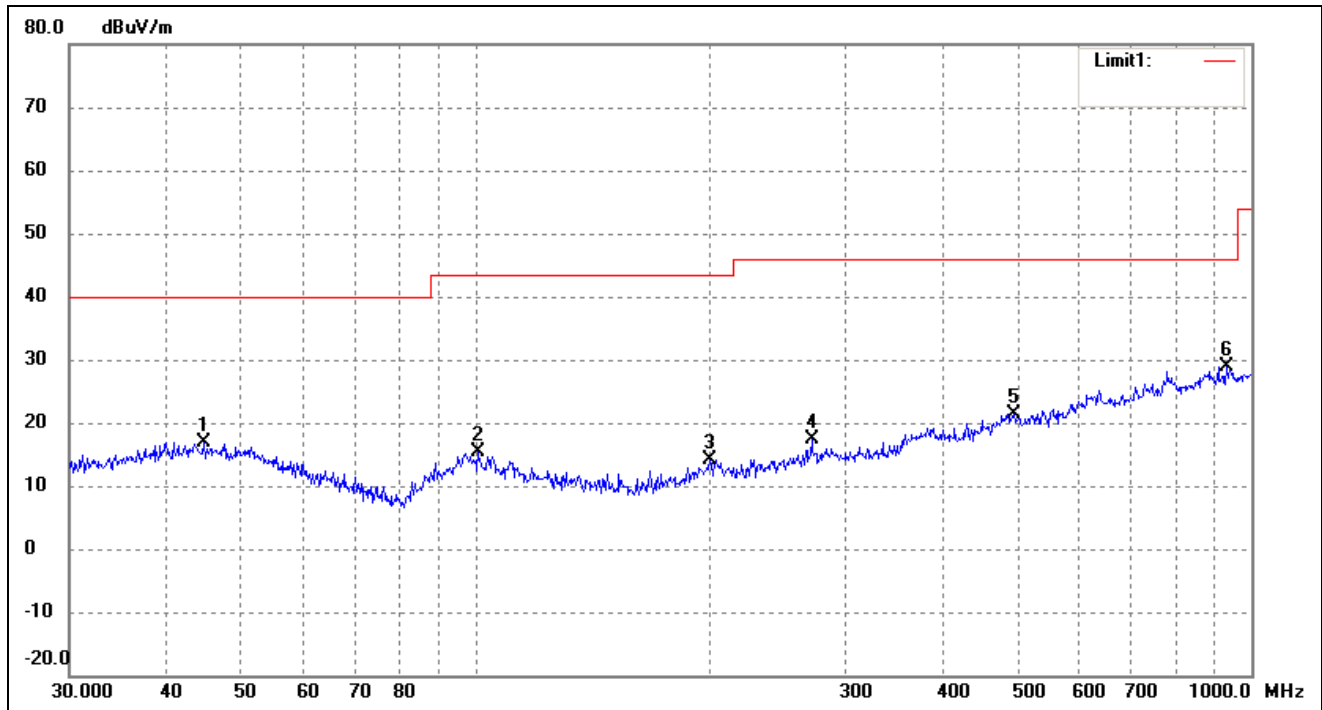
EUT: Tablet PC
 Tested Model: 11"TW110
 Operating Condition: 802.11b Transmitting
 Comment: DC 3.8V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.5016	27.97	-10.67	17.30	40.00	-22.70	215	100	peak
2	98.4866	27.65	-11.73	15.92	43.50	-27.58	90	100	peak
3	202.8104	26.42	-11.72	14.70	43.50	-28.80	223	100	peak
4	292.0583	27.13	-9.66	17.47	46.00	-28.53	121	100	peak
5	480.5276	27.12	-5.36	21.76	46.00	-24.24	175	100	peak
6	790.6188	28.10	0.21	28.31	46.00	-17.69	108	100	peak

Test Specification: Vertical

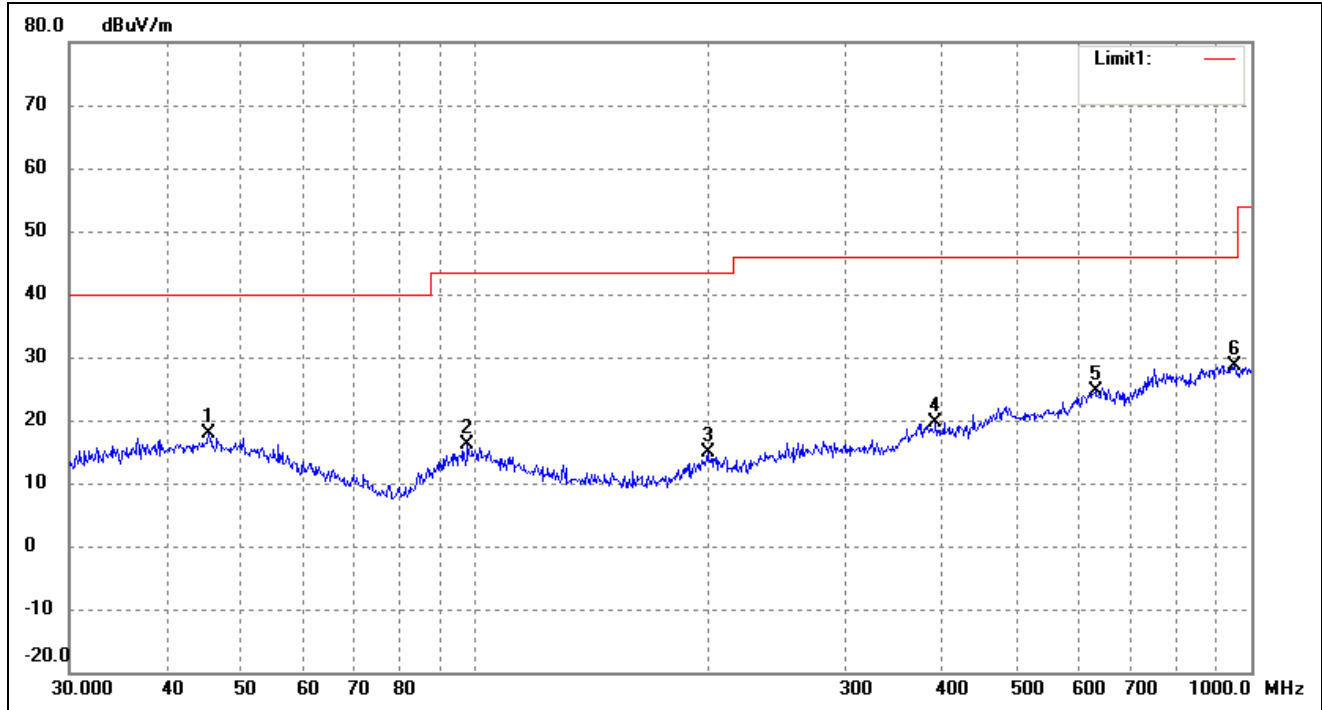


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	44.7434	27.25	-10.44	16.81	40.00	-23.19	279	100	peak
2	100.9340	26.77	-11.51	15.26	43.50	-28.24	100	100	peak
3	200.6881	25.76	-11.63	14.13	43.50	-29.37	283	100	peak
4	271.3246	27.09	-9.76	17.33	46.00	-28.67	102	100	peak
5	494.1984	27.42	-5.95	21.47	46.00	-24.53	71	100	peak
6	929.0082	26.88	2.00	28.88	46.00	-17.12	144	100	peak

Operating Condition: 802.11g Transmitting

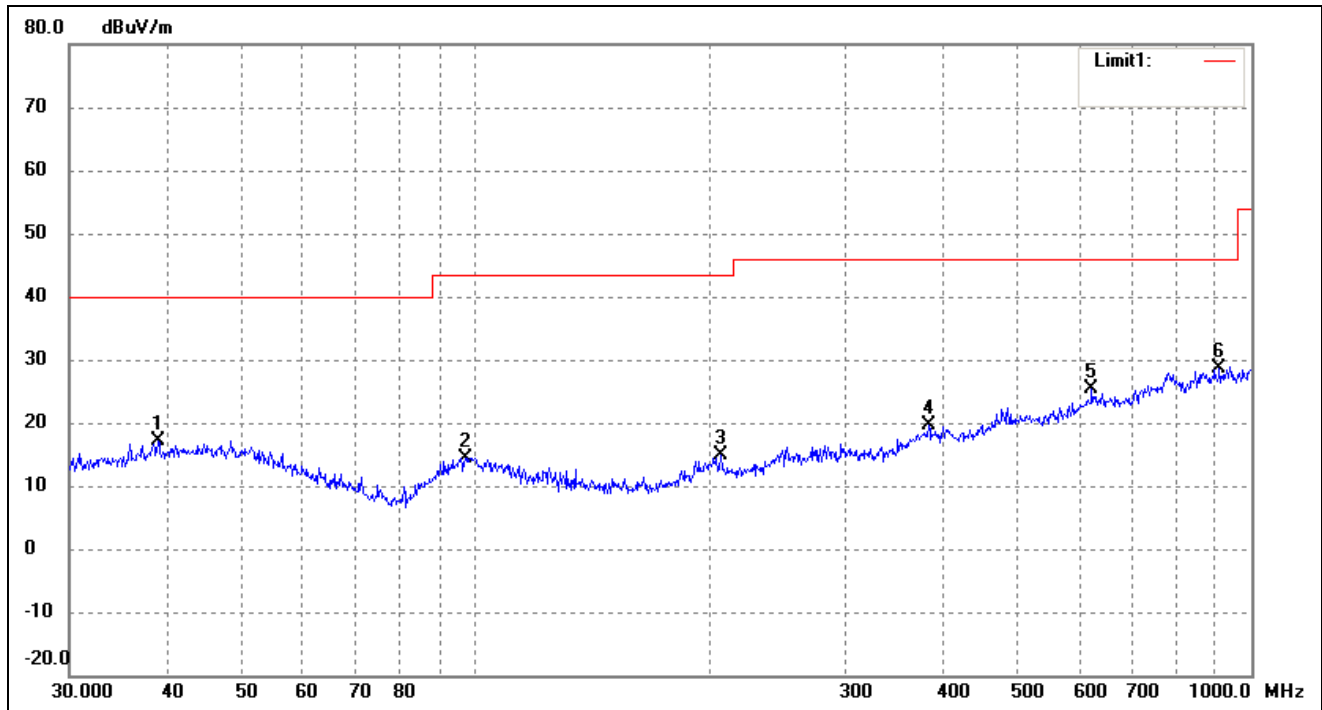
Comment: DC 3.8V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	45.3755	28.42	-10.60	17.82	40.00	-22.18	85	100	peak
2	97.7983	27.99	-11.88	16.11	43.50	-27.39	332	100	peak
3	199.2855	26.53	-11.69	14.84	43.50	-28.66	94	100	peak
4	392.0951	26.89	-7.36	19.53	46.00	-26.47	241	100	peak
5	629.4772	27.64	-2.99	24.65	46.00	-21.35	170	100	peak
6	952.0937	26.84	1.85	28.69	46.00	-17.31	142	100	peak

Test Specification: Vertical

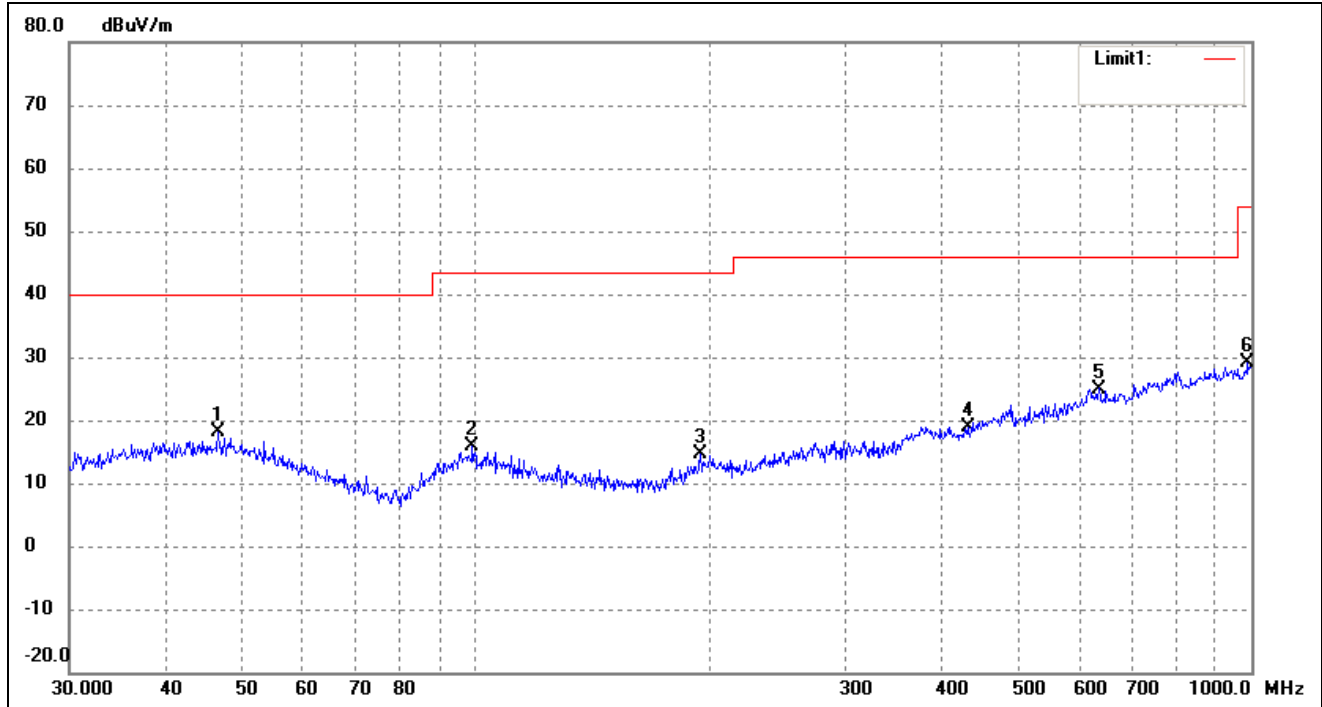


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	39.0245	27.74	-10.63	17.11	40.00	-22.89	305	100	peak
2	97.1148	26.51	-12.04	14.47	43.50	-29.03	154	100	peak
3	207.1226	26.92	-11.92	15.00	43.50	-28.50	97	100	peak
4	383.9318	26.83	-7.12	19.71	46.00	-26.29	299	100	peak
5	622.8900	28.19	-2.85	25.34	46.00	-20.66	197	100	peak
6	909.6667	26.96	1.57	28.53	46.00	-17.47	144	100	peak

Operating Condition: 802.11n HT20 Transmitting

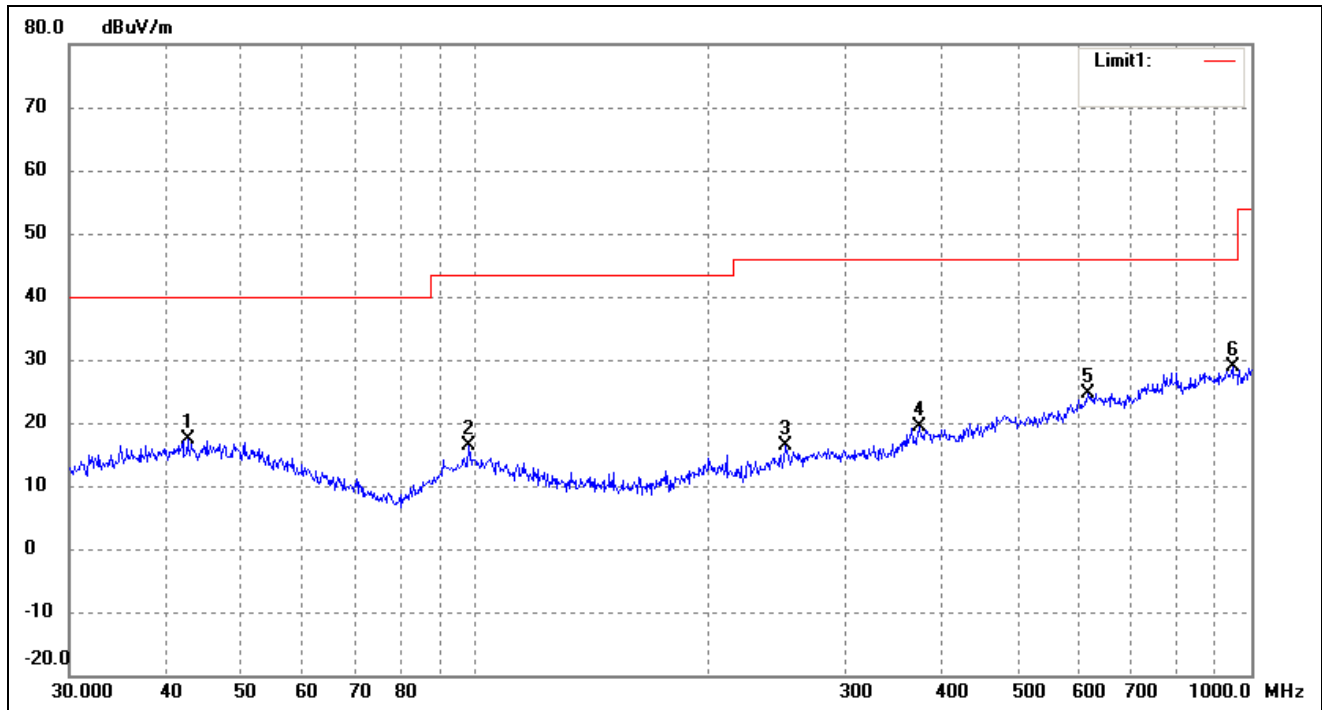
Comment: DC 3.8V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	46.6664	28.70	-10.64	18.06	40.00	-21.94	116	100	peak
2	99.1797	27.36	-11.58	15.78	43.50	-27.72	183	100	peak
3	195.1365	26.81	-12.24	14.57	43.50	-28.93	62	100	peak
4	431.0316	26.56	-7.66	18.90	46.00	-27.10	99	100	peak
5	636.1340	28.12	-3.12	25.00	46.00	-21.00	247	100	peak
6	989.5355	26.91	2.31	29.22	54.00	-24.78	138	100	peak

Test Specification: Vertical

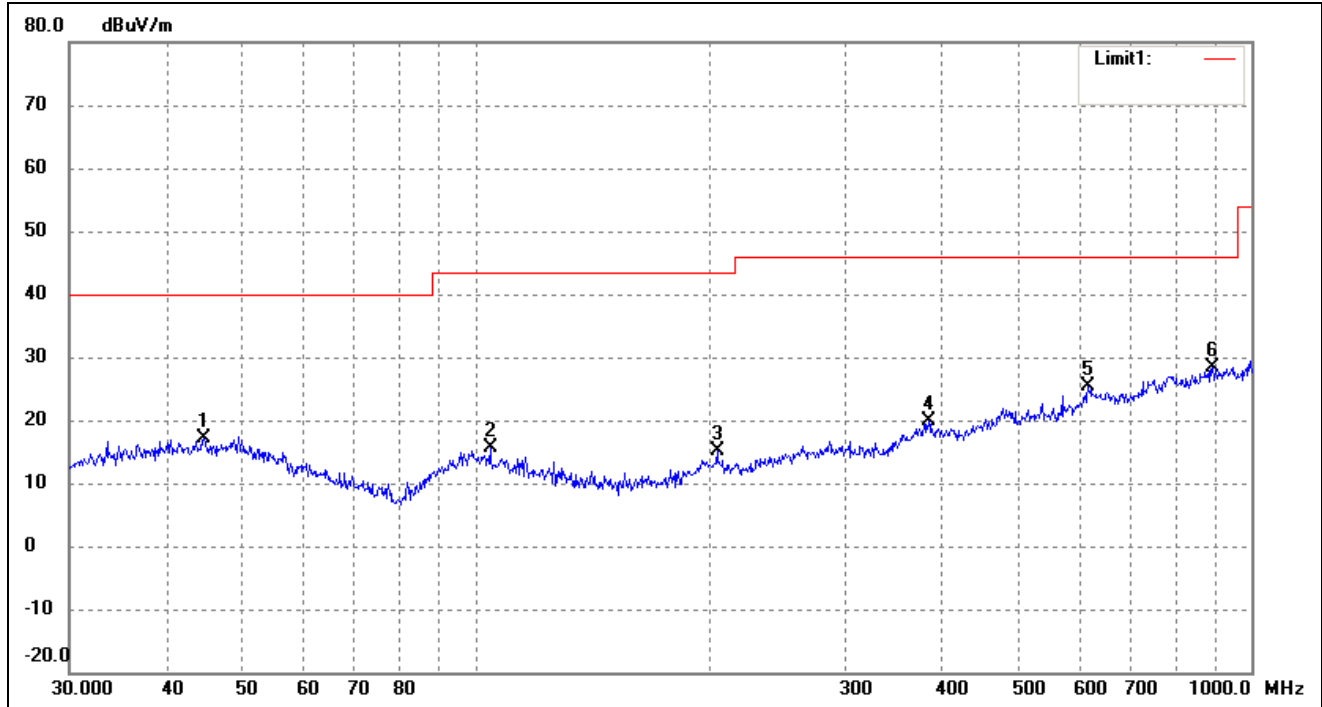


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	42.6000	27.74	-10.43	17.31	40.00	-22.69	88	100	peak
2	98.1419	28.22	-11.81	16.41	43.50	-27.09	186	100	peak
3	251.1804	26.92	-10.45	16.47	46.00	-29.53	88	100	peak
4	373.3112	26.79	-7.30	19.49	46.00	-26.51	121	100	peak
5	616.3718	27.80	-3.07	24.73	46.00	-21.27	110	100	peak
6	945.4399	26.70	2.09	28.79	46.00	-17.21	331	100	peak

Operating Condition: 802.11n HT40 Transmitting

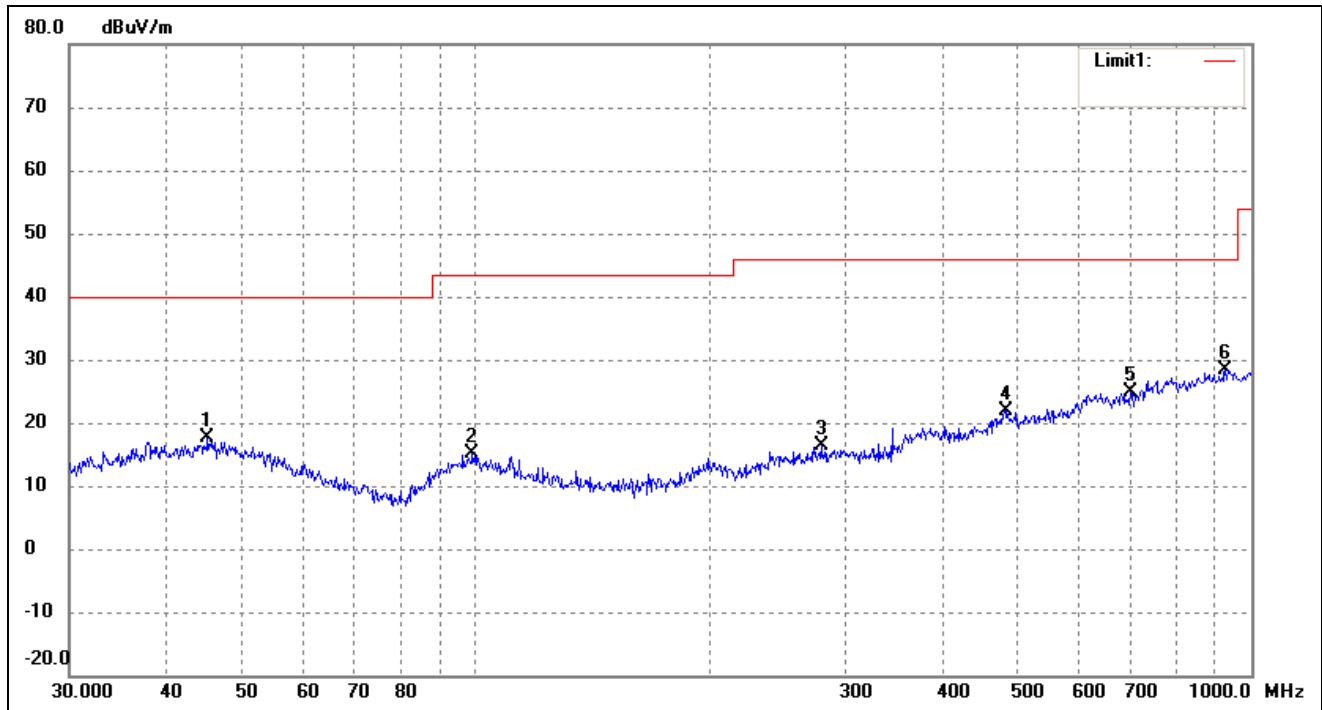
Comment: DC 3.8V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	44.7434	27.61	-10.59	17.02	40.00	-22.98	301	100	peak
2	104.5361	27.52	-11.92	15.60	43.50	-27.90	93	100	peak
3	204.9551	26.88	-11.82	15.06	43.50	-28.44	142	100	peak
4	383.9318	26.95	-7.12	19.83	46.00	-26.17	92	100	peak
5	616.3718	28.41	-3.07	25.34	46.00	-20.66	74	100	peak
6	890.7278	27.04	1.43	28.47	46.00	-17.53	342	100	peak

Test Specification: Vertical



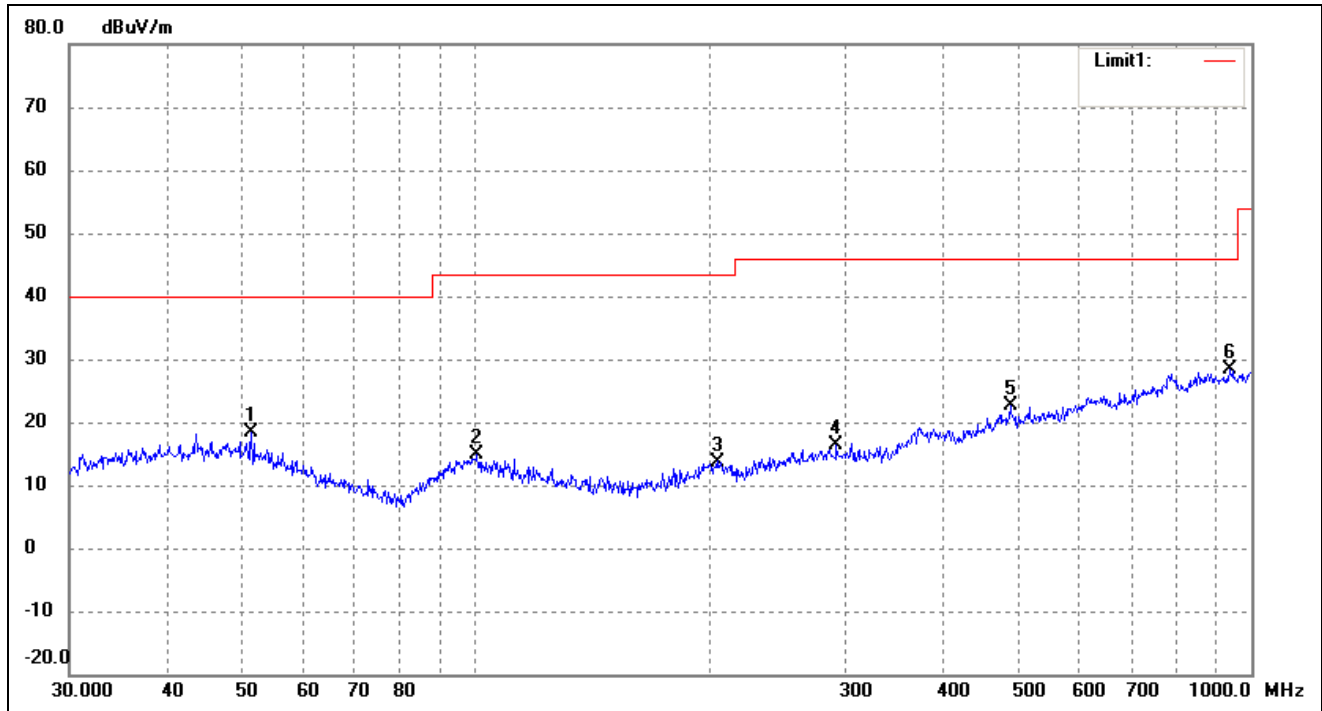
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	45.2166	28.02	-10.45	17.57	40.00	-22.43	221	100	peak
2	99.1797	26.66	-11.58	15.08	43.50	-28.42	97	100	peak
3	279.0436	25.96	-9.53	16.43	46.00	-29.57	229	100	peak
4	482.2156	27.27	-5.44	21.83	46.00	-24.17	102	100	peak
5	699.3046	28.34	-3.40	24.94	46.00	-21.06	250	100	peak
6	925.7563	26.54	1.90	28.44	46.00	-17.56	324	100	peak

Antenna B

Plot of Radiated Emissions Test Data (30MHz to 1GHz)

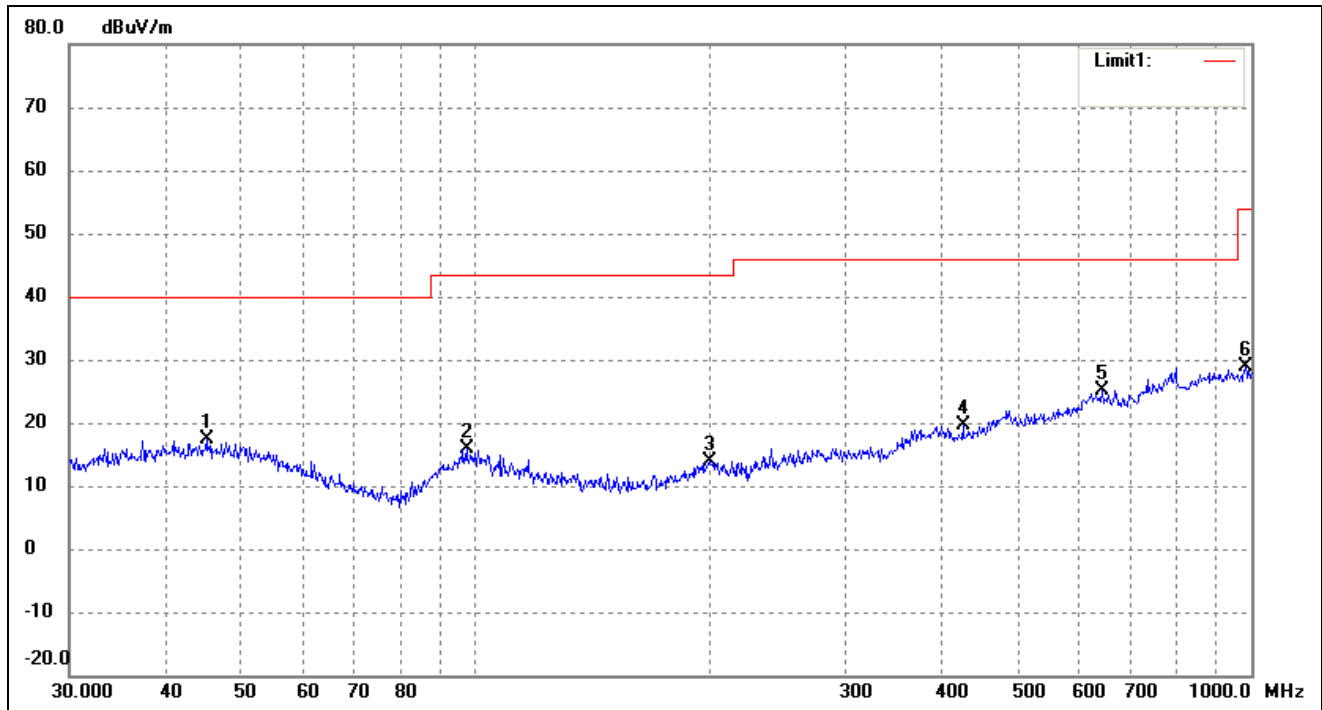
EUT: Tablet PC
Tested Model: 11"TW110
Operating Condition: 802.11b Transmitting
Comment: DC 3.8V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	51.4807	29.33	-10.86	18.47	40.00	-21.53	255	100	peak
2	100.5806	26.31	-11.46	14.85	43.50	-28.65	135	100	peak
3	204.9551	25.57	-11.82	13.75	43.50	-29.75	67	100	peak
4	292.0583	26.07	-9.66	16.41	46.00	-29.59	103	100	peak
5	489.0269	28.46	-5.73	22.73	46.00	-23.27	113	100	peak
6	938.8326	26.07	2.27	28.34	46.00	-17.66	292	100	peak

Test Specification: Vertical

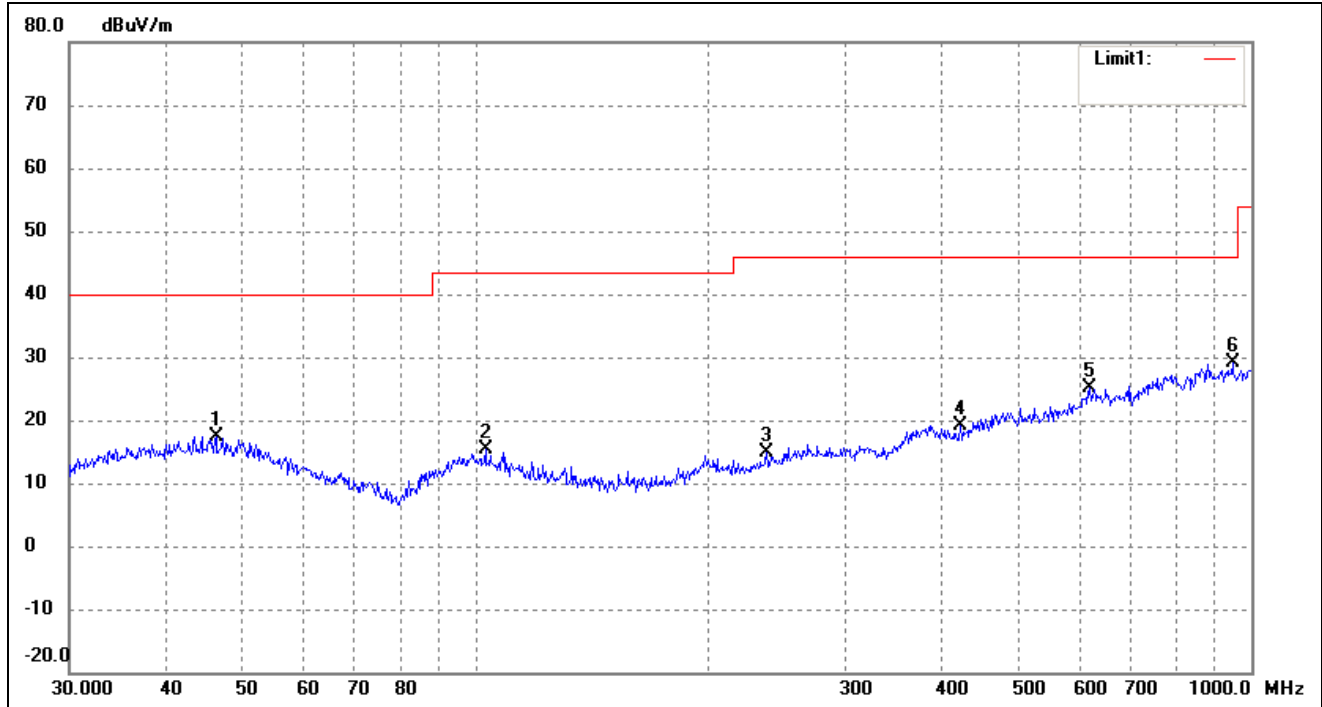


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	45.0583	27.74	-10.45	17.29	40.00	-22.71	116	100	peak
2	97.4560	27.81	-11.97	15.84	43.50	-27.66	114	100	peak
3	200.6881	25.61	-11.63	13.98	43.50	-29.52	92	100	peak
4	425.0280	27.52	-7.80	19.72	46.00	-26.28	176	100	peak
5	642.8613	28.28	-3.27	25.01	46.00	-20.99	127	100	peak
6	982.6200	26.82	2.09	28.91	54.00	-25.09	197	100	peak

Operating Condition: 802.11g Transmitting

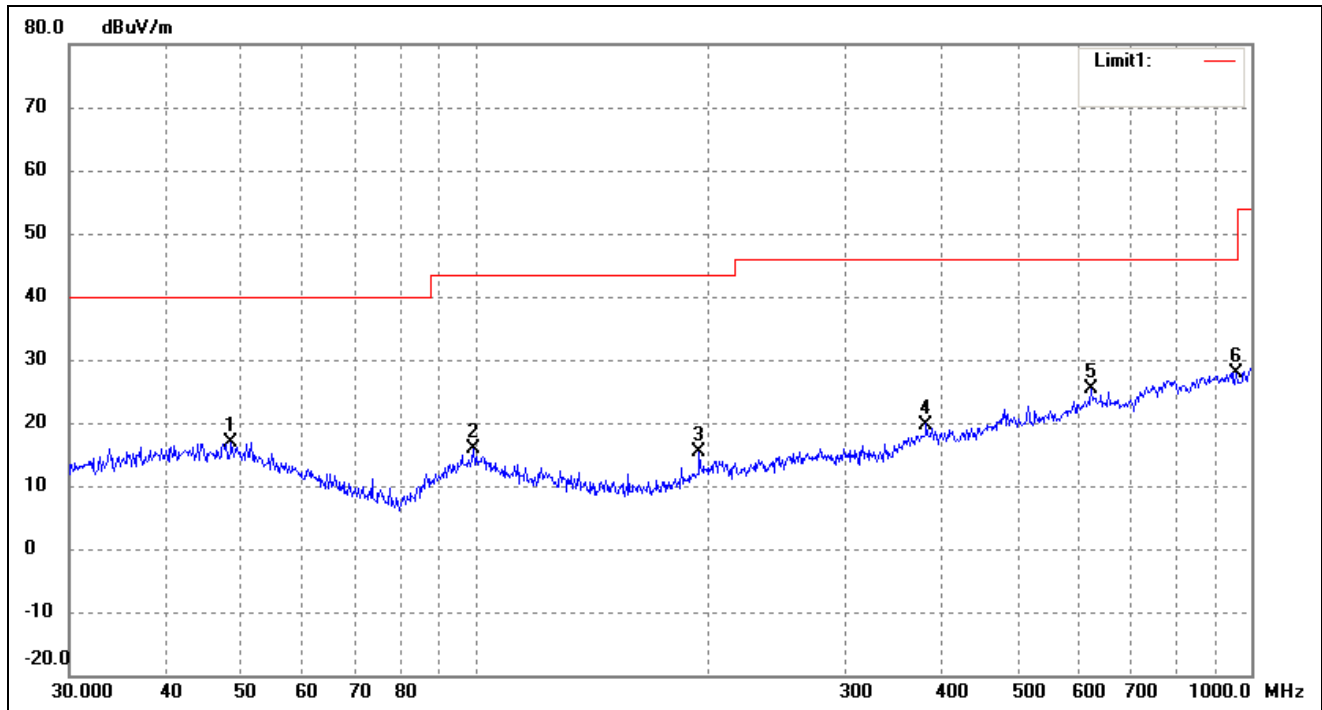
Comment: DC 3.8V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	46.3402	28.10	-10.62	17.48	40.00	-22.52	125	100	peak
2	103.0800	27.01	-11.75	15.26	43.50	-28.24	164	100	peak
3	237.4760	26.08	-11.16	14.92	46.00	-31.08	90	100	peak
4	422.0577	27.08	-7.87	19.21	46.00	-26.79	130	100	peak
5	618.5369	27.92	-2.90	25.02	46.00	-20.98	84	100	peak
6	945.4399	26.95	2.09	29.04	46.00	-16.96	232	100	peak

Test Specification: Vertical

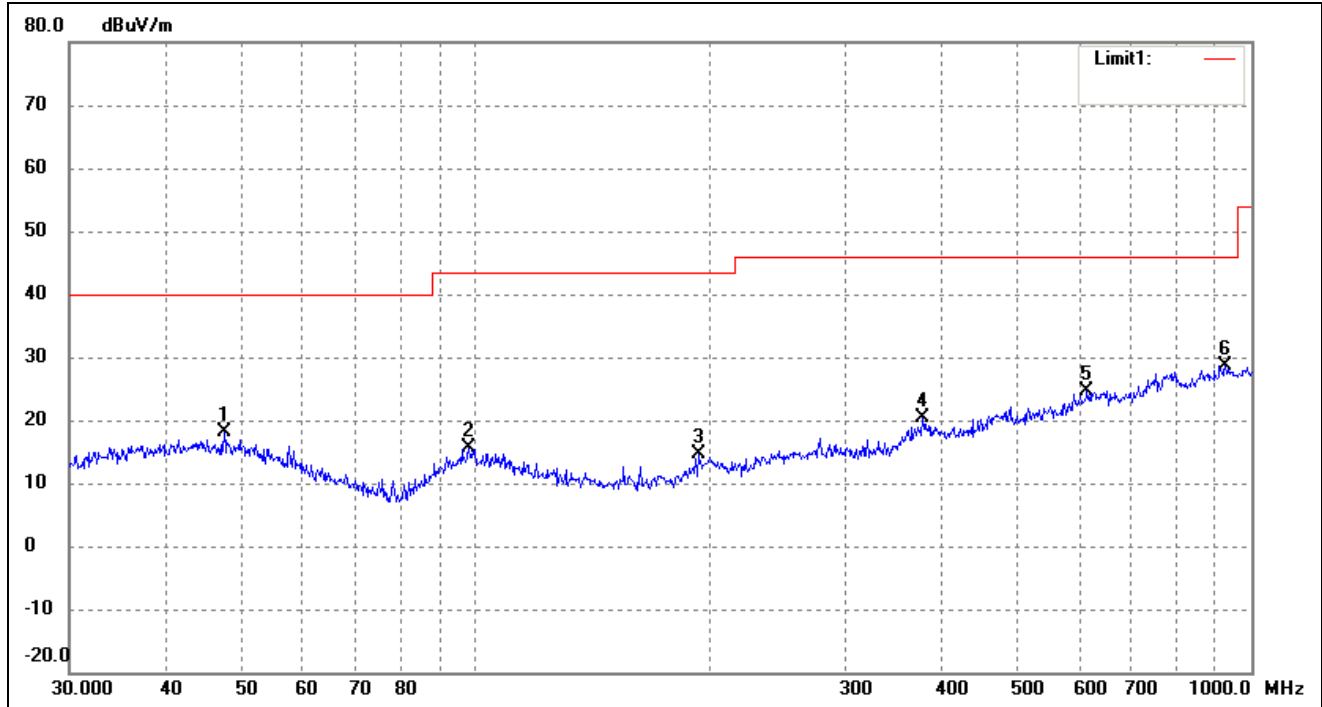


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.5016	27.30	-10.41	16.89	40.00	-23.11	82	100	peak
2	99.5281	27.27	-11.50	15.77	43.50	-27.73	128	100	peak
3	194.4534	27.79	-12.33	15.46	43.50	-28.04	91	100	peak
4	381.2487	26.79	-7.04	19.75	46.00	-26.25	112	100	peak
5	620.7096	28.09	-2.82	25.27	46.00	-20.73	75	100	peak
6	955.4381	26.22	1.72	27.94	46.00	-18.06	298	100	peak

Operating Condition: 802.11n HT20 Transmitting

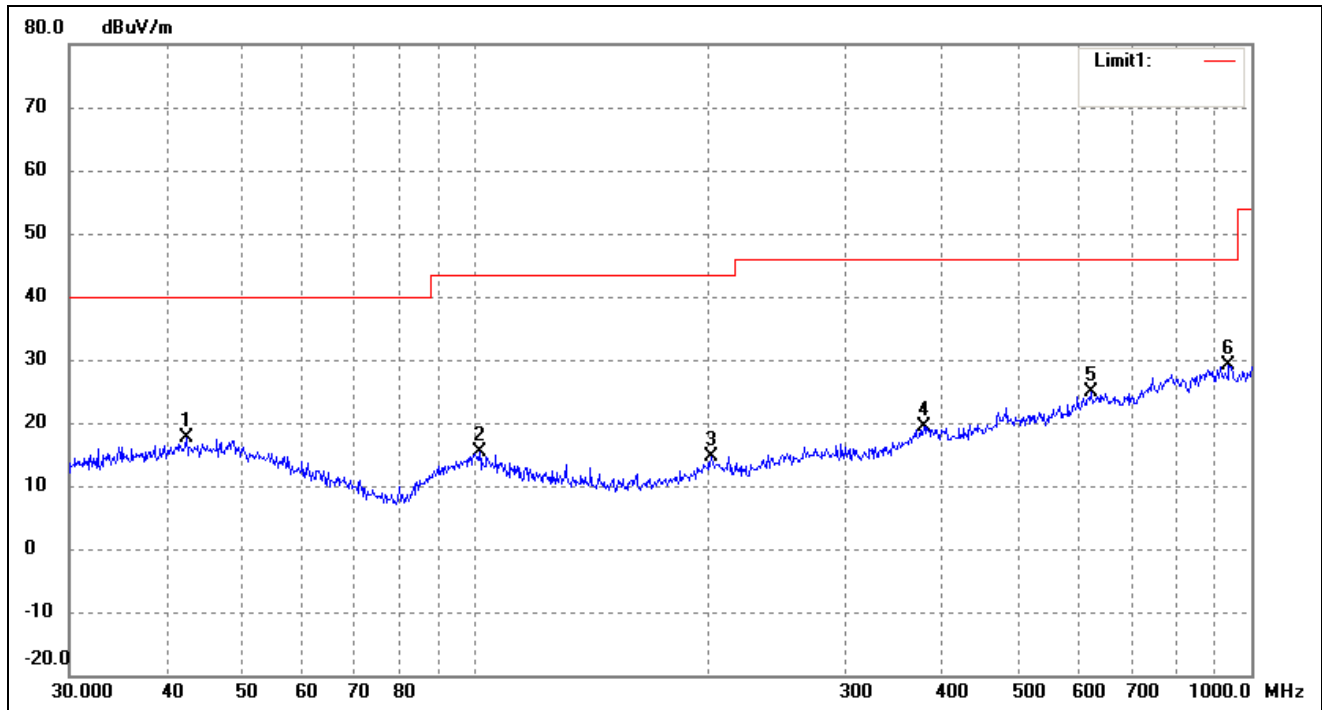
Comment: DC 3.8V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	47.4918	28.70	-10.65	18.05	40.00	-21.95	346	100	peak
2	98.1419	27.40	-11.81	15.59	43.50	-27.91	97	100	peak
3	193.7728	26.98	-12.42	14.56	43.50	-28.94	354	100	peak
4	377.2591	27.48	-7.13	20.35	46.00	-25.65	96	100	peak
5	614.2142	27.85	-3.24	24.61	46.00	-21.39	119	100	peak
6	925.7563	26.69	1.90	28.59	46.00	-17.41	300	100	peak

Test Specification: Vertical

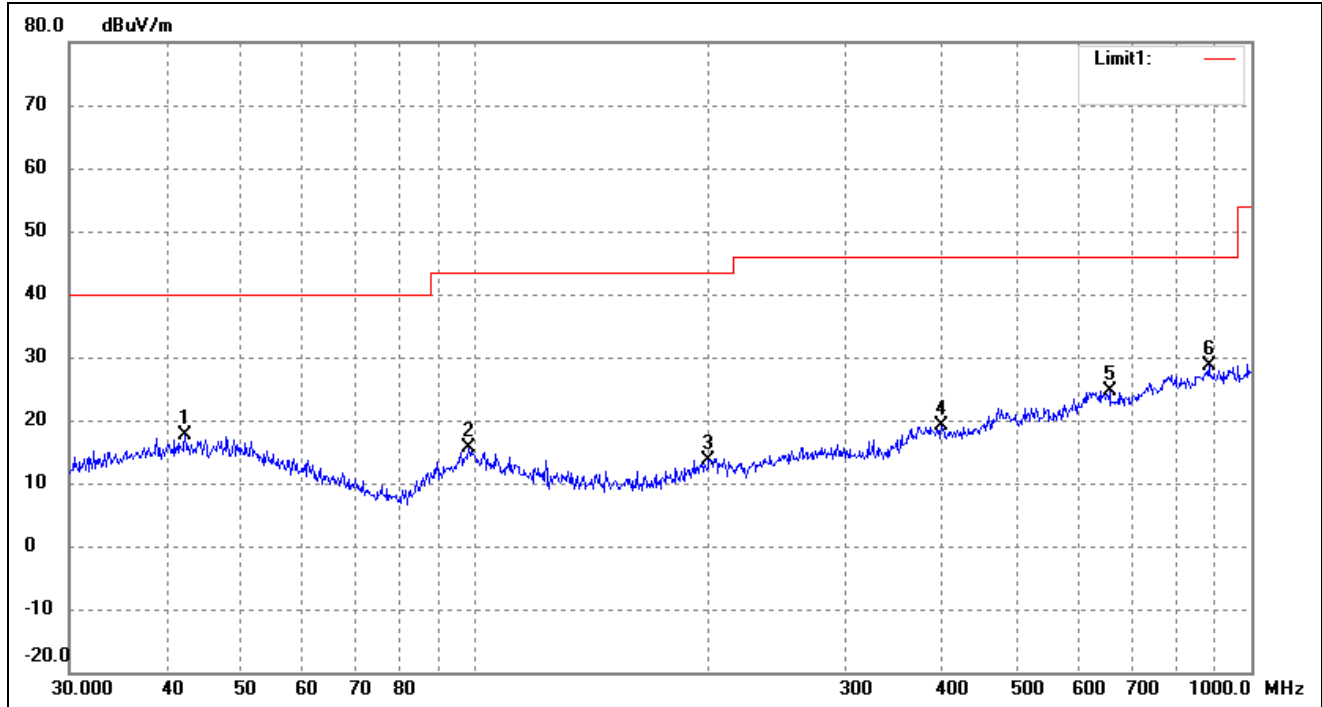


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	42.4508	27.95	-10.43	17.52	40.00	-22.48	326	100	peak
2	101.2885	26.90	-11.55	15.35	43.50	-28.15	100	100	peak
3	201.3930	26.38	-11.66	14.72	43.50	-28.78	349	100	peak
4	378.5843	26.39	-7.06	19.33	46.00	-26.67	121	100	peak
5	620.7096	27.58	-2.82	24.76	46.00	-21.24	359	100	peak
6	935.5463	26.87	2.18	29.05	46.00	-16.95	100	100	peak

Operating Condition: 802.11n HT40 Transmitting

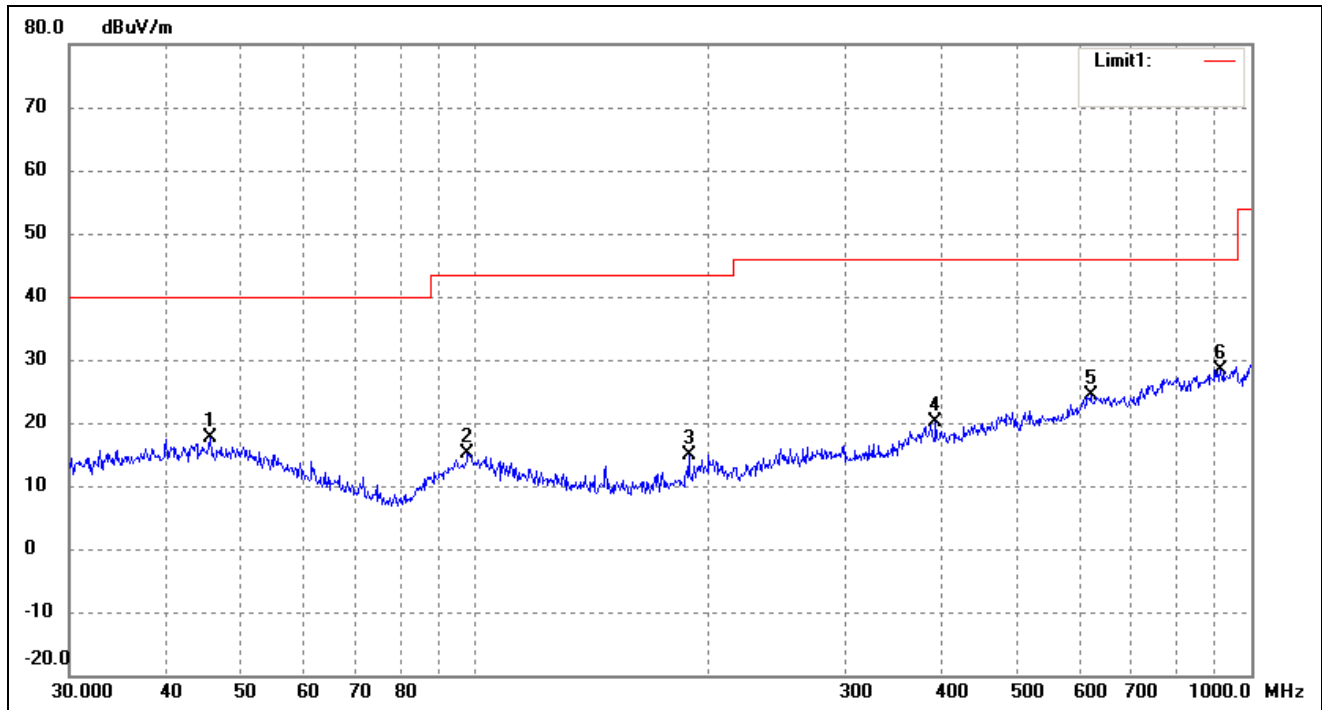
Comment: DC 3.8V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	42.3022	28.06	-10.49	17.57	40.00	-22.43	73	100	peak
2	98.1419	27.45	-11.81	15.64	43.50	-27.86	253	100	peak
3	199.9856	25.30	-11.60	13.70	43.50	-29.80	72	100	peak
4	399.0302	26.81	-7.58	19.23	46.00	-26.77	217	100	peak
5	656.5300	28.28	-3.62	24.66	46.00	-21.34	165	100	peak
6	881.4067	27.18	1.48	28.66	46.00	-17.34	342	100	peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	45.5348	28.13	-10.44	17.69	40.00	-22.31	342	100	peak
2	97.7983	27.06	-11.88	15.18	43.50	-28.32	193	100	peak
3	188.4125	28.03	-13.12	14.91	43.50	-28.59	79	100	peak
4	392.0951	27.54	-7.36	20.18	46.00	-25.82	328	100	peak
5	620.7096	27.31	-2.82	24.49	46.00	-21.51	124	100	peak
6	912.8620	26.86	1.63	28.49	46.00	-17.51	169	100	peak

Antenna A

Spurious Emissions Above 1GHz

Test Mode: 802.11b

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.00	65.49	-3.87	61.62	74	-12.38	H	PK
4824.00	48.92	-3.87	45.05	54	-8.95	H	AV
7236.00	56.73	1.14	57.87	74	-16.13	H	PK
7236.00	41.69	1.19	42.88	54	-11.12	H	AV
4824.00	65.82	-3.86	61.96	74	-12.04	V	PK
4824.00	48.36	-3.86	44.5	54	-9.5	V	AV
7236.00	55.72	1.1	56.82	74	-17.18	V	PK
7236.00	42.03	1.1	43.13	54	-10.87	V	AV
Middle Channel-2437MHz							
4874.00	66.58	-3.74	62.84	74	-11.16	H	PK
4874.00	48.57	-3.74	44.83	54	-9.17	H	AV
7311.00	55.99	1.47	57.46	74	-16.54	H	PK
7311.00	41.36	1.47	42.83	54	-11.17	H	AV
4874.00	66.21	-3.74	62.47	74	-11.53	V	PK
4874.00	48.07	-3.74	44.33	54	-9.67	V	AV
7311.00	55.73	1.47	57.2	74	-16.8	V	PK
7311.00	41.95	1.47	43.42	54	-10.58	V	AV
High Channel-2462MHz							
4924.00	64.38	-3.59	60.79	74	-13.21	H	PK
4924.00	48.03	-3.59	44.44	54	-9.56	H	AV
7386.00	55.97	1.79	57.76	74	-16.24	H	PK
7386.00	41.28	1.79	43.07	54	-10.93	H	AV
4924.00	63.87	-3.59	60.28	74	-13.72	V	PK
4924.00	47.95	-3.59	44.36	54	-9.64	V	AV
7386.00	55.64	1.79	57.43	74	-16.57	V	PK
7386.00	41.28	1.79	43.07	54	-10.93	V	AV

Test Mode: 802.11g

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.00	65.02	-3.87	61.15	74	-12.85	H	PK
4824.00	48.33	-3.87	44.46	54	-9.54	H	AV
7236.00	57.02	1.14	58.16	74	-15.84	H	PK
7236.00	40.97	1.19	42.16	54	-11.84	H	AV
4824.00	65.96	-3.86	62.1	74	-11.9	V	PK
4824.00	48.97	-3.86	45.11	54	-8.89	V	AV
7236.00	56.04	1.1	57.14	74	-16.86	V	PK
7236.00	42.59	1.1	43.69	54	-10.31	V	AV
Middle Channel-2437MHz							
4874.00	66.93	-3.74	63.19	74	-10.81	H	PK
4874.00	49.87	-3.74	46.13	54	-7.87	H	AV
7311.00	56.04	1.47	57.51	74	-16.49	H	PK
7311.00	42.58	1.47	44.05	54	-9.95	H	AV
4874.00	67.02	-3.74	63.28	74	-10.72	V	PK
4874.00	48.05	-3.74	44.31	54	-9.69	V	AV
7311.00	56.31	1.47	57.78	74	-16.22	V	PK
7311.00	42.25	1.47	43.72	54	-10.28	V	AV
High Channel-2462MHz							
4924.00	64.62	-3.59	61.03	74	-12.97	H	PK
4924.00	48.19	-3.59	44.6	54	-9.4	H	AV
7386.00	56.34	1.79	58.13	74	-15.87	H	PK
7386.00	43.75	1.79	45.54	54	-8.46	H	AV
4924.00	64.89	-3.59	61.3	74	-12.7	V	PK
4924.00	47.52	-3.59	43.93	54	-10.07	V	AV
7386.00	57.12	1.79	58.91	74	-15.09	V	PK
7386.00	42.45	1.79	44.24	54	-9.76	V	AV

Test Mode: 802.11n-HT20

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.00	63.37	-3.87	59.5	74	-14.5	H	PK
4824.00	46.94	-3.87	43.07	54	-10.93	H	AV
7236.00	54.15	1.14	55.29	74	-18.71	H	PK
7236.00	42.4	1.19	43.59	54	-10.41	H	AV
4824.00	63.92	-3.86	60.06	74	-13.94	V	PK
4824.00	47.38	-3.86	43.52	54	-10.48	V	AV
7236.00	54.17	1.1	55.27	74	-18.73	V	PK
7236.00	43.26	1.1	44.36	54	-9.64	V	AV
Middle Channel-2437MHz							
4874.00	63.71	-3.74	59.97	74	-14.03	H	PK
4874.00	47.04	-3.74	43.3	54	-10.7	H	AV
7311.00	54.71	1.47	56.18	74	-17.82	H	PK
7311.00	42.33	1.47	43.8	54	-10.2	H	AV
4874.00	63.72	-3.74	59.98	74	-14.02	V	PK
4874.00	46.68	-3.74	42.94	54	-11.06	V	AV
7311.00	63.48	1.47	64.95	74	-9.05	V	PK
7311.00	42.97	1.47	44.44	54	-9.56	V	AV
High Channel-2462MHz							
4924.00	63.97	-3.59	60.38	74	-13.62	H	PK
4924.00	47.56	-3.59	43.97	54	-10.03	H	AV
7386.00	55.04	1.79	56.83	74	-17.17	H	PK
7386.00	47.59	1.79	49.38	54	-4.62	H	AV
4924.00	63.01	-3.59	59.42	74	-14.58	V	PK
4924.00	47.28	-3.59	43.69	54	-10.31	V	AV
7386.00	54.95	1.79	56.74	74	-17.26	V	PK
7386.00	42.86	1.79	44.65	54	-9.35	V	AV

Test Mode: 802.11n-HT40

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2422MHz							
4844.00	61.37	-3.9	57.47	74	-16.53	H	PK
4824.00	45.27	-3.9	41.37	54	-12.63	H	AV
7266.00	54.15	1.06	55.21	74	-18.79	H	PK
7266.00	41.23	1.06	42.29	54	-11.71	H	AV
4844.00	61.36	-3.9	57.46	74	-16.54	V	PK
4824.00	46.38	-3.9	42.48	54	-11.52	V	AV
7266.00	54.17	1.06	55.23	74	-18.77	V	PK
7266.00	41.26	1.06	42.32	54	-11.68	V	AV
Middle Channel-2437MHz							
4874.00	61.71	-3.74	57.97	74	-16.03	H	PK
4874.00	45.04	-3.74	41.3	54	-12.7	H	AV
7311.00	54.71	1.47	56.18	74	-17.82	H	PK
7311.00	41.33	1.47	42.8	54	-11.2	H	AV
4874.00	61.72	-3.74	57.98	74	-16.02	V	PK
4874.00	46.38	-3.74	42.64	54	-11.36	V	AV
7311.00	54.48	1.47	55.95	74	-18.05	V	PK
7311.00	40.97	1.47	42.44	54	-11.56	V	AV
High Channel-2452MHz							
4904.00	60.97	-3.63	57.34	74	-16.66	H	PK
4904.00	45.56	-3.63	41.93	54	-12.07	H	AV
7356.00	55.04	1.62	56.66	74	-17.34	H	PK
7356.00	42.59	1.62	44.21	54	-9.79	H	AV
4904.00	60.65	-3.63	57.02	74	-16.98	V	PK
4904.00	45.28	-3.63	41.65	54	-12.35	V	AV
7356.00	54.95	1.62	56.57	74	-17.43	V	PK
7356.00	42.86	1.62	44.48	54	-9.52	V	AV

Note: Testing is carried out with frequency rang 9kHz 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.

Antenna B

Spurious Emissions Above 1GHz

Test Mode: 802.11b

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.00	64.94	-3.87	61.07	74	-12.93	H	PK
4824.00	47.02	-3.87	43.15	54	-10.85	H	AV
7236.00	56.36	1.14	57.5	74	-16.5	H	PK
7236.00	42.31	1.19	43.5	54	-10.5	H	AV
4824.00	64.82	-3.86	60.96	74	-13.04	V	PK
4824.00	57.03	-3.86	53.17	54	-0.83	V	AV
7236.00	56.51	1.1	57.61	74	-16.39	V	PK
7236.00	43.15	1.1	44.25	54	-9.75	V	AV
Middle Channel-2437MHz							
4874.00	65.04	-3.74	61.3	74	-12.7	H	PK
4874.00	46.81	-3.74	43.07	54	-10.93	H	AV
7311.00	56.78	1.47	58.25	74	-15.75	H	PK
7311.00	43.62	1.47	45.09	54	-8.91	H	AV
4874.00	66.55	-3.74	62.81	74	-11.19	V	PK
4874.00	47.74	-3.74	44	54	-10	V	AV
7311.00	56.91	1.47	58.38	74	-15.62	V	PK
7311.00	42.57	1.47	44.04	54	-9.96	V	AV
High Channel-2462MHz							
4924.00	65.27	-3.59	61.68	74	-12.32	H	PK
4924.00	47.17	-3.59	43.58	54	-10.42	H	AV
7386.00	56.12	1.79	57.91	74	-16.09	H	PK
7386.00	42.59	1.79	44.38	54	-9.62	H	AV
4924.00	65.13	-3.59	61.54	74	-12.46	V	PK
4924.00	47.55	-3.59	43.96	54	-10.04	V	AV
7386.00	57.04	1.79	58.83	74	-15.17	V	PK
7386.00	43.25	1.79	45.04	54	-8.96	V	AV

Test Mode: 802.11g

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.00	65.74	-3.87	61.87	74	-12.13	H	PK
4824.00	46.73	-3.87	42.86	54	-11.14	H	AV
7236.00	57.04	1.14	58.18	74	-15.82	H	PK
7236.00	42.53	1.19	43.72	54	-10.28	H	AV
4824.00	65.15	-3.86	61.29	74	-12.71	V	PK
4824.00	46.46	-3.86	42.6	54	-11.4	V	AV
7236.00	47.68	1.1	48.78	74	-25.22	V	PK
7236.00	43.37	1.1	44.47	54	-9.53	V	AV
Middle Channel-2437MHz							
4874.00	66.17	-3.74	62.43	74	-11.57	H	PK
4874.00	47.27	-3.74	43.53	54	-10.47	H	AV
7311.00	56.74	1.47	58.21	74	-15.79	H	PK
7311.00	42.62	1.47	44.09	54	-9.91	H	AV
4874.00	66.09	-3.74	62.35	74	-11.65	V	PK
4874.00	46.97	-3.74	43.23	54	-10.77	V	AV
7311.00	57.18	1.47	58.65	74	-15.35	V	PK
7311.00	43.79	1.47	45.26	54	-8.74	V	AV
High Channel-2462MHz							
4924.00	64.63	-3.59	61.04	74	-12.96	H	PK
4924.00	46.82	-3.59	43.23	54	-10.77	H	AV
7386.00	56.34	1.79	58.13	74	-15.87	H	PK
7386.00	43.52	1.79	45.31	54	-8.69	H	AV
4924.00	64.85	-3.59	61.26	74	-12.74	V	PK
4924.00	46.36	-3.59	42.77	54	-11.23	V	AV
7386.00	46.82	1.79	48.61	74	-25.39	V	PK
7386.00	43.45	1.79	45.24	54	-8.76	V	AV

Test Mode: 802.11n-HT20

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.00	64.37	-3.87	60.5	74	-13.5	H	PK
4824.00	47.94	-3.87	44.07	54	-9.93	H	AV
7236.00	57.15	1.14	58.29	74	-15.71	H	PK
7236.00	43.44	1.19	44.63	54	-9.37	H	AV
4824.00	65.26	-3.86	61.4	74	-12.6	V	PK
4824.00	46.98	-3.86	43.12	54	-10.88	V	AV
7236.00	58.12	1.1	59.22	74	-14.78	V	PK
7236.00	43.26	1.1	44.36	54	-9.64	V	AV
Middle Channel-2437MHz							
4874.00	65.73	-3.74	61.99	74	-12.01	H	PK
4874.00	47.74	-3.74	44	54	-10	H	AV
7311.00	56.71	1.47	58.18	74	-15.82	H	PK
7311.00	42.33	1.47	43.8	54	-10.2	H	AV
4874.00	65.72	-3.74	61.98	74	-12.02	V	PK
4874.00	46.68	-3.74	42.94	54	-11.06	V	AV
7311.00	56.48	1.47	57.95	74	-16.05	V	PK
7311.00	42.97	1.47	44.44	54	-9.56	V	AV
High Channel-2462MHz							
4924.00	63.97	-3.59	60.38	74	-13.62	H	PK
4924.00	47.56	-3.59	43.97	54	-10.03	H	AV
7386.00	56.43	1.79	58.22	74	-15.78	H	PK
7386.00	42.59	1.79	44.38	54	-9.62	H	AV
4924.00	63.01	-3.59	59.42	74	-14.58	V	PK
4924.00	56.98	-3.59	53.39	54	-0.61	V	AV
7386.00	55.95	1.79	57.74	74	-16.26	V	PK
7386.00	42.86	1.79	44.65	54	-9.35	V	AV

Test Mode: 802.11n-HT40

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2422MHz							
4844.00	62.01	-3.9	58.11	74	-15.89	H	PK
4824.00	45.62	-3.9	41.72	54	-12.28	H	AV
7266.00	55.16	1.06	56.22	74	-17.78	H	PK
7266.00	42.51	1.06	43.57	54	-10.43	H	AV
4844.00	61.58	-3.9	57.68	74	-16.32	V	PK
4824.00	46.05	-3.9	42.15	54	-11.85	V	AV
7266.00	55.23	1.06	56.29	74	-17.71	V	PK
7266.00	42.57	1.06	43.63	54	-10.37	V	AV
Middle Channel-2437MHz							
4874.00	62.35	-3.74	58.61	74	-15.39	H	PK
4874.00	45.27	-3.74	41.53	54	-12.47	H	AV
7311.00	55.69	1.47	57.16	74	-16.84	H	PK
7311.00	42.58	1.47	44.05	54	-9.95	H	AV
4874.00	62.63	-3.74	58.89	74	-15.11	V	PK
4874.00	45.28	-3.74	41.54	54	-12.46	V	AV
7311.00	54.67	1.47	56.14	74	-17.86	V	PK
7311.00	41.99	1.47	43.46	54	-10.54	V	AV
High Channel-2452MHz							
4904.00	60.23	-3.63	56.6	74	-17.4	H	PK
4904.00	45.69	-3.63	42.06	54	-11.94	H	AV
7356.00	55.64	1.62	57.26	74	-16.74	H	PK
7356.00	41.09	1.62	42.71	54	-11.29	H	AV
4904.00	60.03	-3.63	56.4	74	-17.6	V	PK
4904.00	45.16	-3.63	41.53	54	-12.47	V	AV
7356.00	55.26	1.62	56.88	74	-17.12	V	PK
7356.00	41.59	1.62	43.21	54	-10.79	V	AV

Note: Testing is carried out with frequency rang 9kHz 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 v04, 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 v04, 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

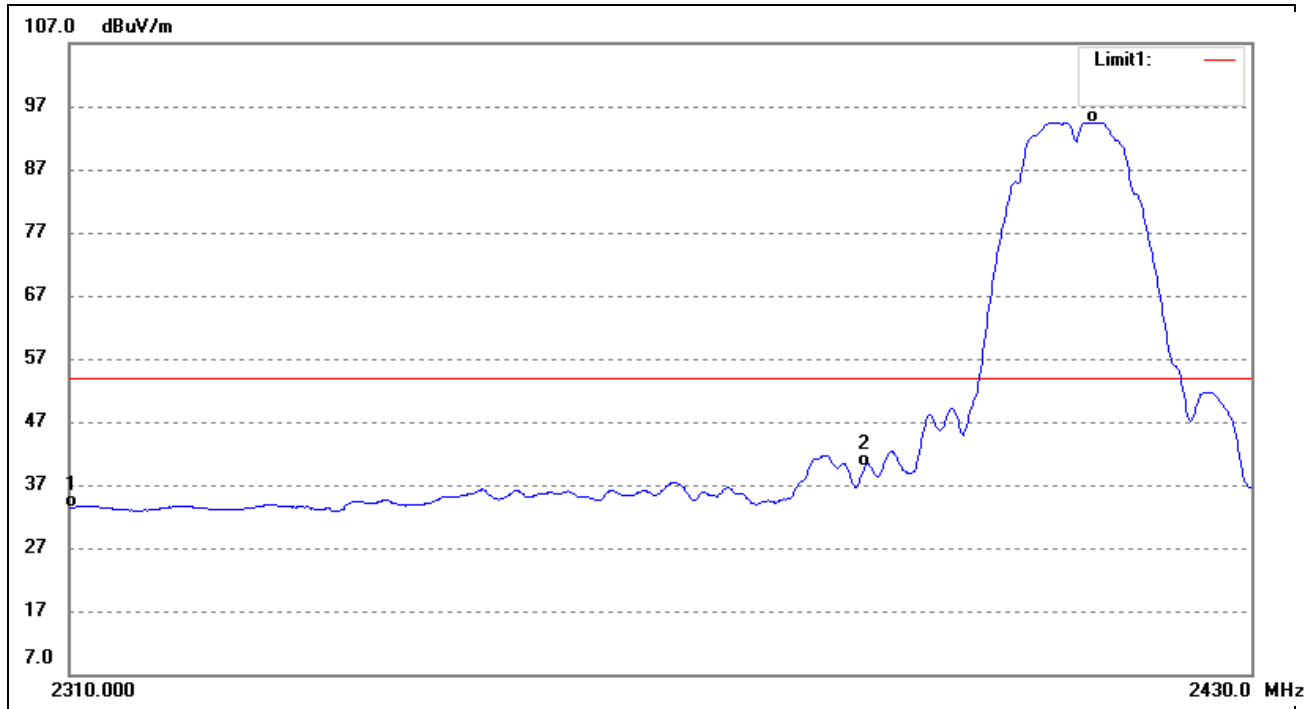
Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

9.4 Summary of Test Results/Plots

Antenna A

802.11b-Lowest Bandedge

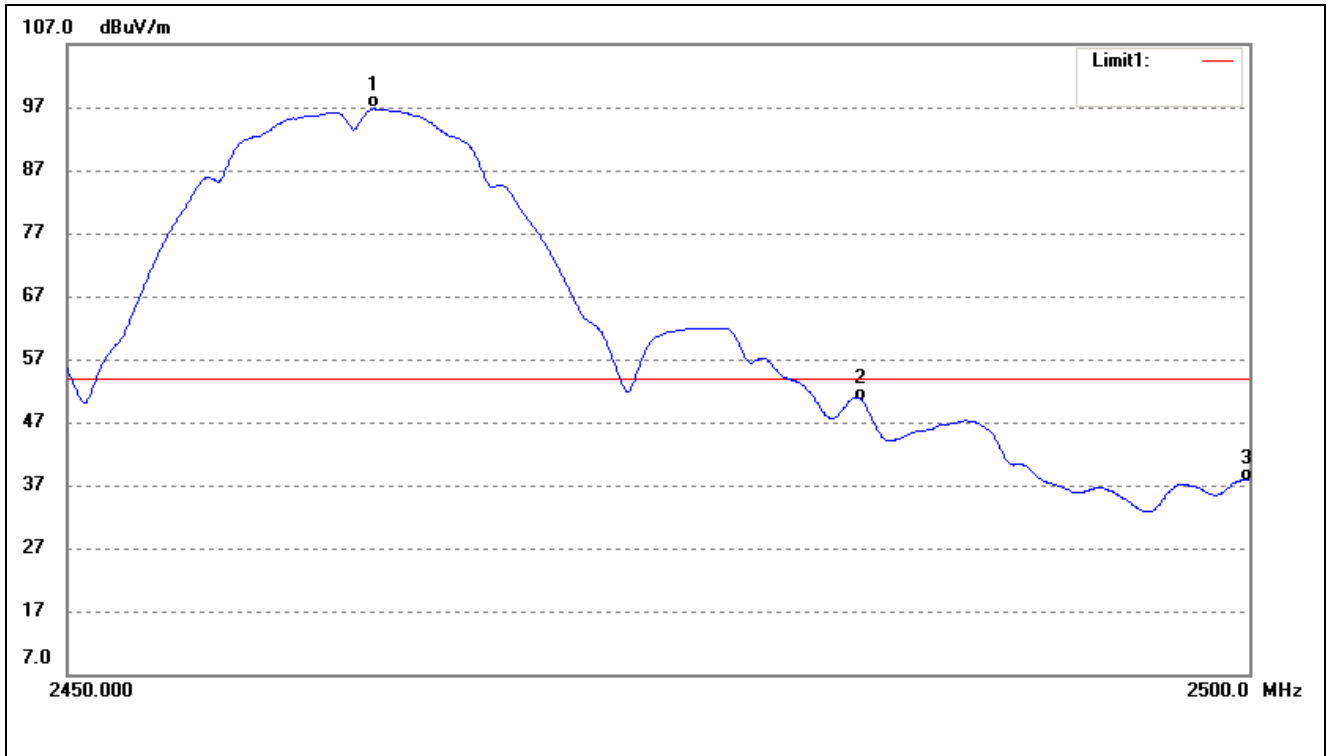
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.00	39.77	-6.38	33.39	54.00	-20.61	Average Detector
	2310.00	53.12	-6.38	46.74	74.00	-27.26	Peak Detector
2	2390.00	47.22	-7.26	39.96	54.00	-14.04	Average Detector
	2390.00	56.85	-7.26	49.59	74.00	-24.41	Peak Detector
3	2413.57	101.88	-7.40	94.48	/	/	Average Detector
	2413.08	107.52	-7.40	100.12	/	/	Peak Detector

802.11b-Highest Bandedge

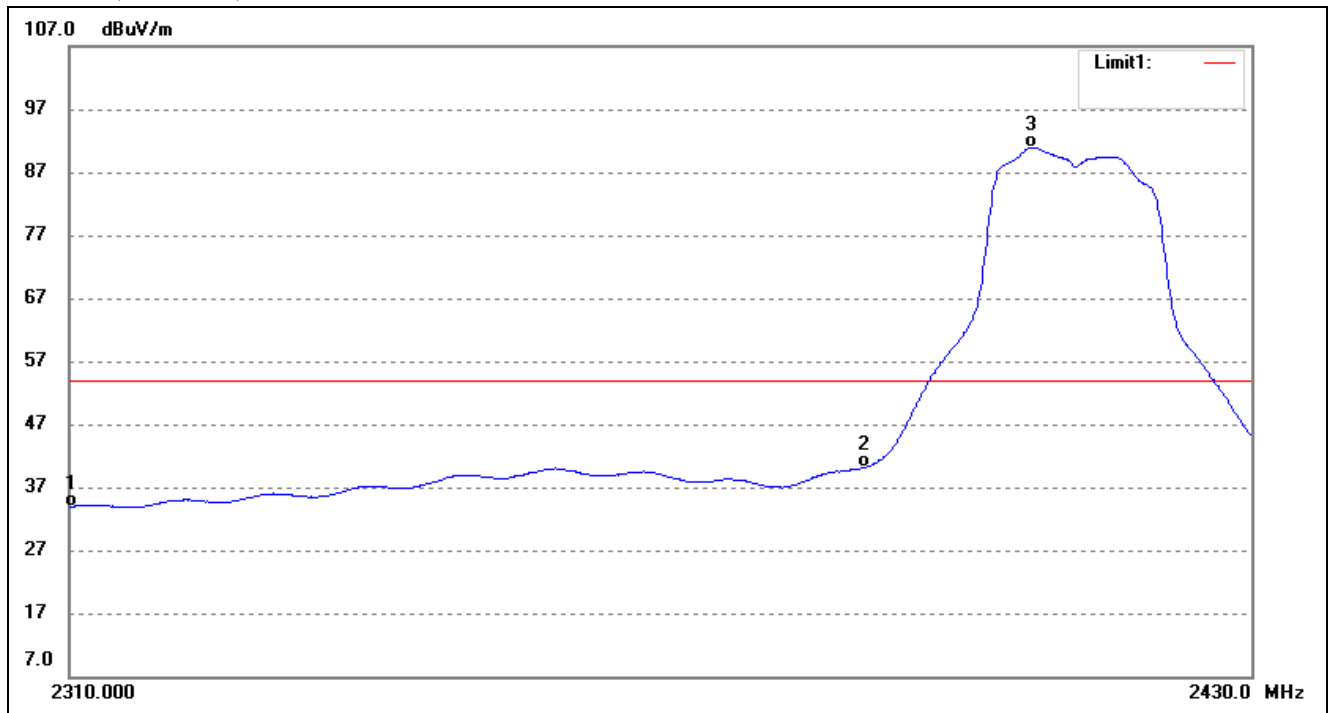
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.85	104.08	-7.31	96.77	/	/	Average Detector
	2463.45	108.56	-7.31	101.25	/	/	Peak Detector
2	2483.50	57.57	-7.28	50.29	54.00	-3.71	Average Detector
	2483.50	62.05	-7.28	54.77	74.00	-19.23	Peak Detector
3	2500.00	44.99	-7.25	37.74	54.00	-16.26	Average Detector
	2500.00	55.80	-7.25	48.55	74.00	-25.45	Peak Detector

802.11g-Lowest Bandedge

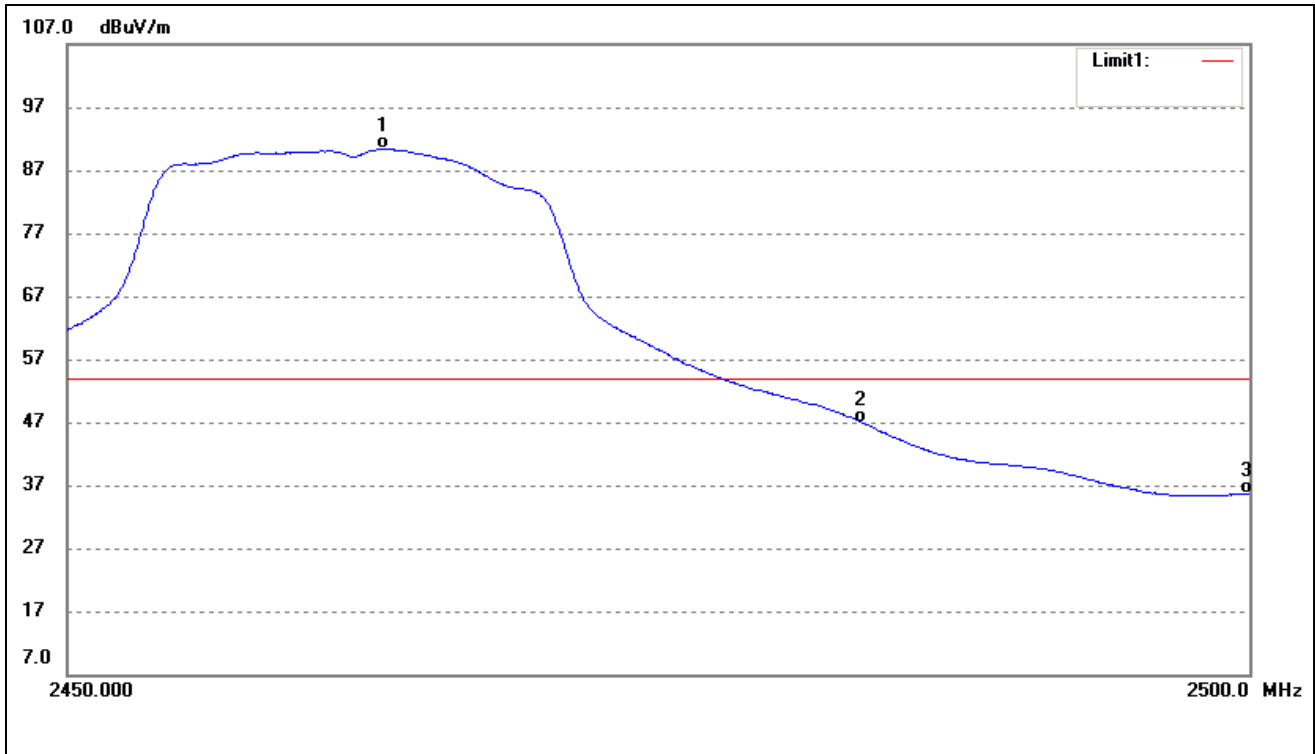
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.00	40.27	-6.38	33.89	54.00	-20.11	Average Detector
	2310.00	53.06	-6.38	46.68	74.00	-27.32	Peak Detector
2	2390.00	47.36	-7.26	40.10	54.00	-13.90	Average Detector
	2390.00	61.16	-7.26	53.90	74.00	-20.10	Peak Detector
3	2407.22	98.36	-7.42	90.94	/	/	Average Detector
	2408.56	108.91	-7.42	101.49	/	/	Peak Detector

802.11g-Highest Bandedge

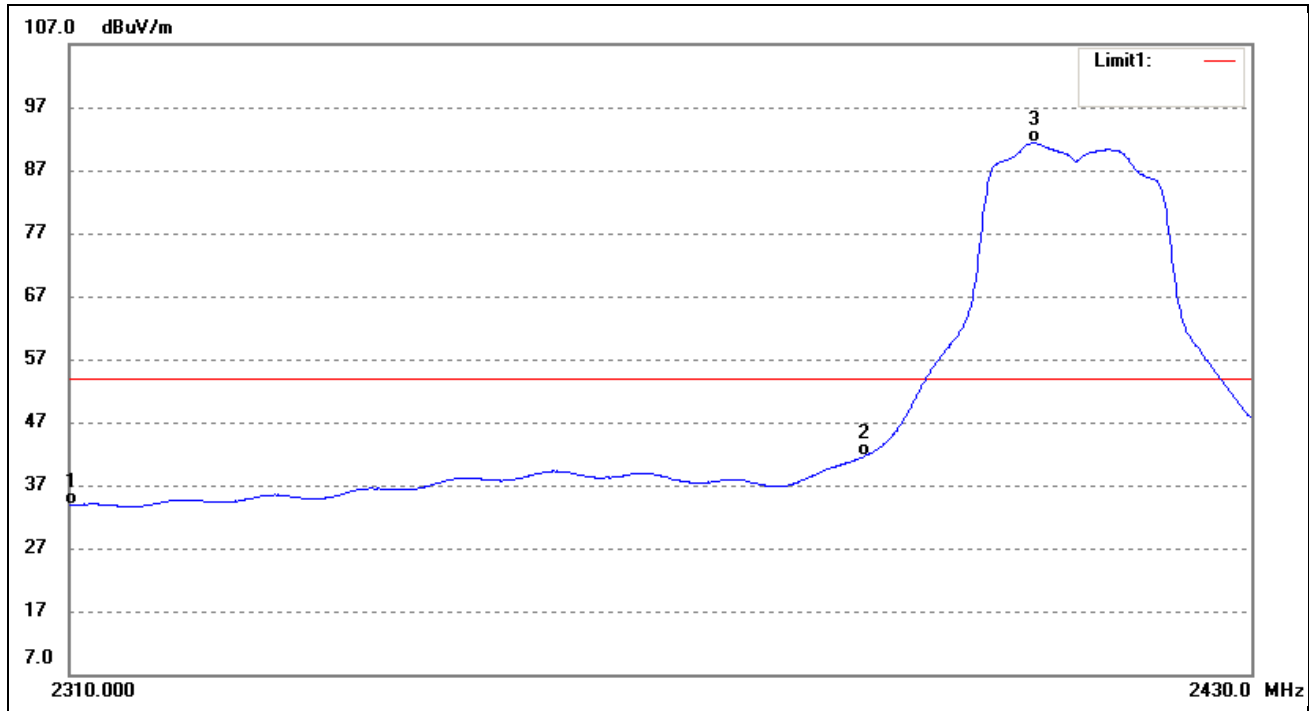
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.25	97.66	-7.31	90.35	/	/	Average Detector
	2463.50	107.69	-7.31	100.38	/	/	Peak Detector
2	2483.50	54.10	-7.28	46.82	54.00	-7.18	Average Detector
	2483.50	71.66	-7.28	64.38	74.00	-9.62	Peak Detector
3	2500.00	42.83	-7.25	35.58	54.00	-18.42	Average Detector
	2500.00	57.71	-7.25	50.46	74.00	-23.54	Peak Detector

802.11n-HT20-Lowest Bandedge

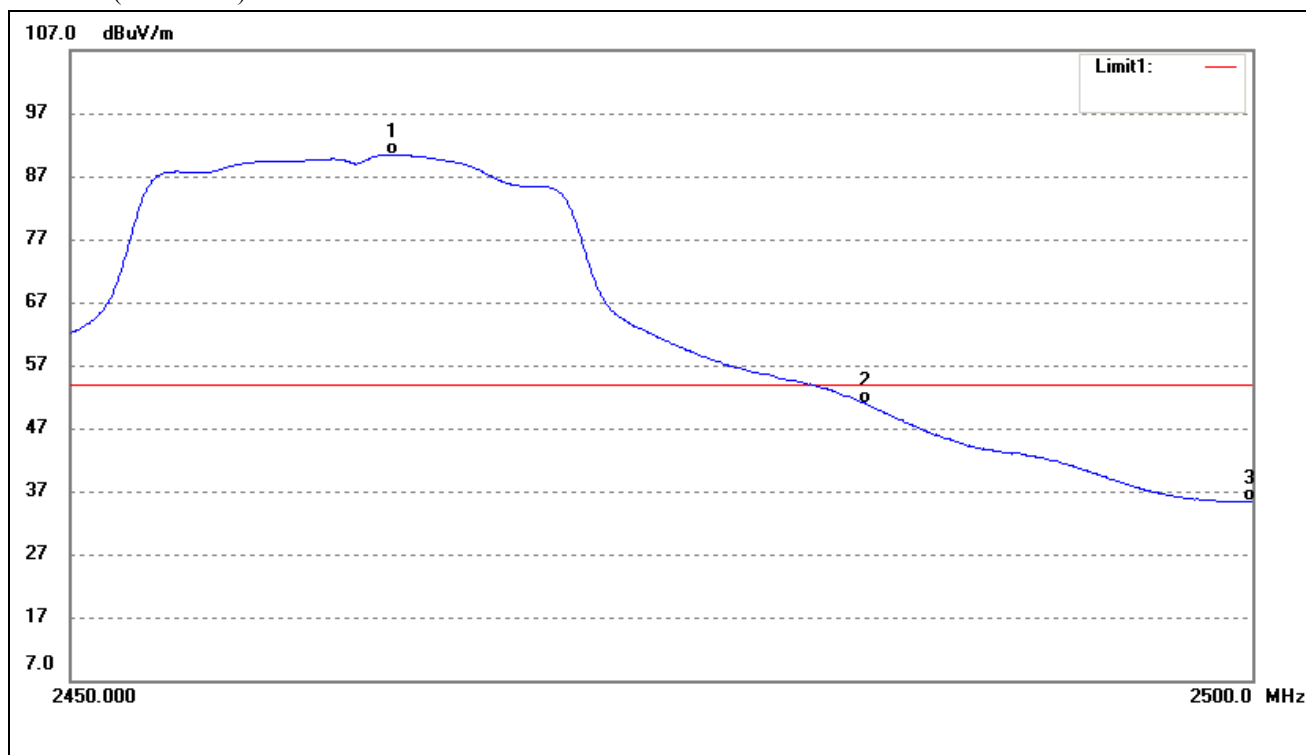
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.00	40.16	-6.38	33.78	54.00	-20.22	Average Detector
	2310.00	53.58	-6.38	47.20	74.00	-26.80	Peak Detector
2	2390.00	48.94	-7.26	41.68	54.00	-12.32	Average Detector
	2390.00	63.86	-7.26	56.60	74.00	-17.40	Peak Detector
3	2407.46	98.76	-7.42	91.34	/	/	Average Detector
	2407.71	108.47	-7.42	101.05	/	/	Peak Detector

802.11n-HT20-Highest Bandedge

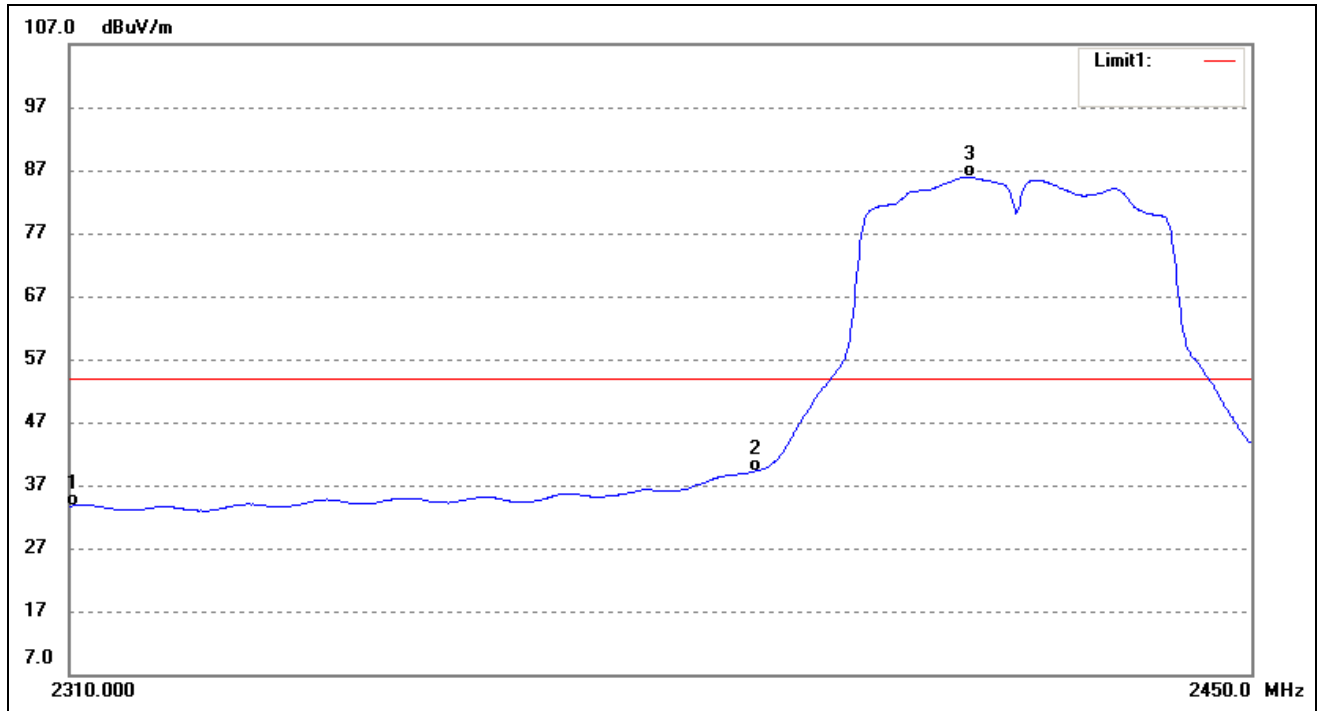
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.55	97.79	-7.31	90.48	/	/	Average Detector
	2463.65	107.61	-7.31	100.30	/	/	Peak Detector
2	2483.50	58.25	-7.28	50.97	54.00	-3.03	Average Detector
	2483.50	74.36	-7.28	67.08	74.00	-6.92	Peak Detector
3	2500.00	42.53	-7.25	35.28	54.00	-18.72	Average Detector
	2500.00	59.70	-7.25	52.45	74.00	-21.55	Peak Detector

802.11n-HT40-Lowest Bandedge

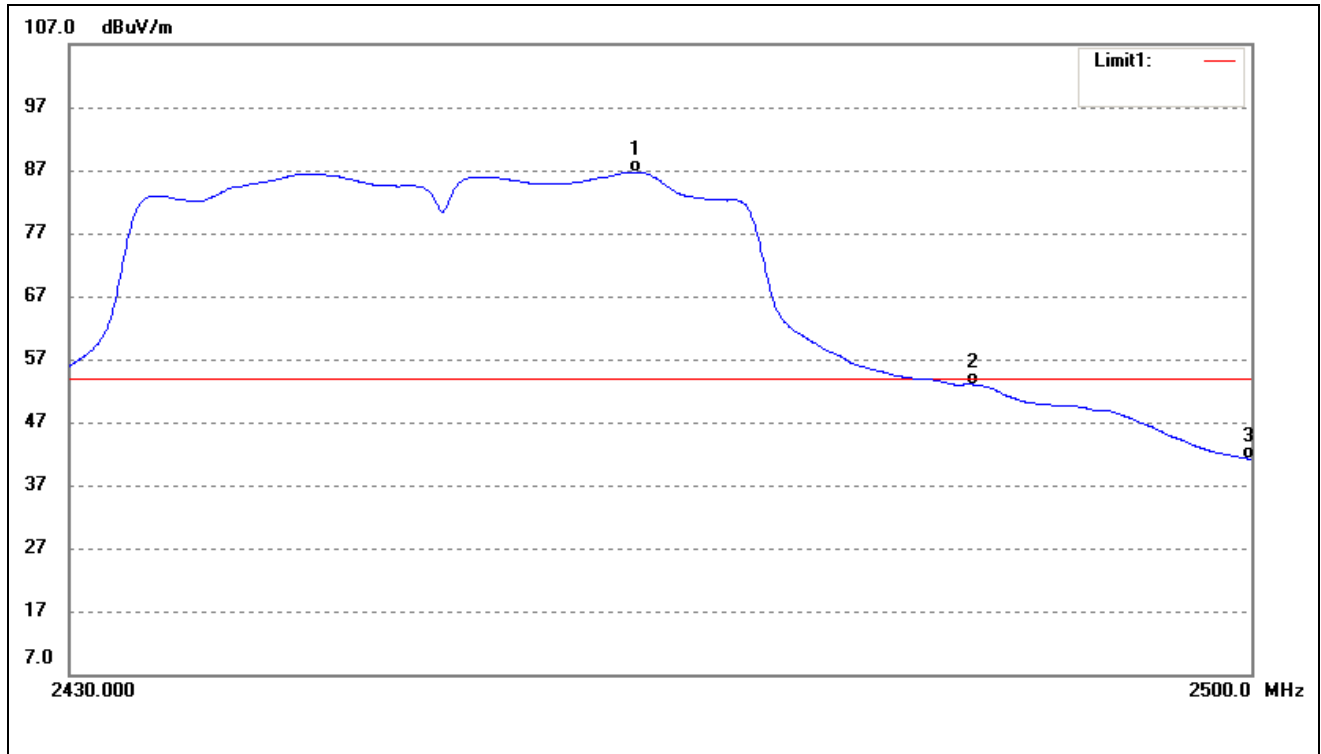
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.00	40.05	-6.38	33.67	54.00	-20.33	Average Detector
	2310.00	52.33	-6.38	45.95	74.00	-28.05	Peak Detector
2	2390.00	46.49	-7.26	39.23	54.00	-14.77	Average Detector
	2390.00	60.62	-7.26	53.36	74.00	-20.64	Peak Detector
3	2415.93	93.29	-7.39	85.90	/	/	Average Detector
	2424.62	103.92	-7.38	96.54	/	/	Peak Detector

802.11n-HT40-Highest Bandedge

Vertical (Worst case)

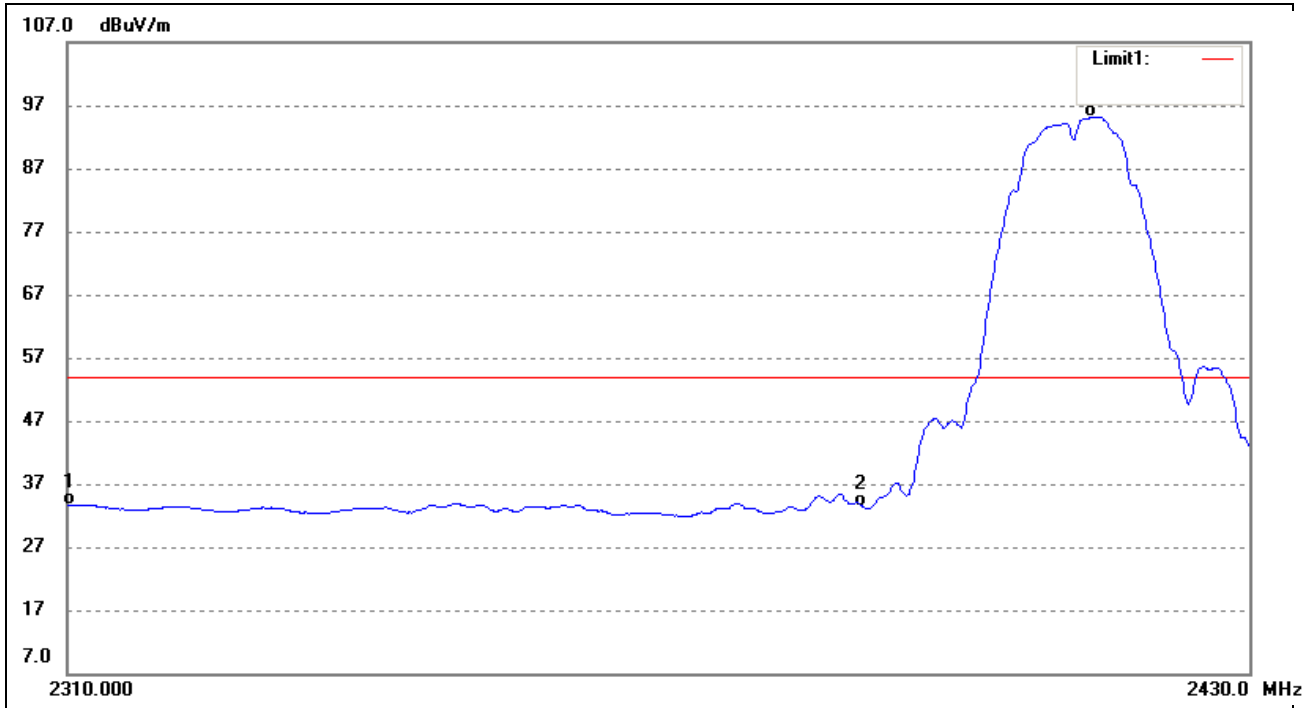


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.28	94.03	-7.31	86.72	/	/	Average Detector
	2463.00	104.24	-7.31	96.93	/	/	Peak Detector
2	2483.50	60.24	-7.28	52.96	54.00	-1.04	Average Detector
	2483.50	73.05	-7.28	65.77	74.00	-8.23	Peak Detector
3	2500.00	48.35	-7.25	41.10	54.00	-12.90	Average Detector
	2500.00	61.75	-7.25	54.50	74.00	-19.50	Peak Detector

Antenna B

802.11b-Lowest Bandedge

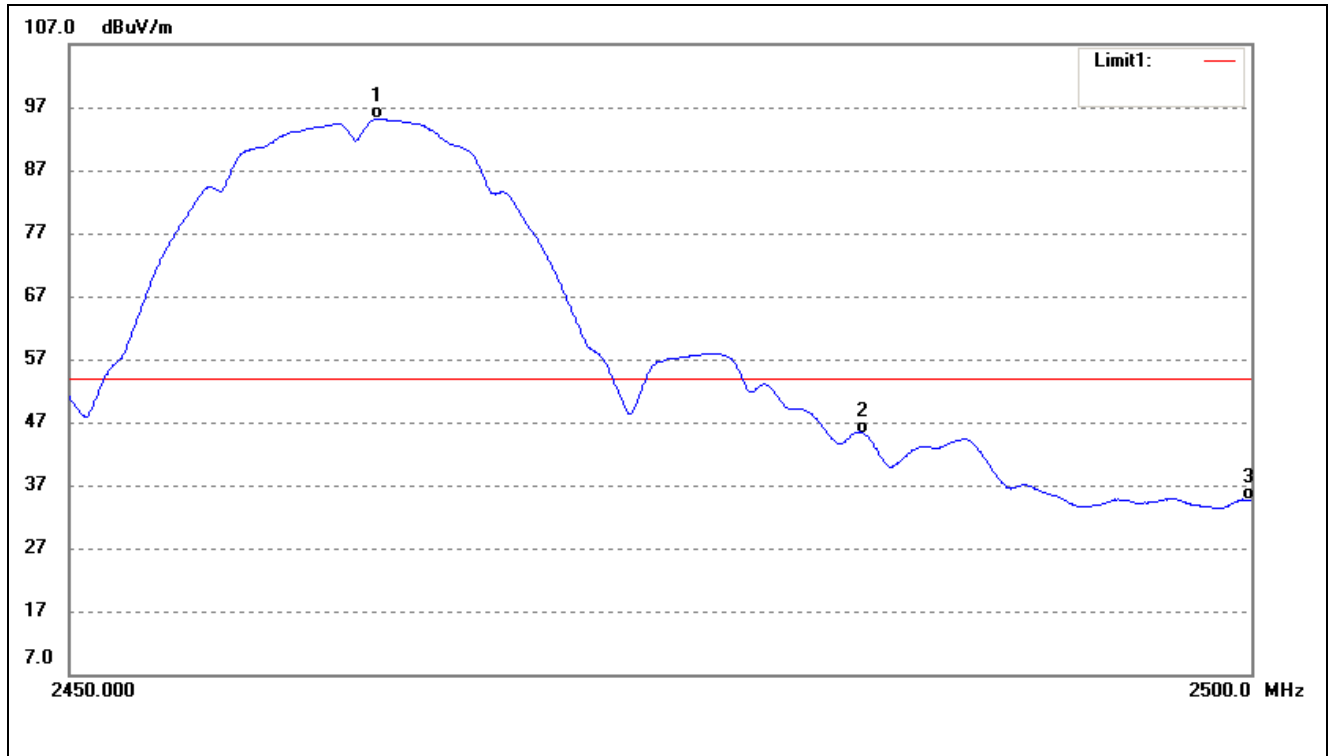
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.00	39.91	-6.38	33.53	54.00	-20.47	Average Detector
	2310.00	52.00	-6.38	45.62	74.00	-28.38	Peak Detector
2	2390.00	40.67	-7.26	33.41	54.00	-20.59	Average Detector
	2390.00	52.51	-7.26	45.25	74.00	-28.75	Peak Detector
3	2413.57	102.54	-7.40	95.14	/	/	Average Detector
	2413.20	107.48	-7.40	100.08	/	/	Peak Detector

802.11b-Highest Bandedge

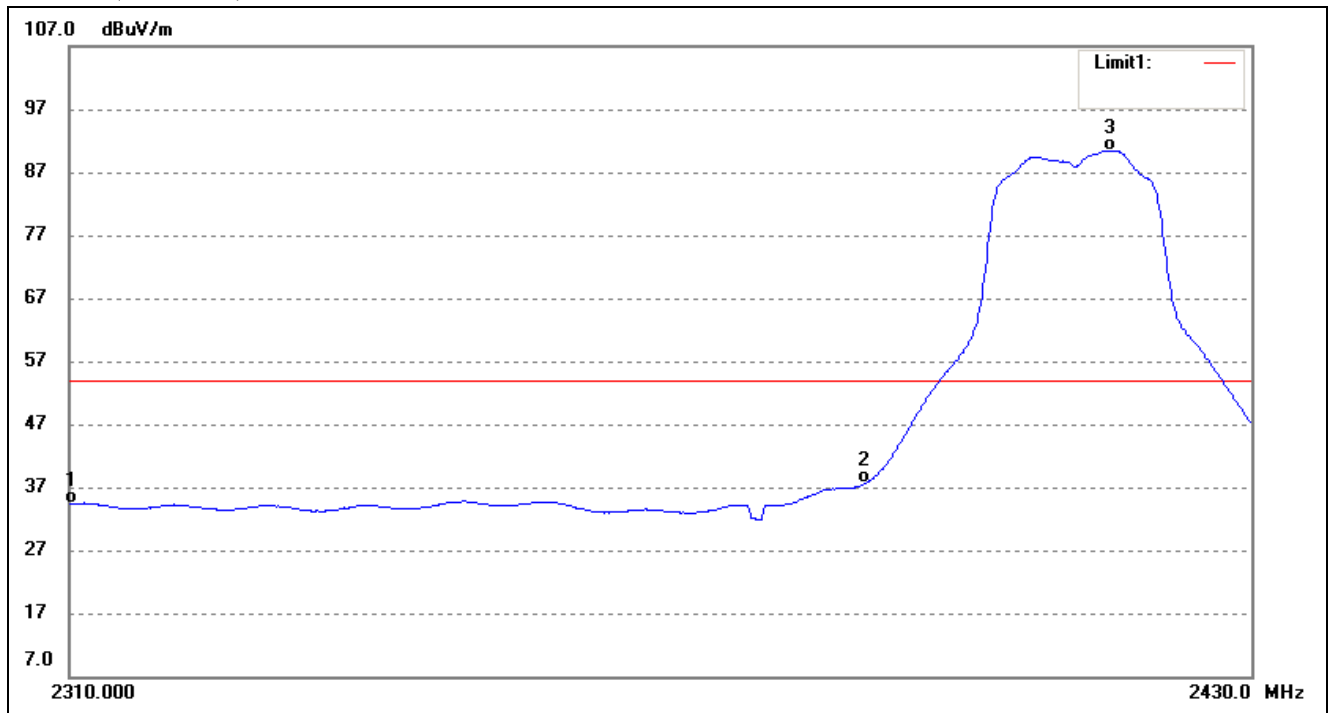
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.90	102.37	-7.31	95.06	/	/	Average Detector
	2463.55	107.41	-7.31	100.10	/	/	Peak Detector
2	2483.50	52.38	-7.28	45.10	54.00	-8.90	Average Detector
	2483.50	58.11	-7.28	50.83	74.00	-23.17	Peak Detector
3	2500.00	41.85	-7.25	34.60	54.00	-19.40	Average Detector
	2500.00	52.53	-7.25	45.28	74.00	-28.72	Peak Detector

802.11g-Lowest Bandedge

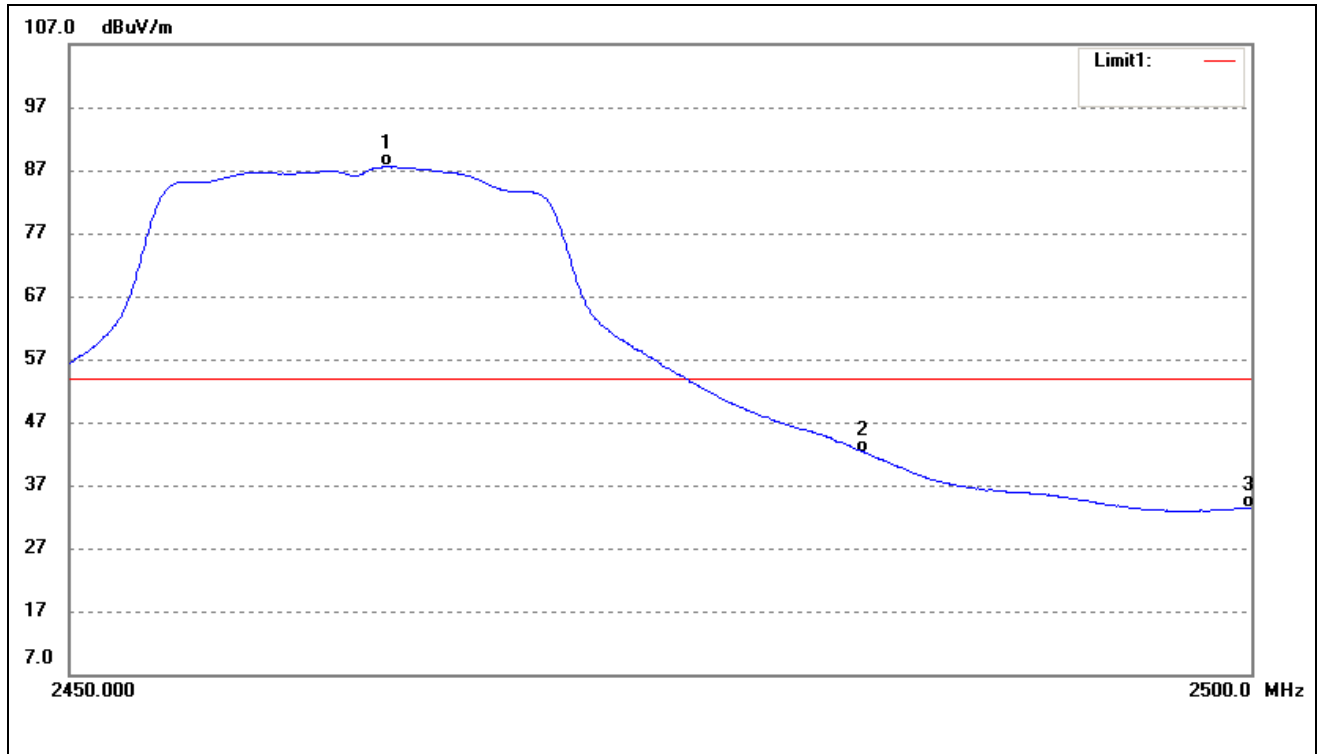
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.00	40.67	-6.38	34.29	54.00	-19.71	Average Detector
	2310.00	52.53	-6.38	46.15	74.00	-27.85	Peak Detector
2	2390.00	44.85	-7.26	37.59	54.00	-16.41	Average Detector
	2390.00	61.57	-7.26	54.31	74.00	-19.69	Peak Detector
3	2415.40	97.84	-7.40	90.44	/	/	Average Detector
	2415.03	107.87	-7.40	100.47	/	/	Peak Detector

802.11g-Highest Bandedge

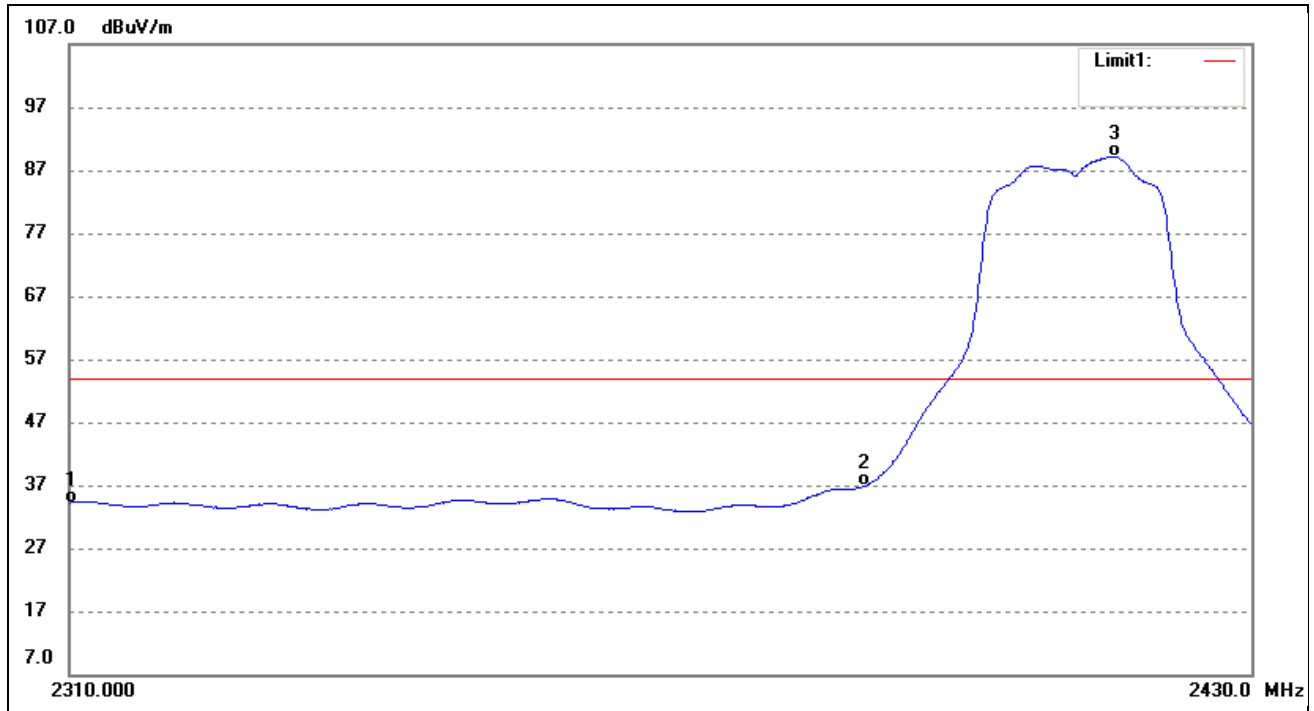
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.35	94.85	-7.31	87.54	/	/	Average Detector
	2463.10	106.59	-7.31	99.28	/	/	Peak Detector
2	2483.50	49.47	-7.28	42.19	54.00	-11.81	Average Detector
	2483.50	66.96	-7.28	59.68	74.00	-14.32	Peak Detector
3	2500.00	40.65	-7.25	33.40	54.00	-20.60	Average Detector
	2500.00	53.27	-7.25	46.02	74.00	-27.98	Peak Detector

802.11n-HT20-Lowest Bandedge

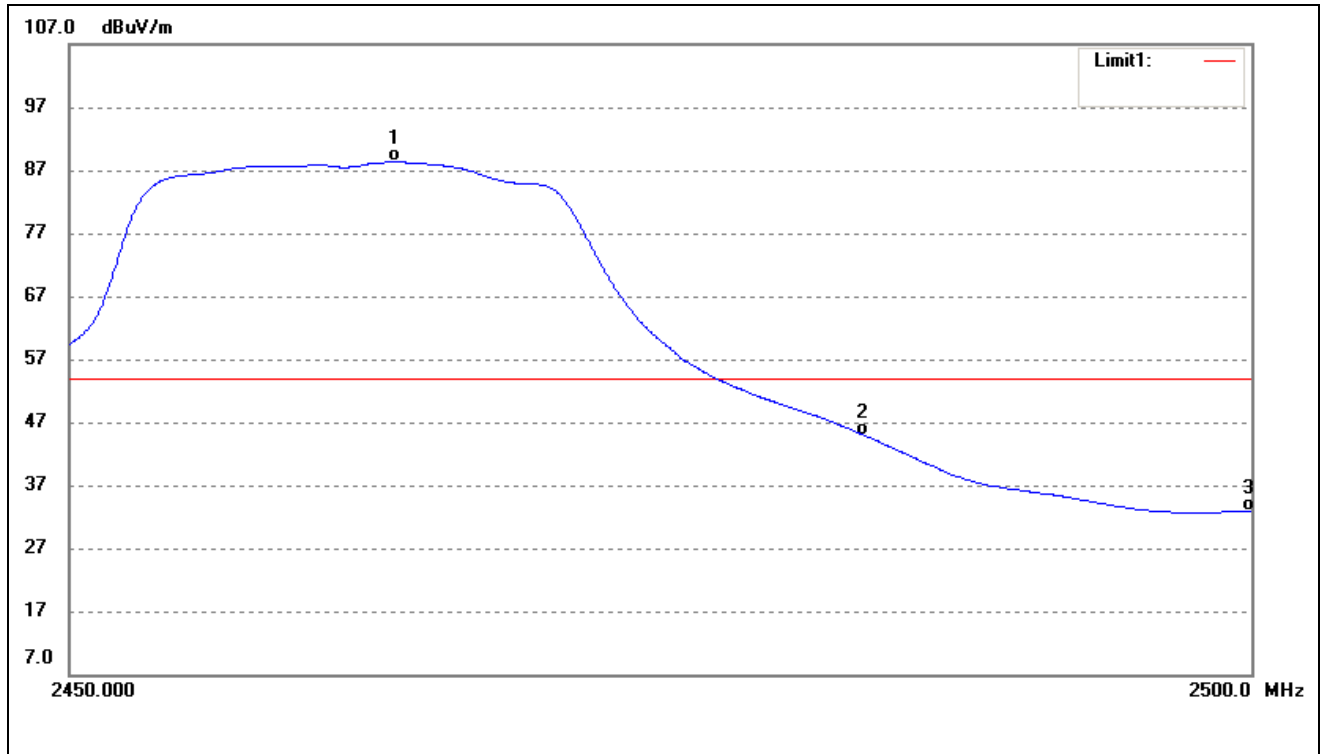
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.00	40.61	-6.38	34.23	54.00	-19.77	Average Detector
	2310.00	52.80	-6.38	46.42	74.00	-27.58	Peak Detector
2	2390.00	44.17	-7.26	36.91	54.00	-17.09	Average Detector
	2390.00	62.72	-7.26	55.46	74.00	-18.54	Peak Detector
3	2415.89	96.48	-7.39	89.09	/	/	Average Detector
	2415.89	107.14	-7.39	99.75	/	/	Peak Detector

802.11n-HT20-Highest Bandedge

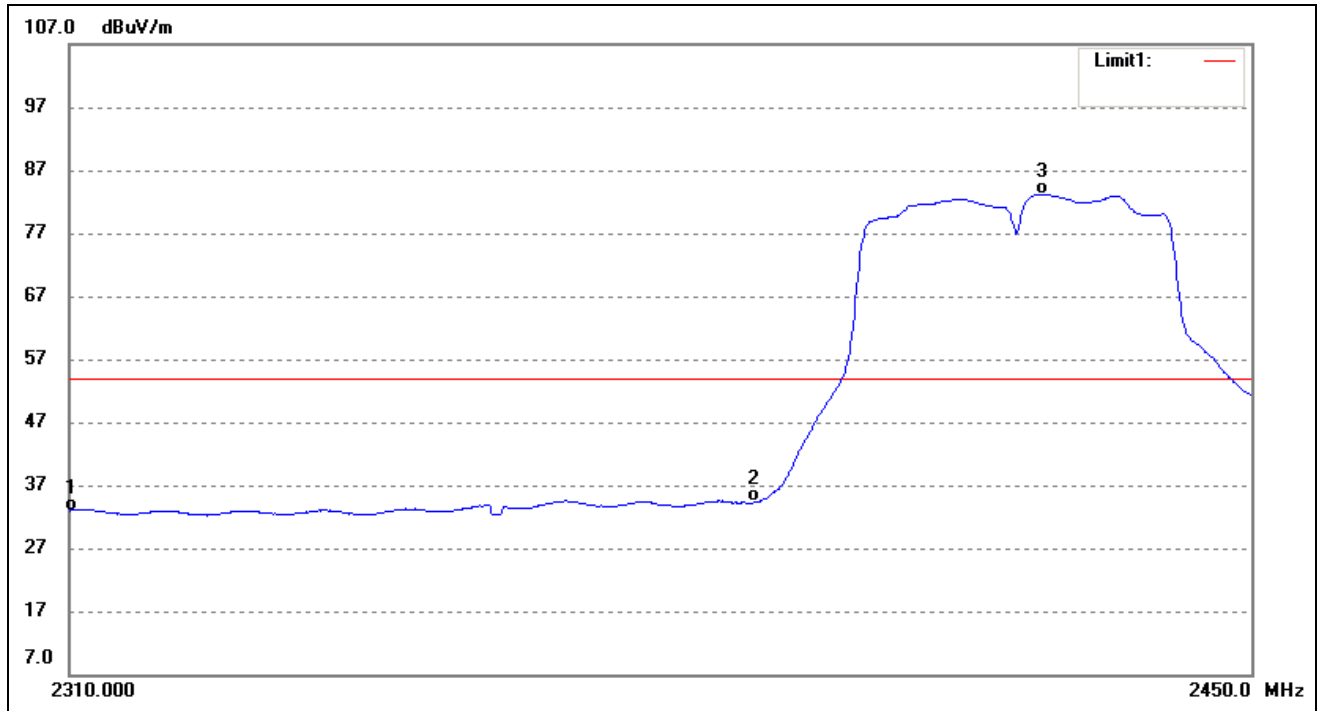
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.65	95.62	-7.31	88.31	/	/	Average Detector
	2464.40	106.38	-7.31	99.07	/	/	Peak Detector
2	2483.50	52.18	-7.28	44.90	54.00	-9.10	Average Detector
	2483.50	69.12	-7.28	61.84	74.00	-12.16	Peak Detector
3	2500.00	40.18	-7.25	32.93	54.00	-21.07	Average Detector
	2500.00	53.14	-7.25	45.89	74.00	-28.11	Peak Detector

802.11n-HT40-Lowest Bandedge

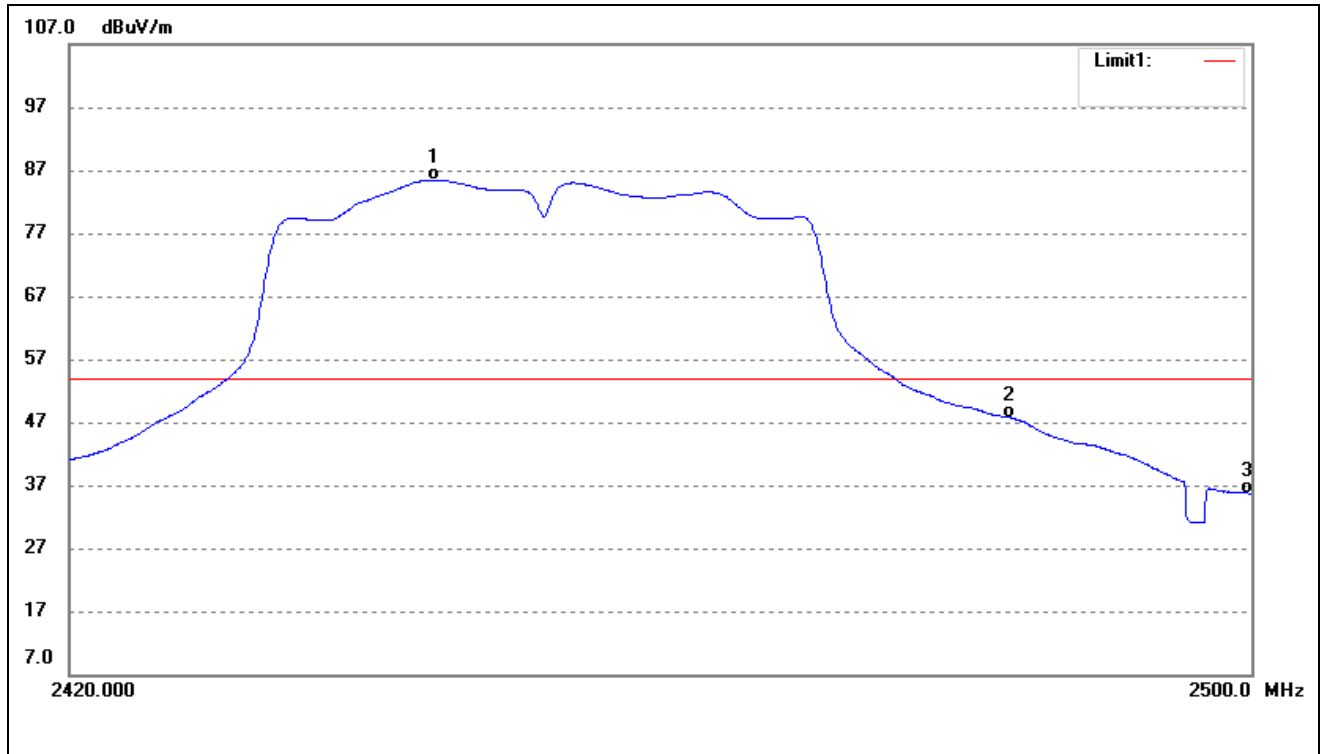
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.00	39.34	-6.38	32.96	54.00	-21.04	Average Detector
	2310.00	52.02	-6.38	45.64	74.00	-28.36	Peak Detector
2	2390.00	41.54	-7.26	34.28	54.00	-19.72	Average Detector
	2390.00	56.13	-7.26	48.87	74.00	-25.13	Peak Detector
3	2424.62	90.60	-7.38	83.22	/	/	Average Detector
	2424.76	103.02	-7.38	95.64	/	/	Peak Detector

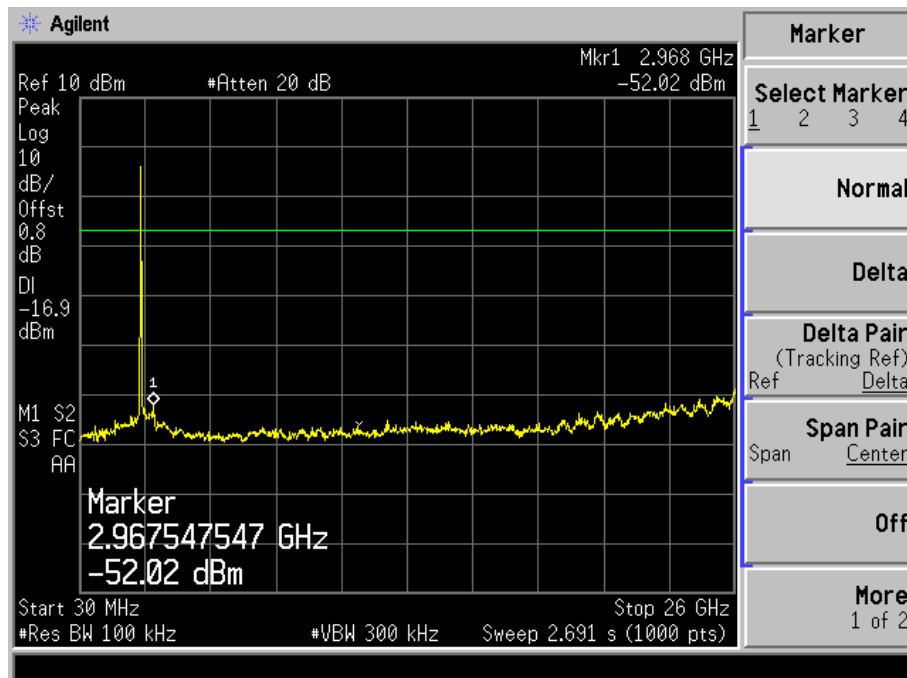
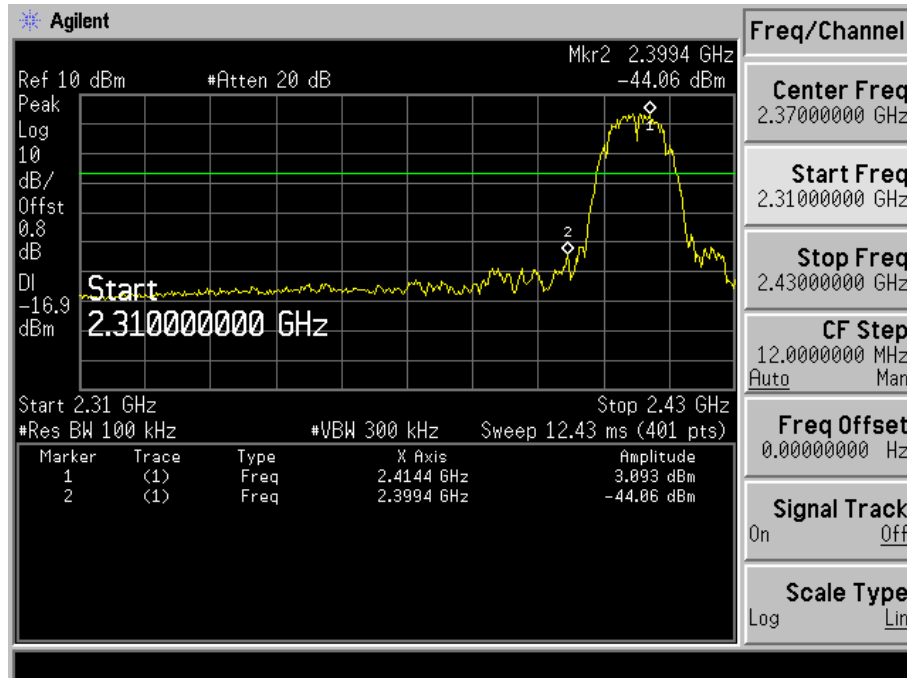
802.11n-HT40-Highest Bandedge

Vertical (Worst case)

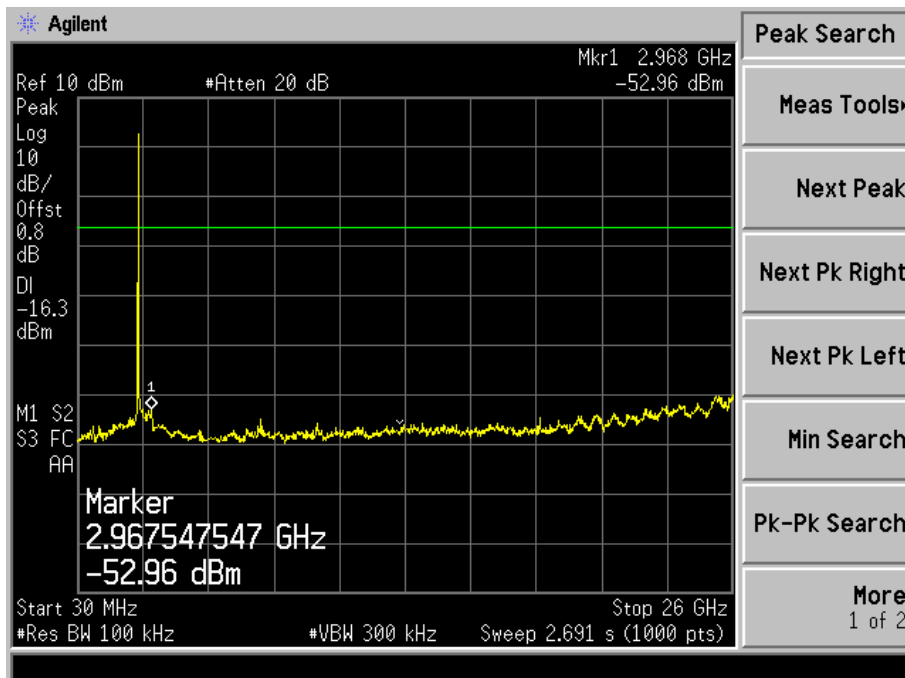
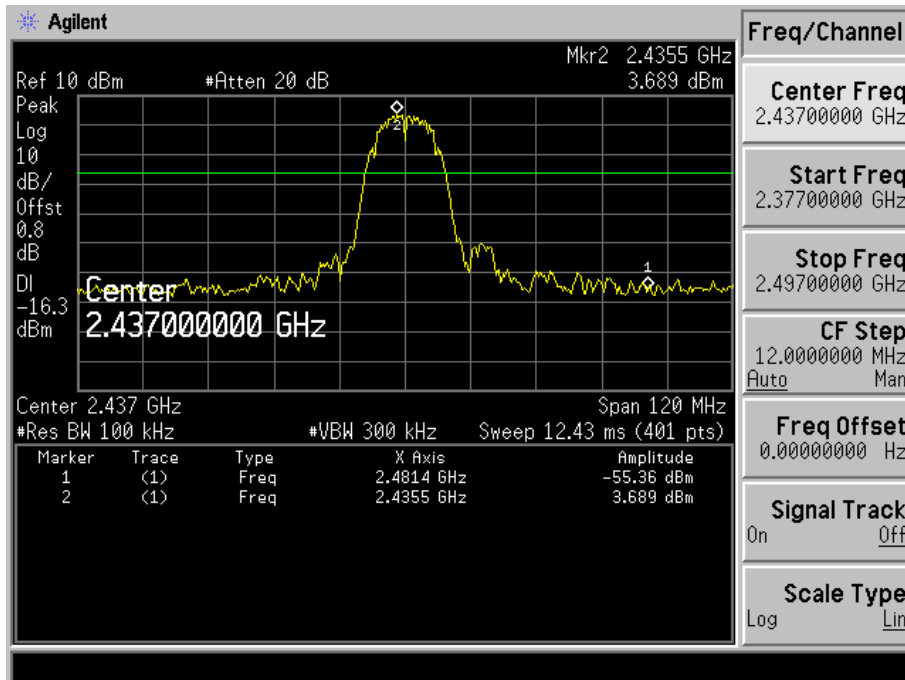


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2444.36	92.81	-7.35	85.46	/	/	Average Detector
	2444.52	103.55	-7.35	96.20	/	/	Peak Detector
2	2483.50	55.03	-7.28	47.75	54.00	-6.25	Average Detector
	2483.50	68.22	-7.28	60.94	74.00	-13.06	Peak Detector
3	2500.00	42.98	-7.25	35.73	54.00	-18.27	Average Detector
	2500.00	57.91	-7.25	50.66	74.00	-23.34	Peak Detector

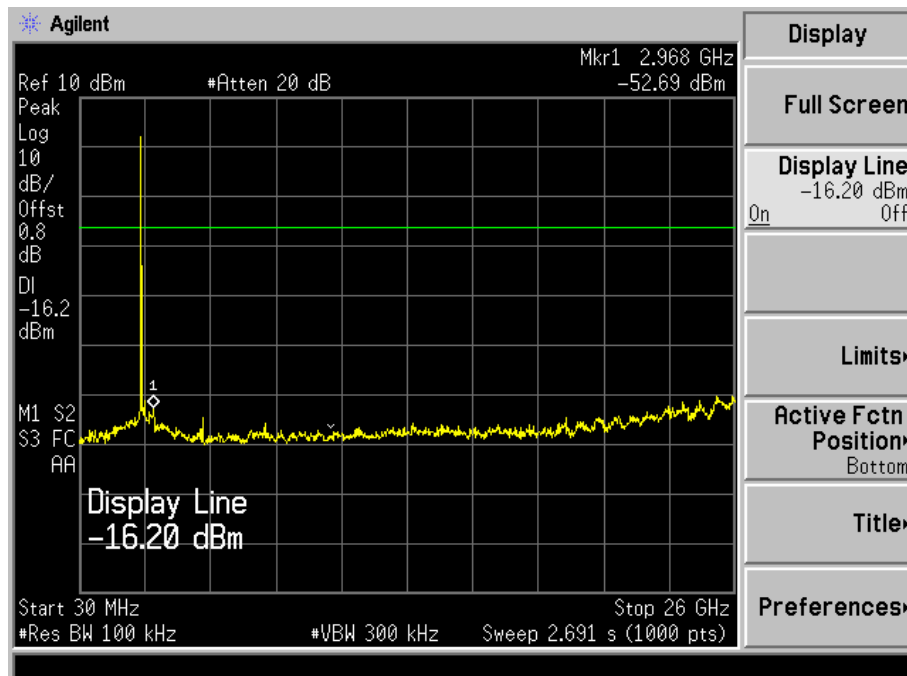
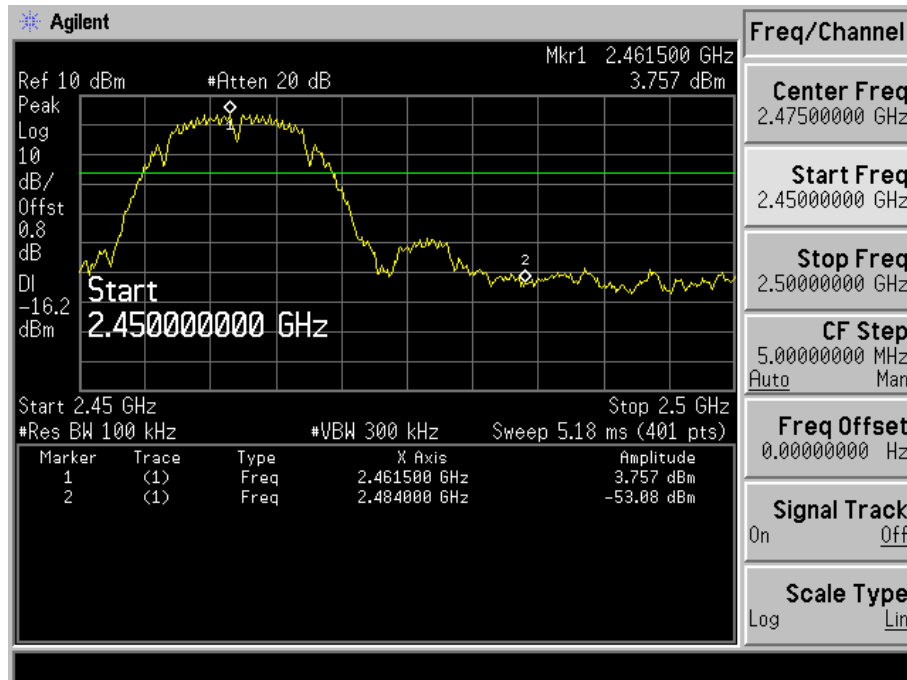
Antenna A
Spurious (Conducted)
802.11b-Lowest
Lowest



Middle



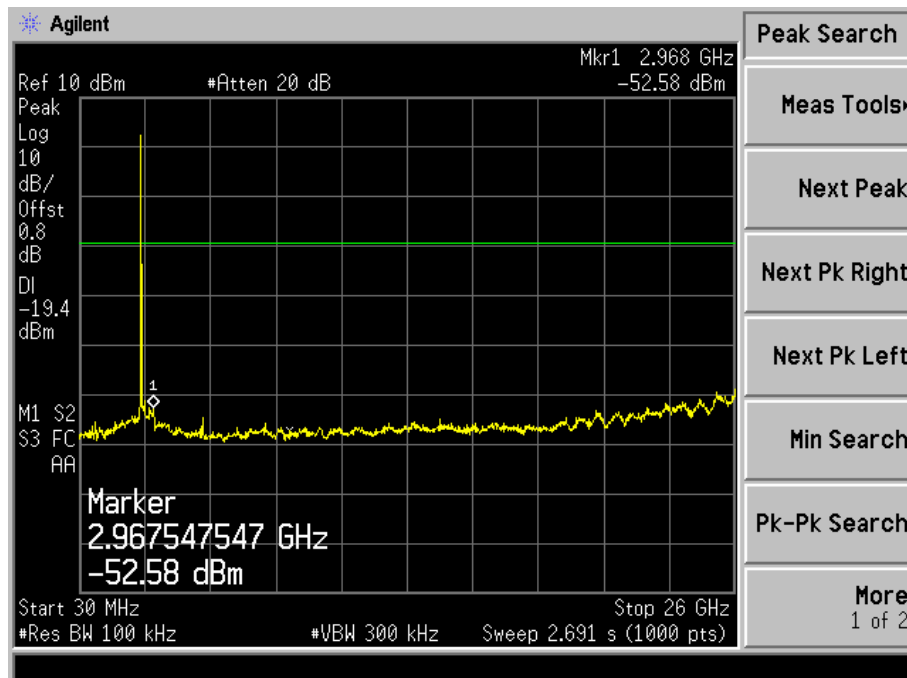
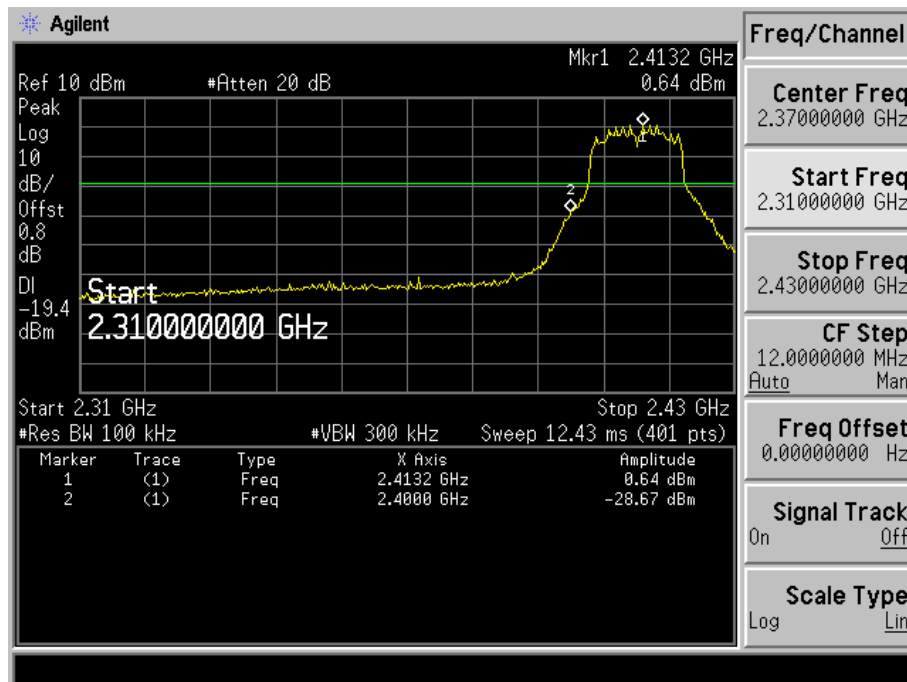
Highest



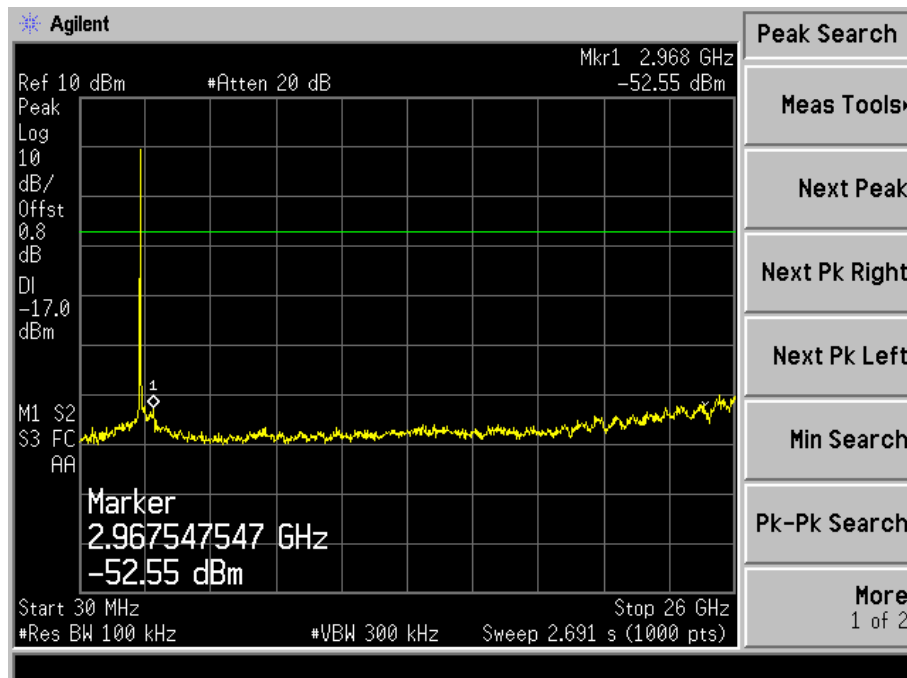
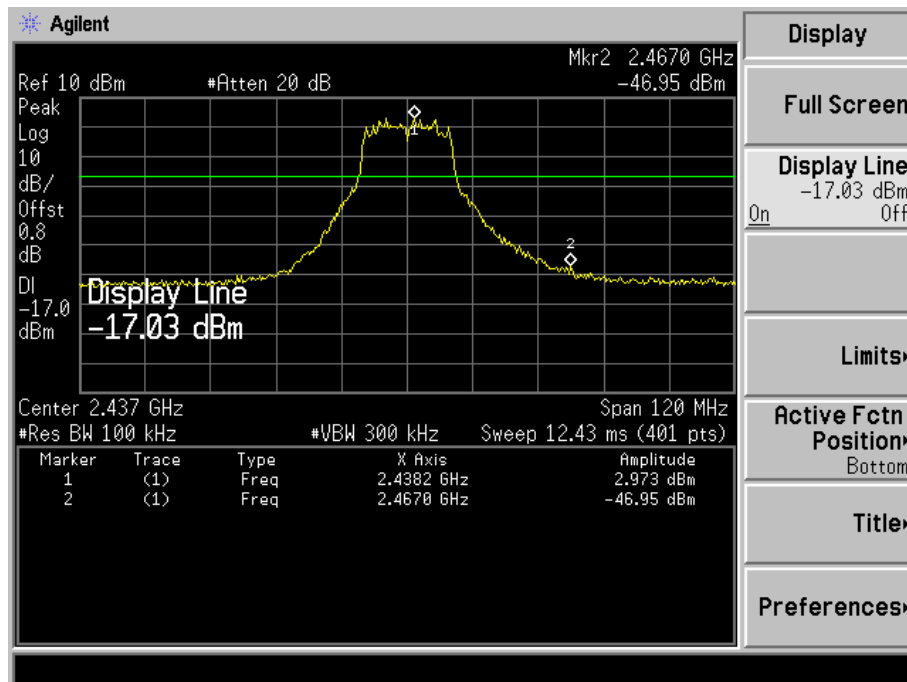
Spurious (Conducted)

802.11g-Lowest

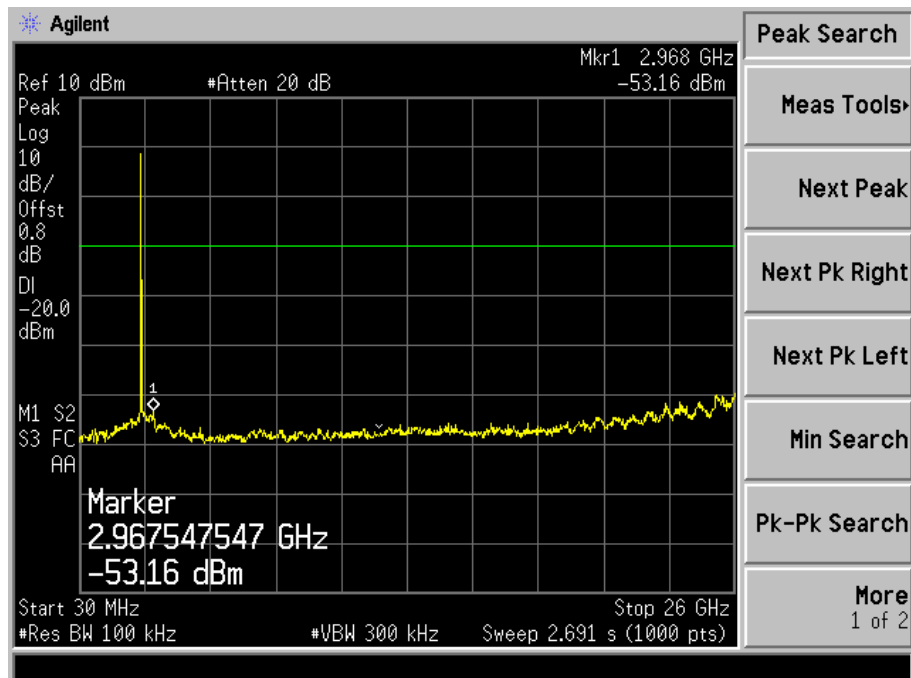
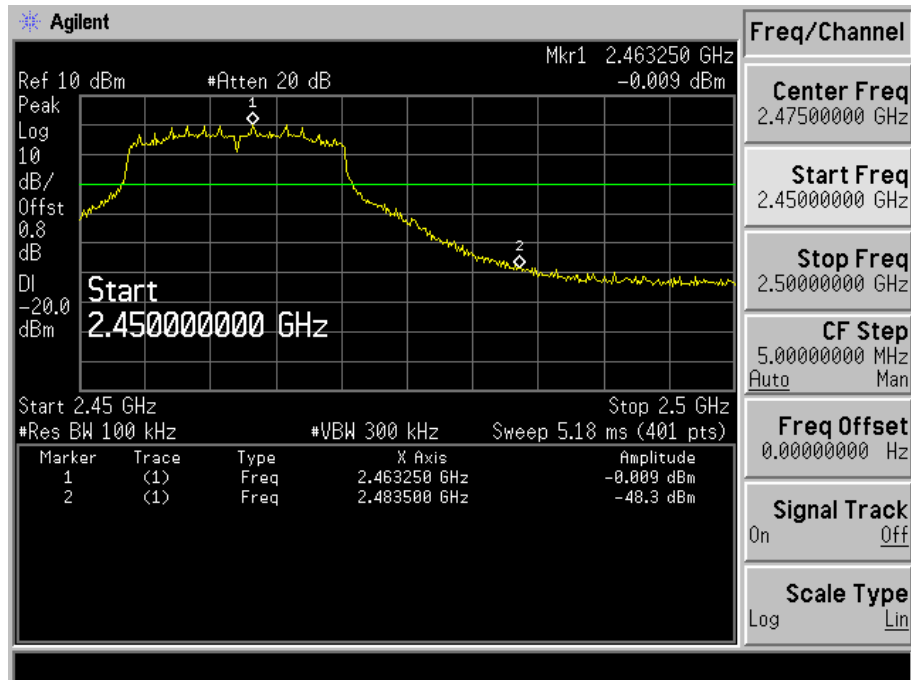
Lowest



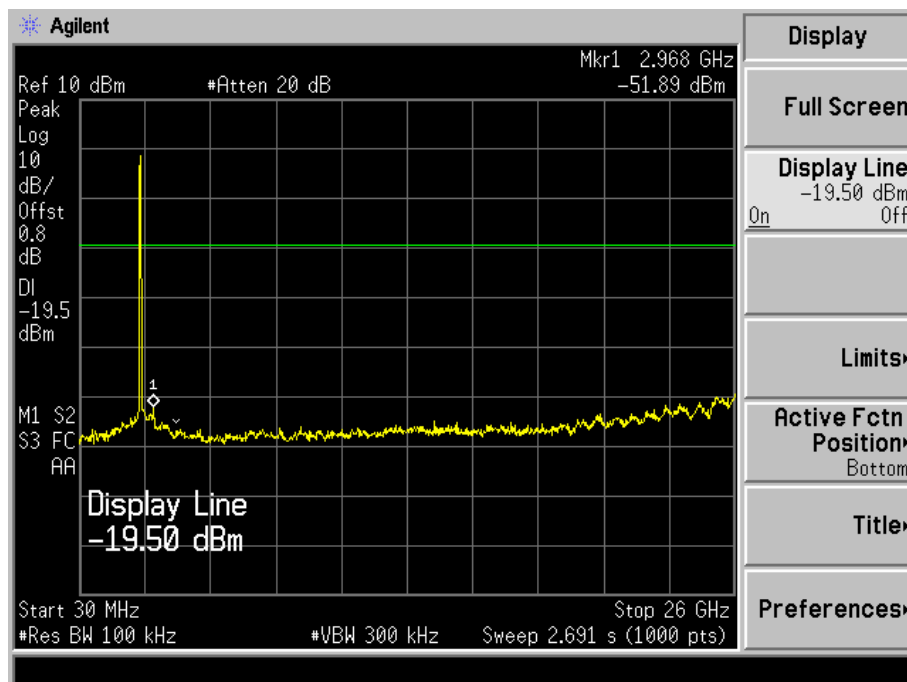
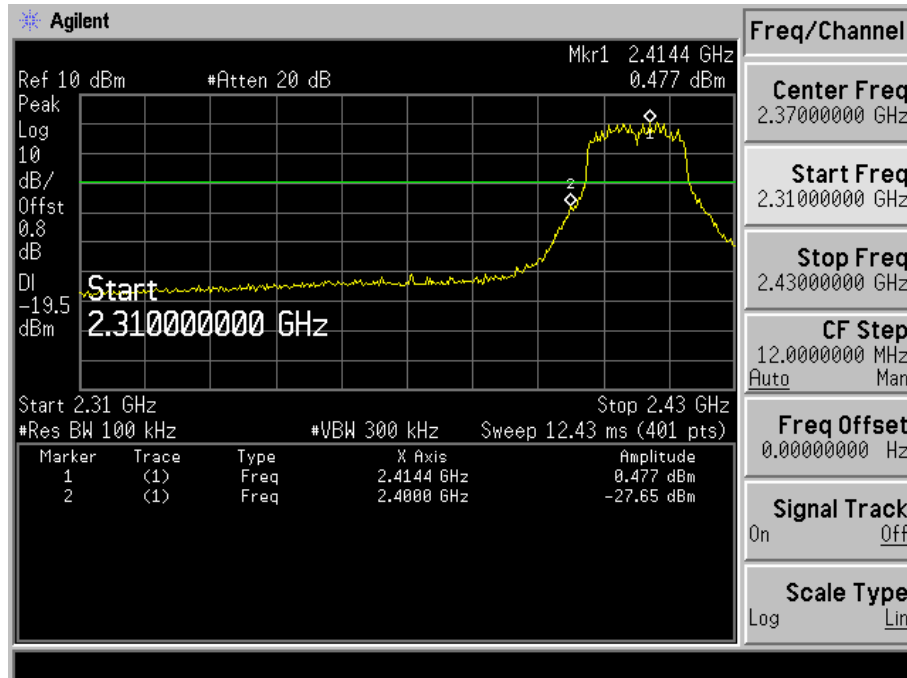
Middle



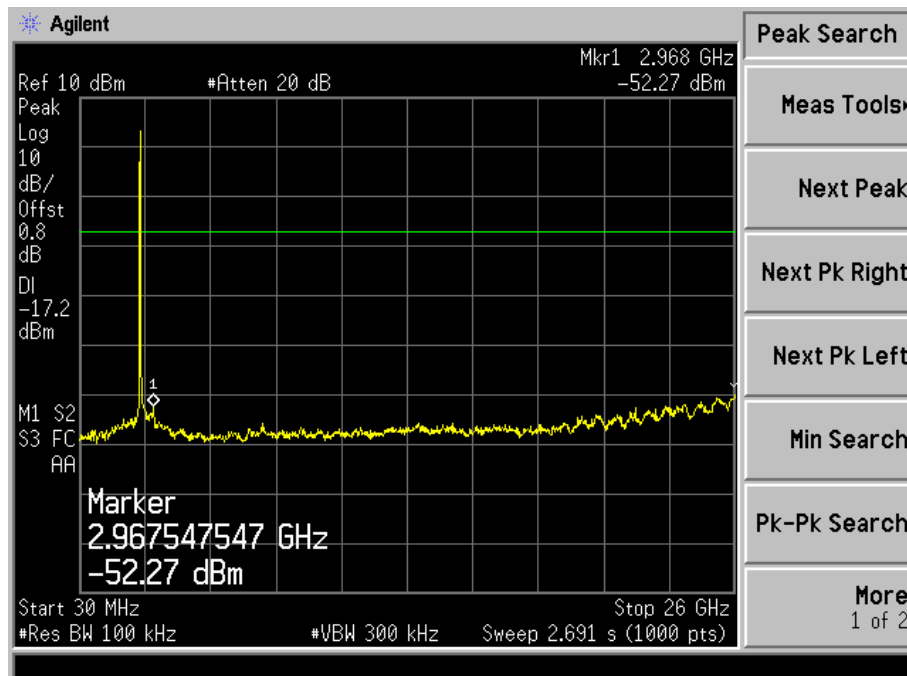
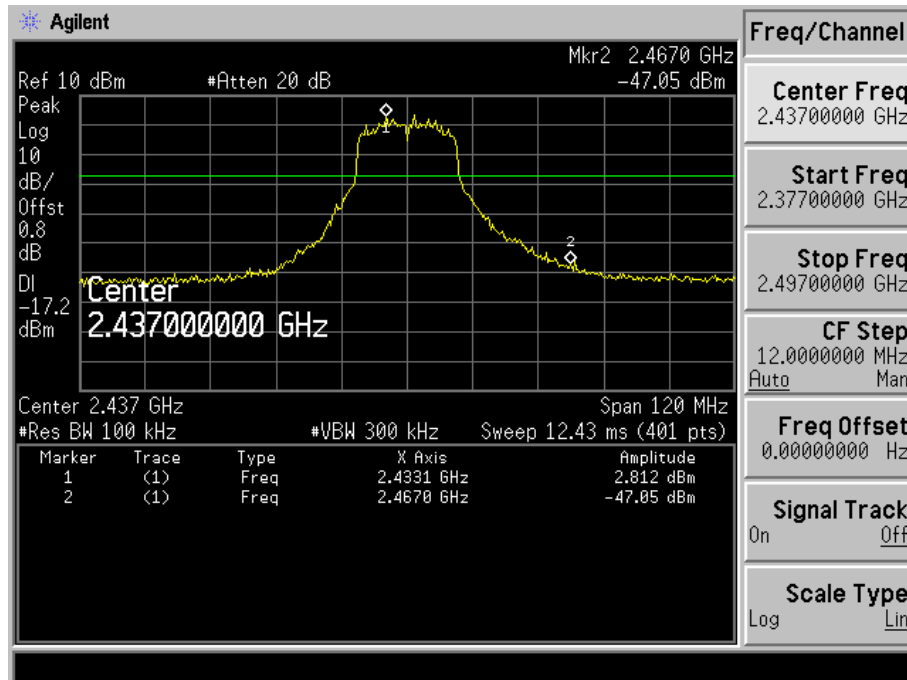
Highest



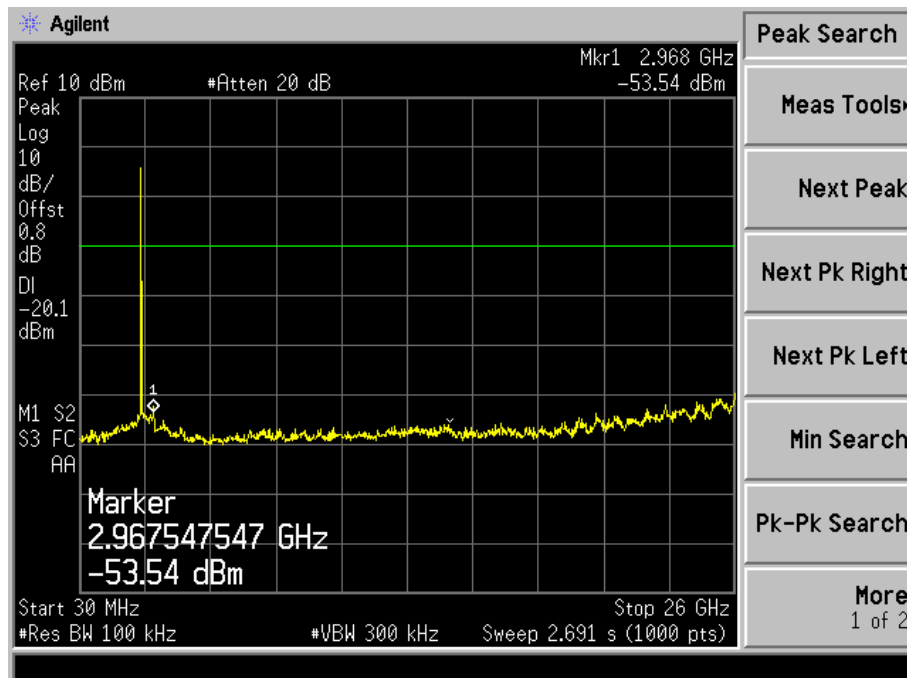
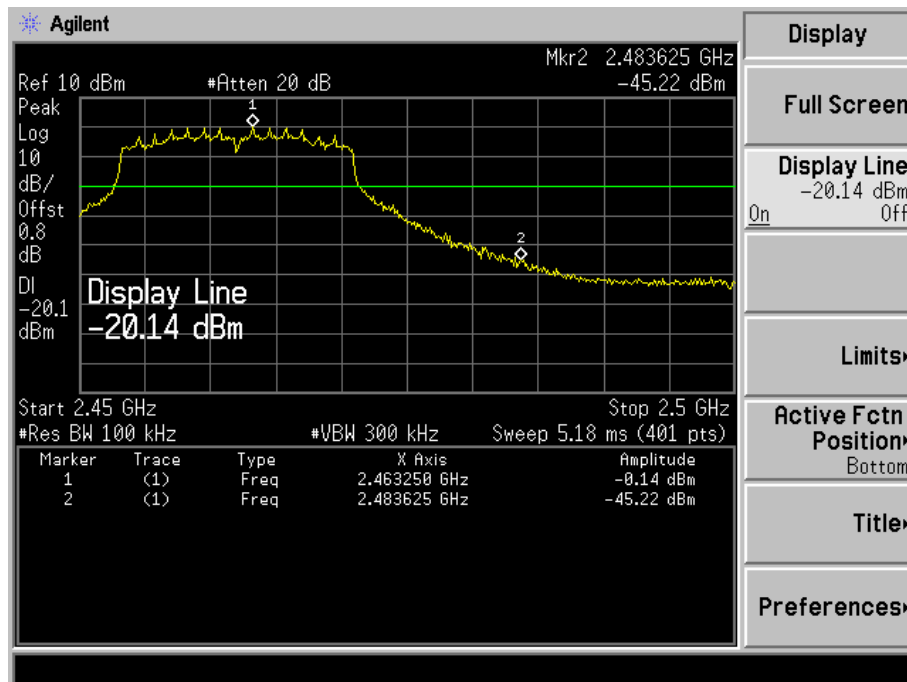
Spurious (Conducted)
802.11n-HT20-Lowest
Lowest



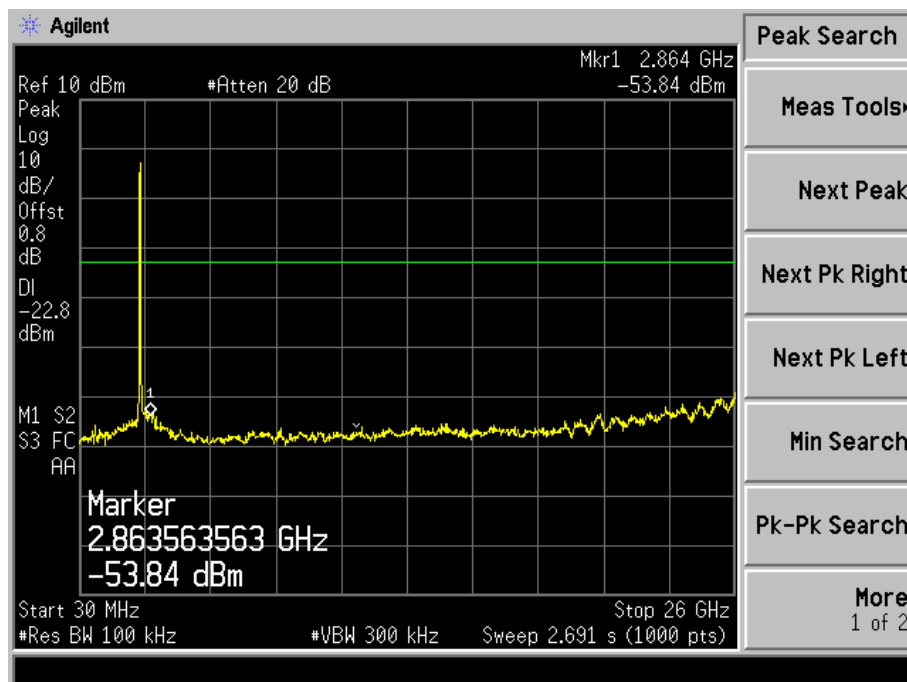
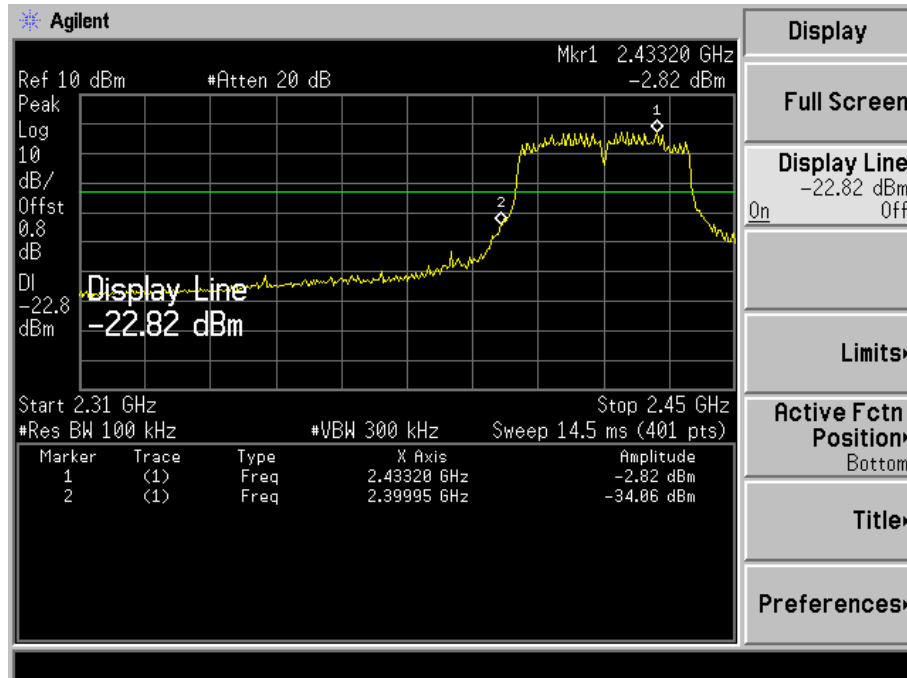
Middle



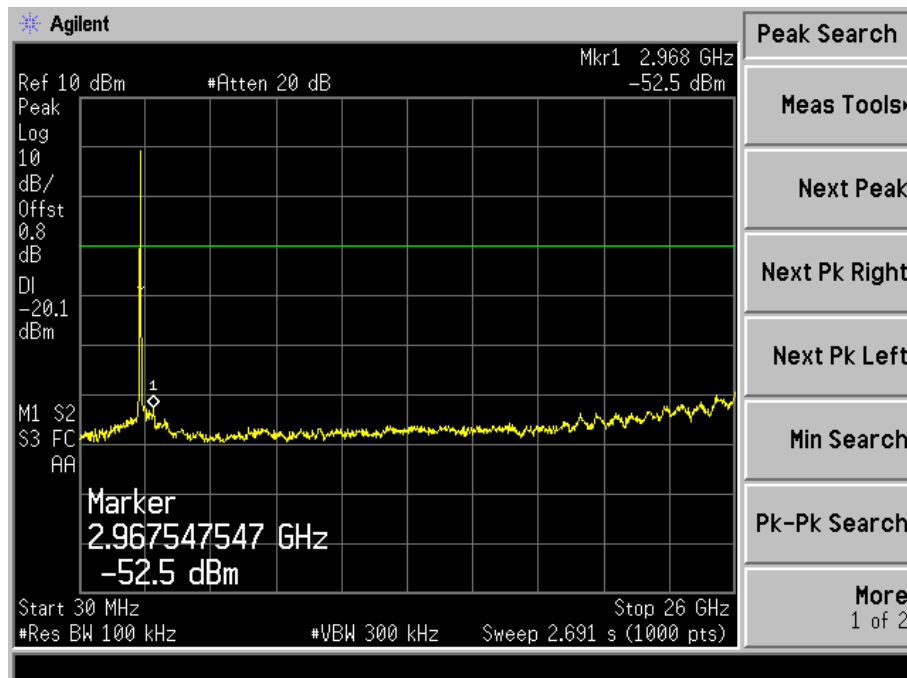
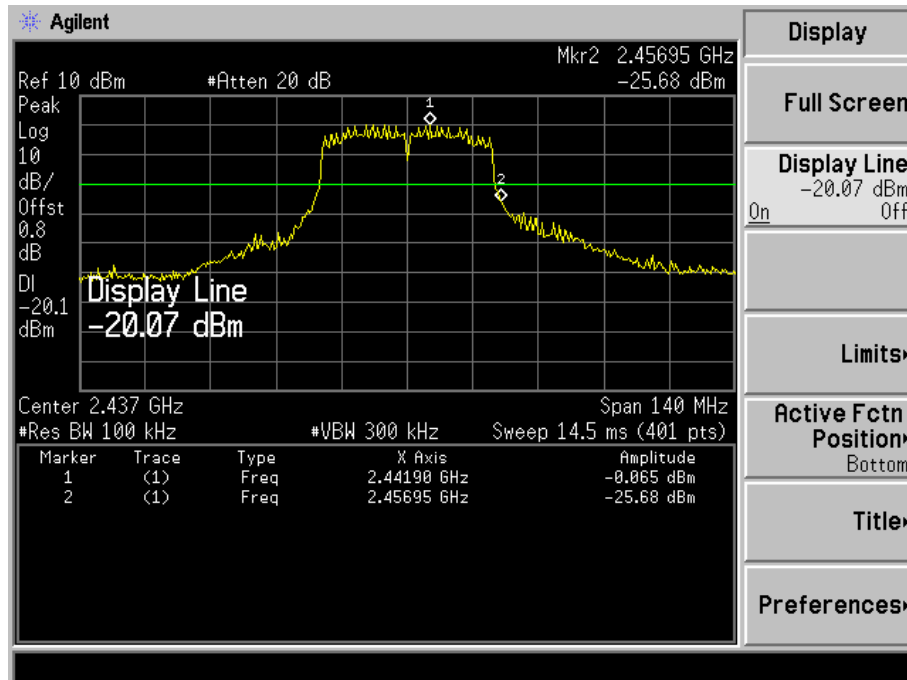
Highest



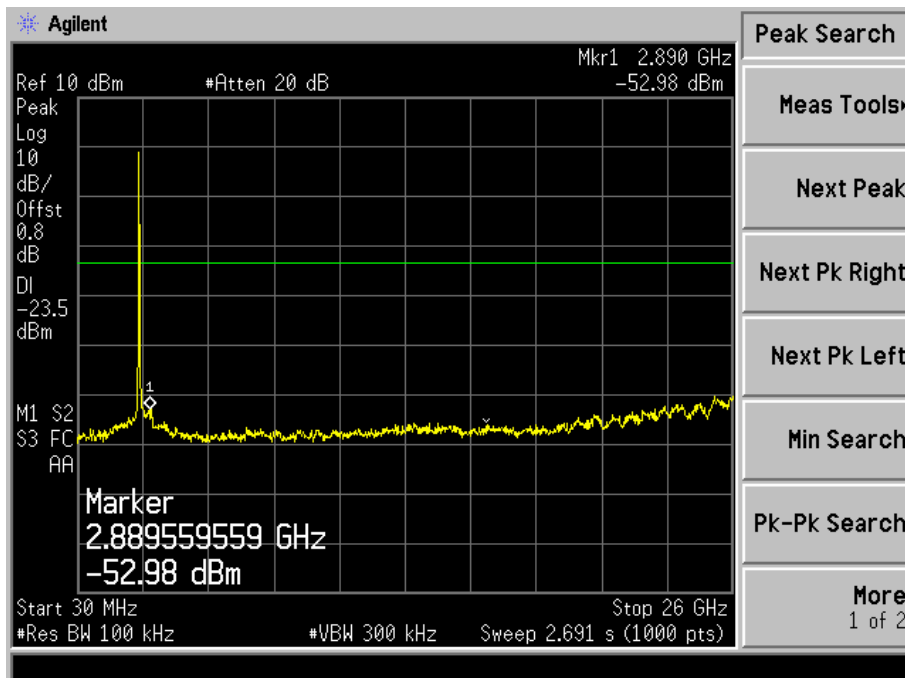
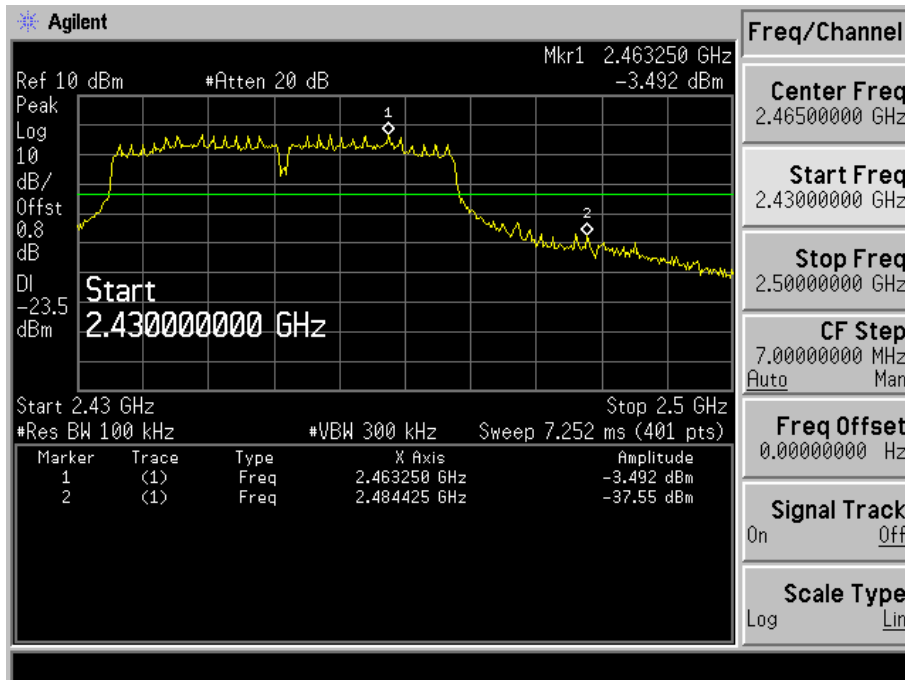
Spurious (Conducted)
802.11n-HT40-Lowest
Lowest



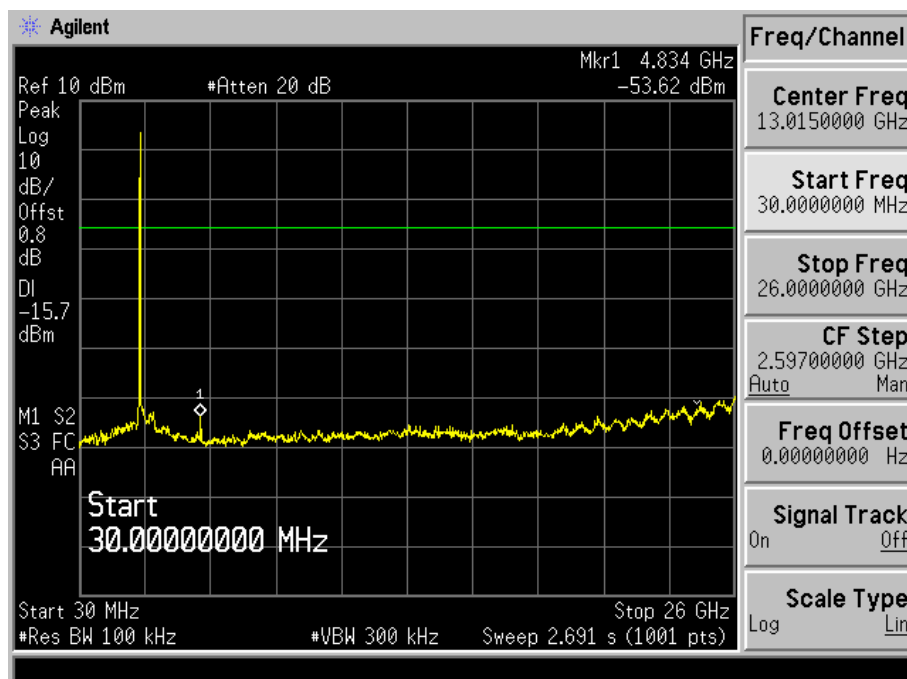
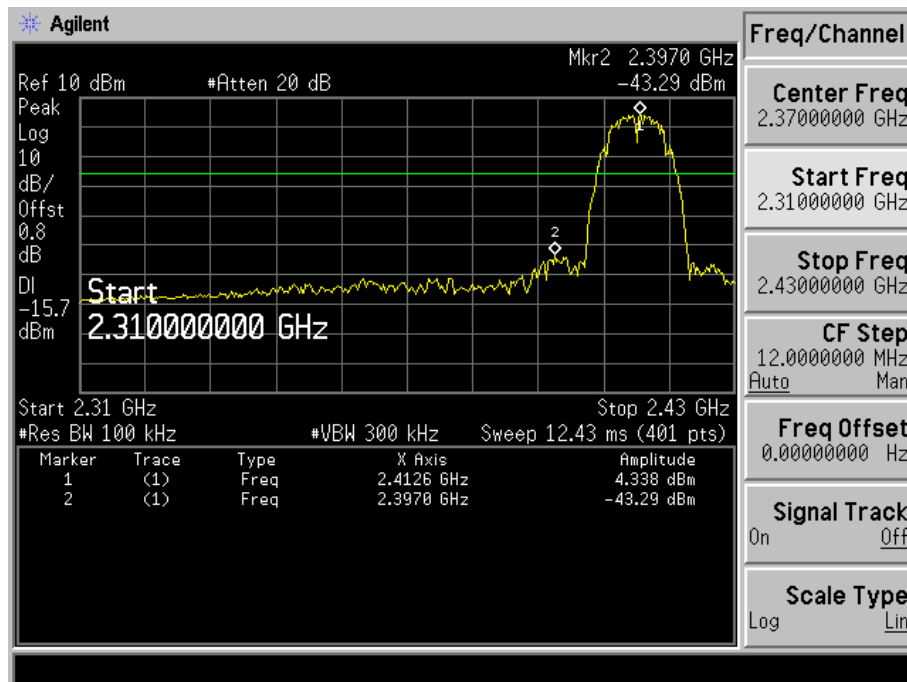
Middle



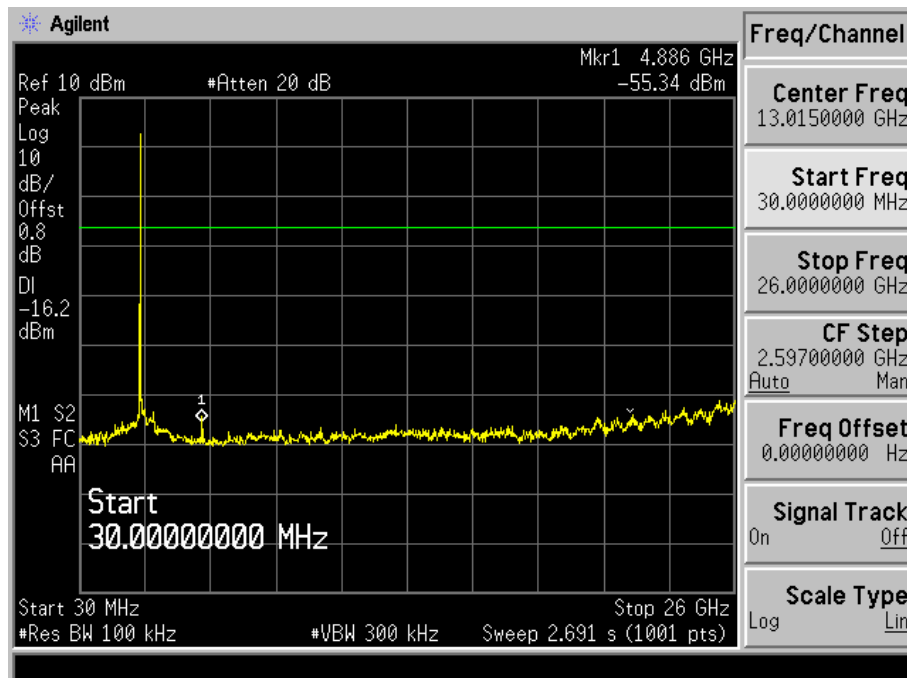
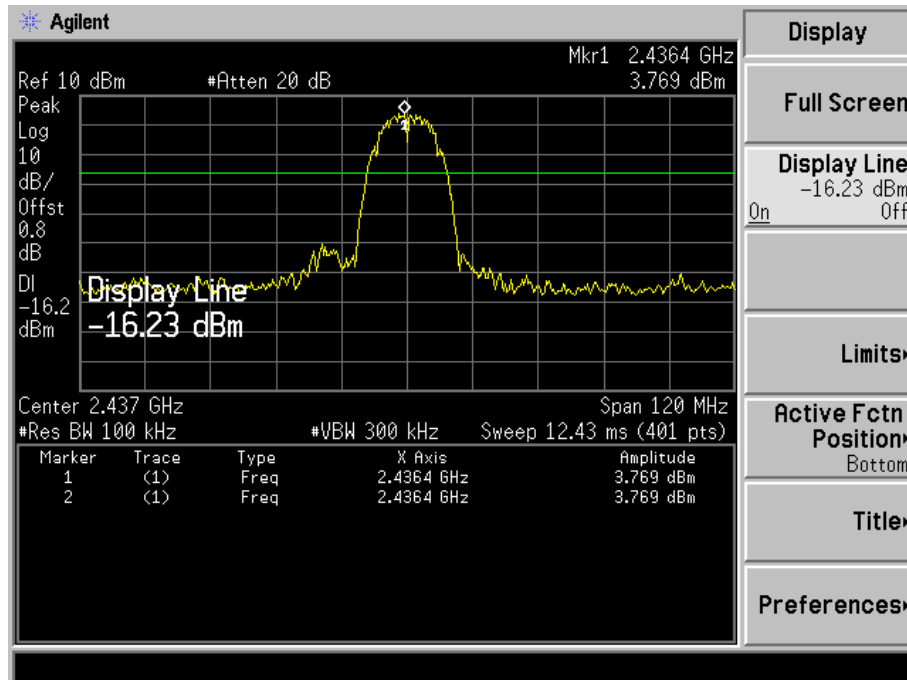
Highest



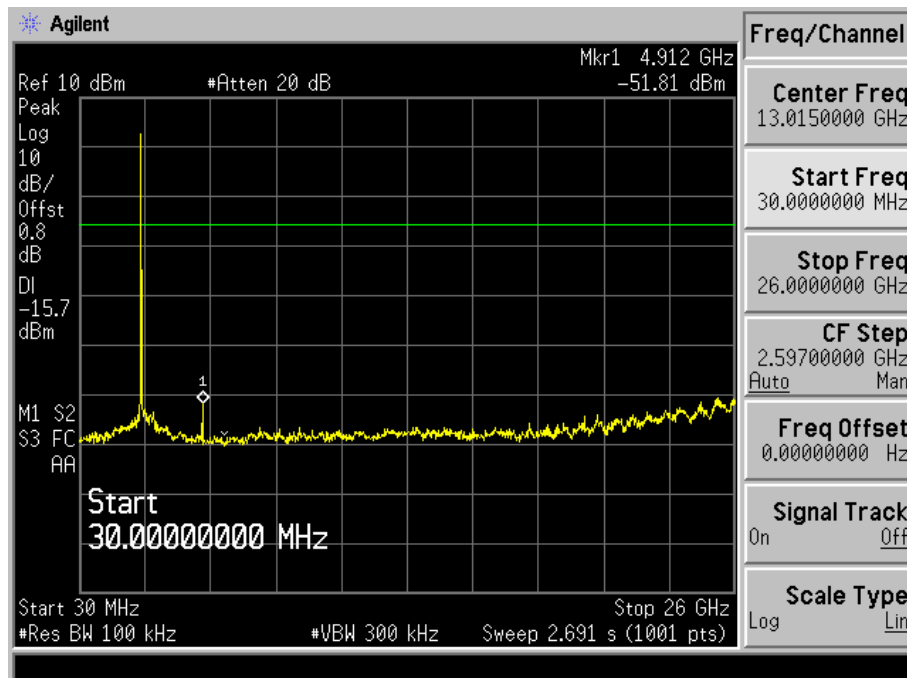
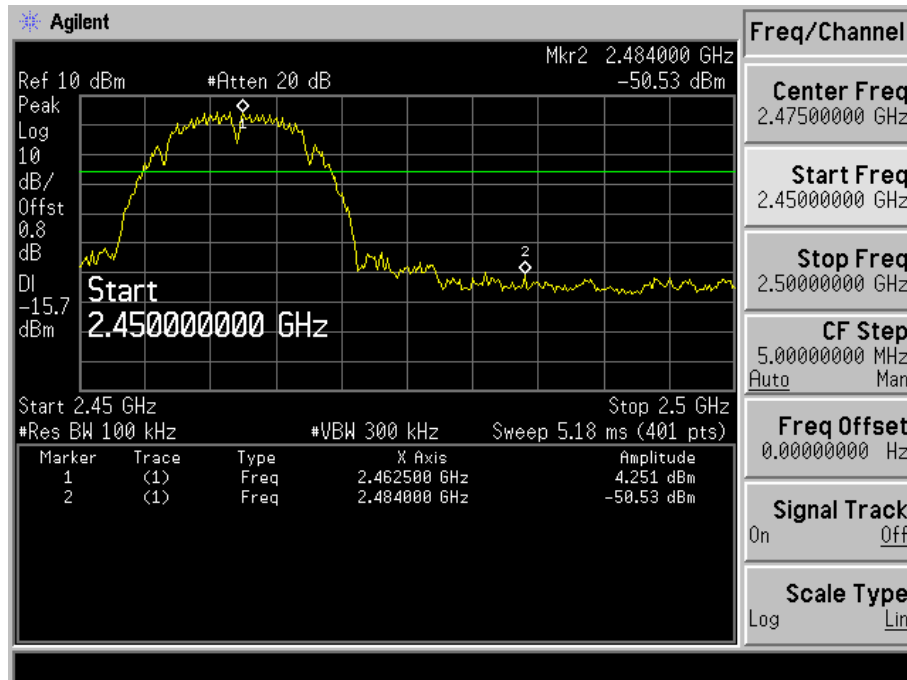
Antenna B
Spurious (Conducted)
802.11b-Lowest



Middle

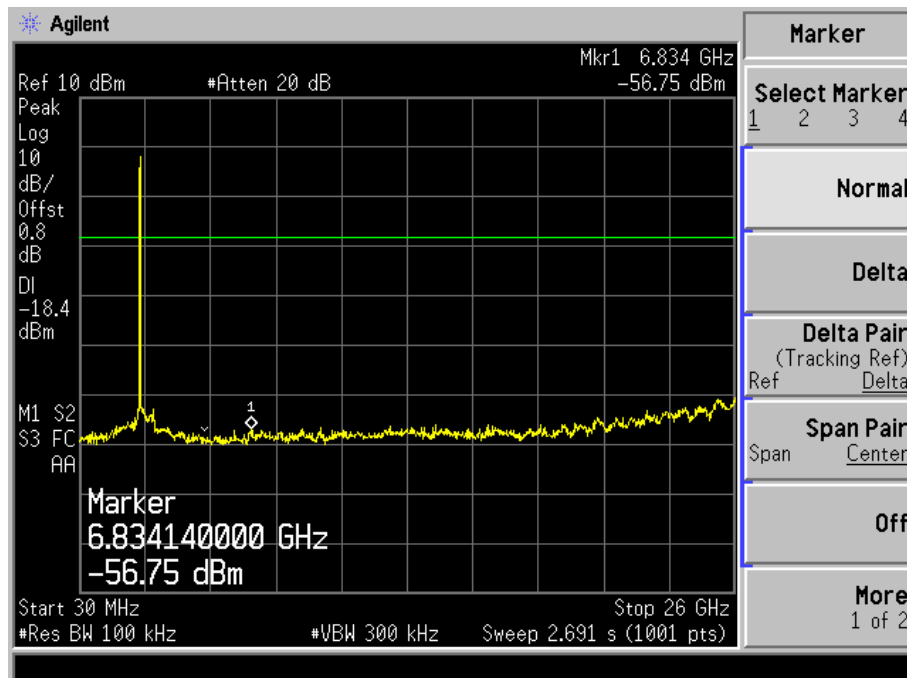
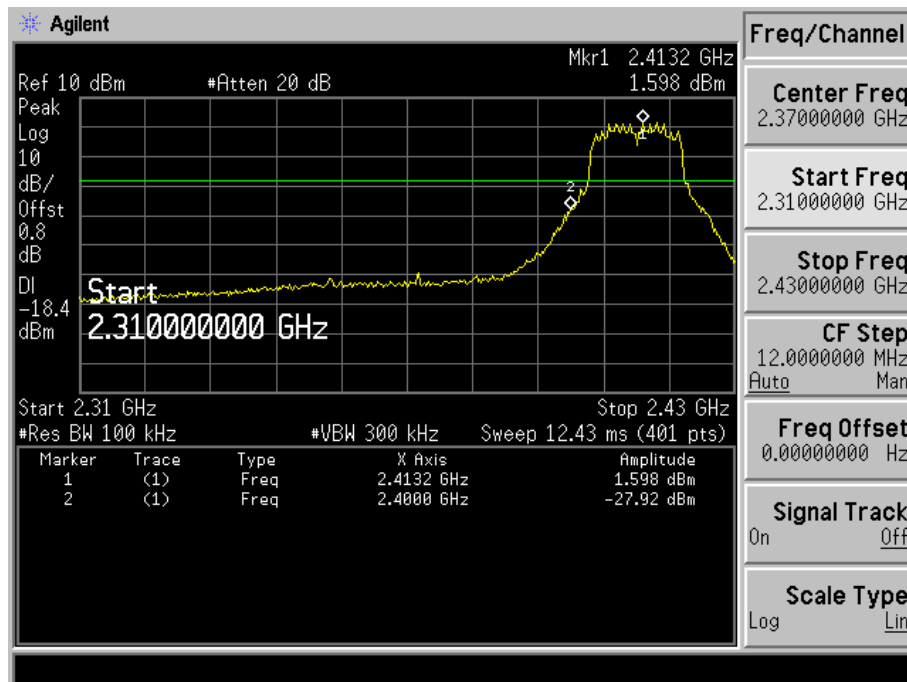


Highest

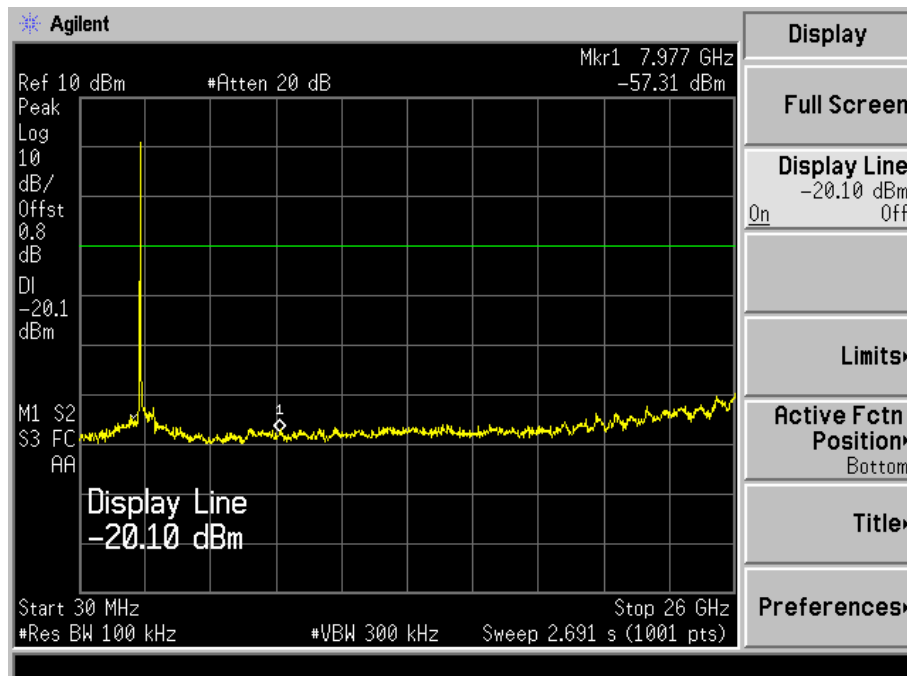
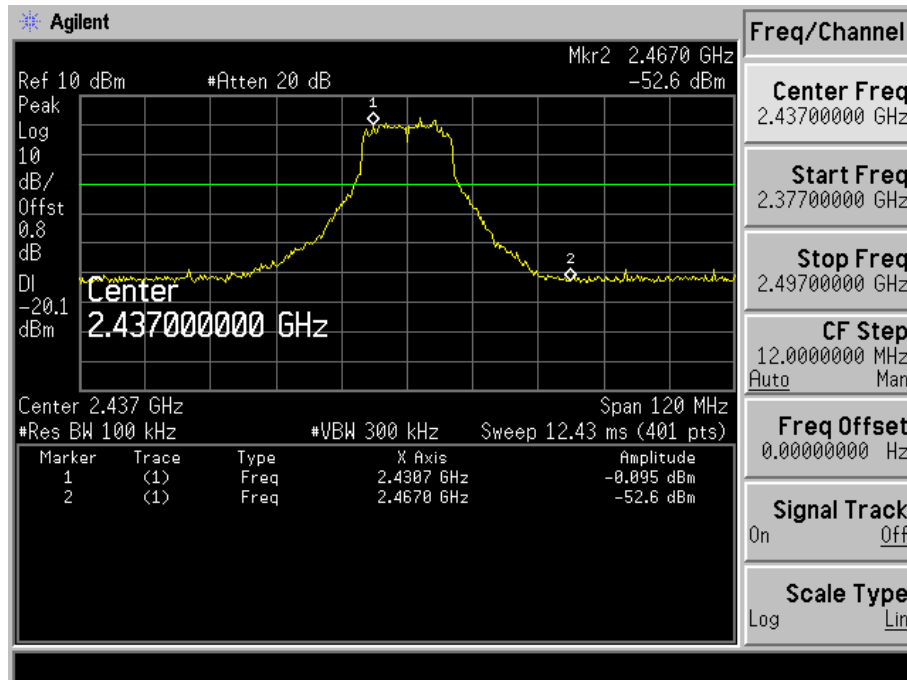


Spurious (Conducted)

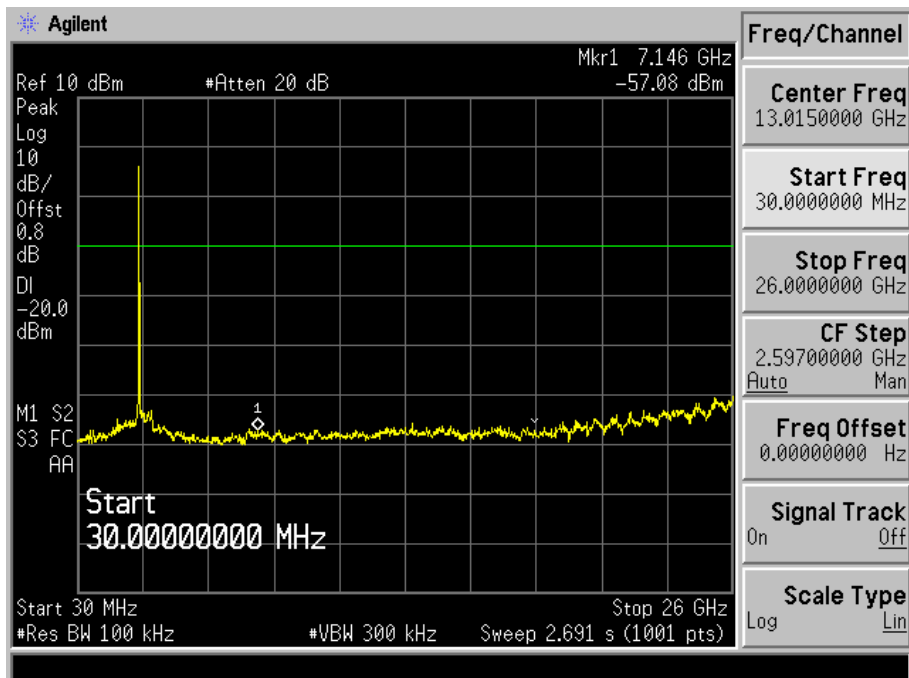
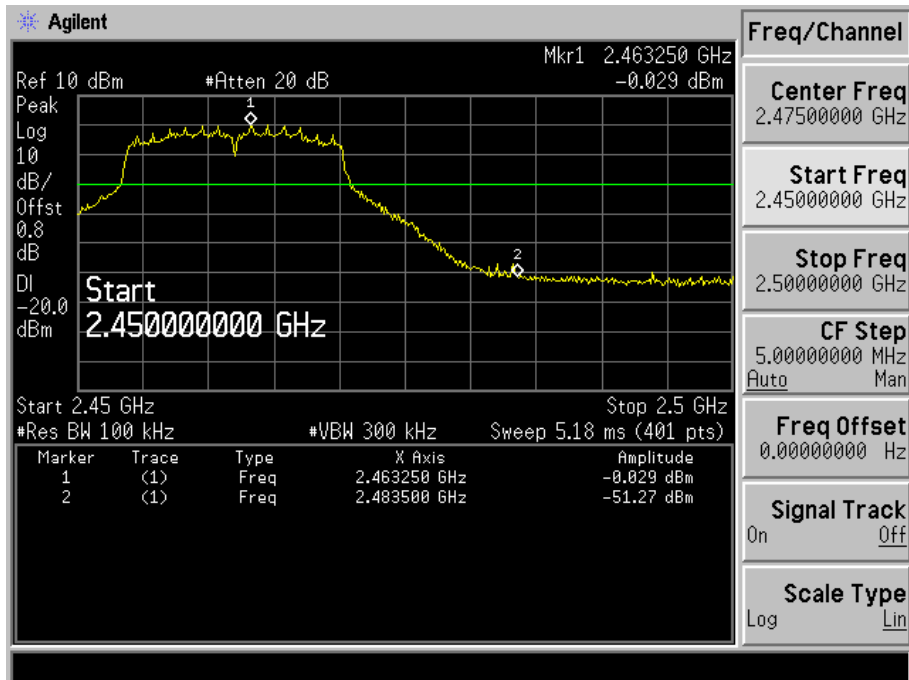
802.11g-Lowest



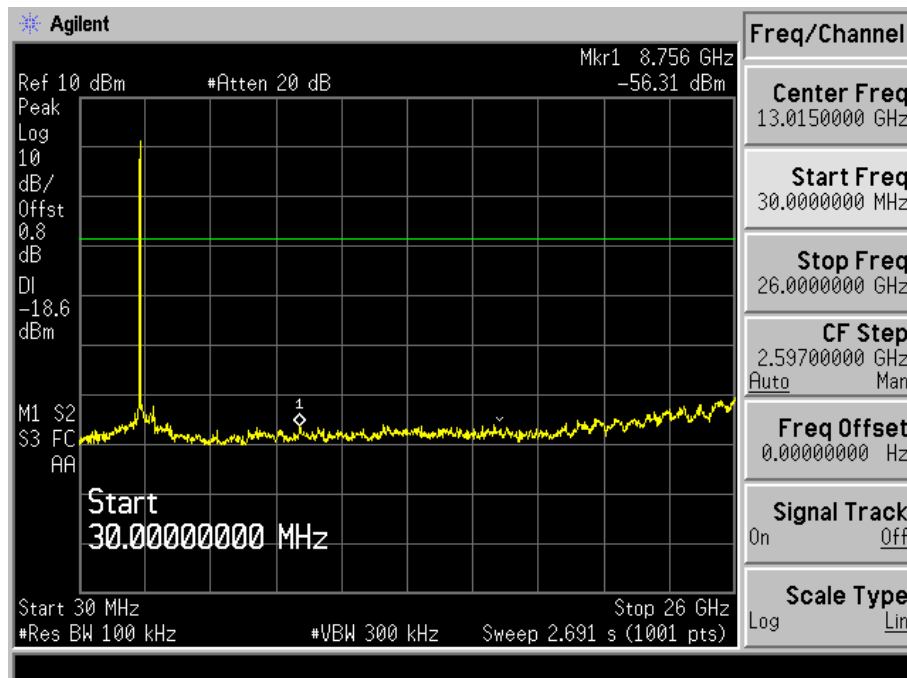
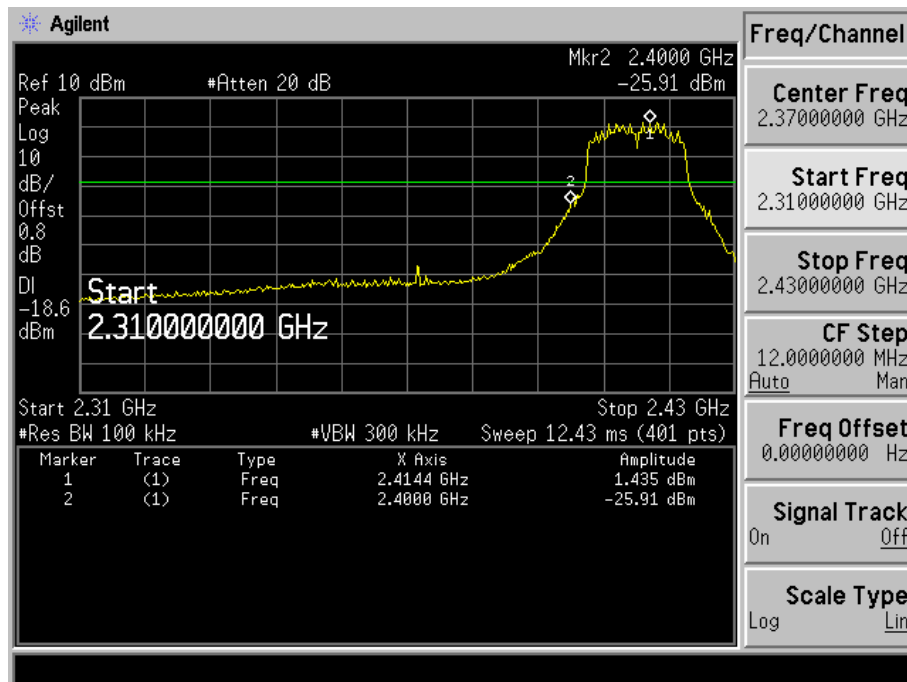
Middle



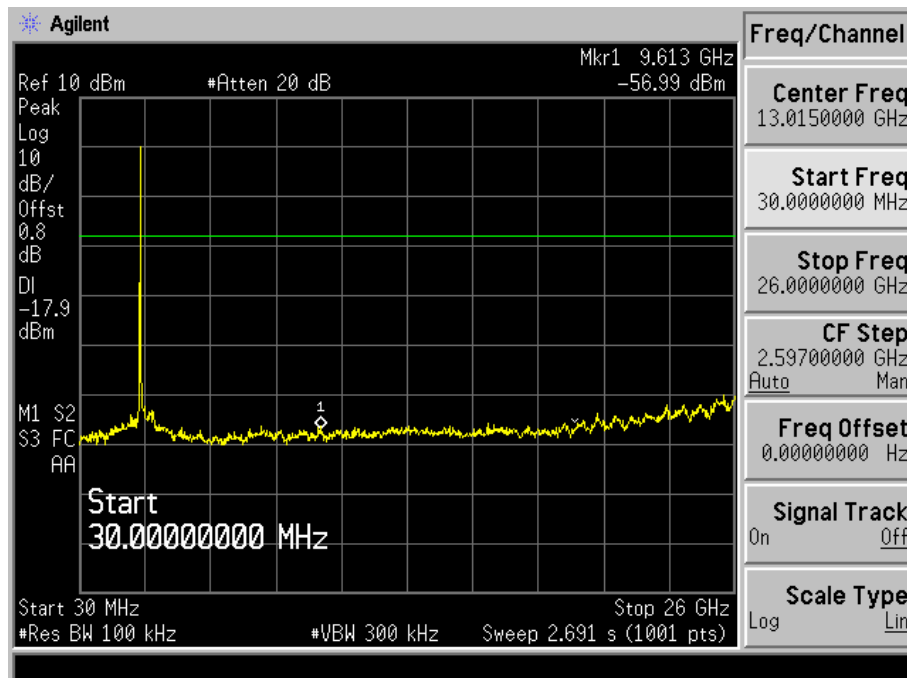
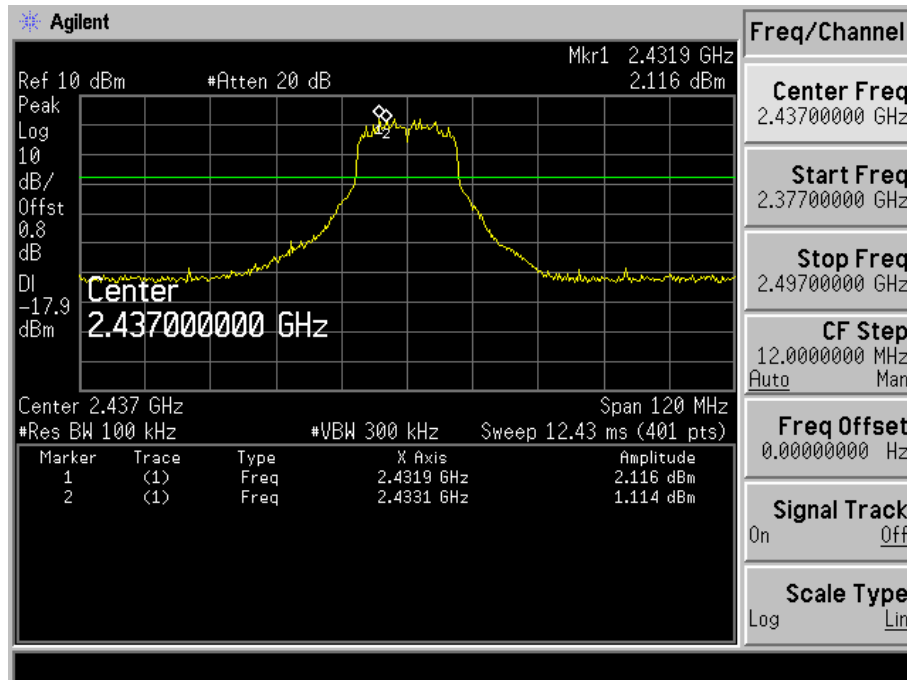
Highest



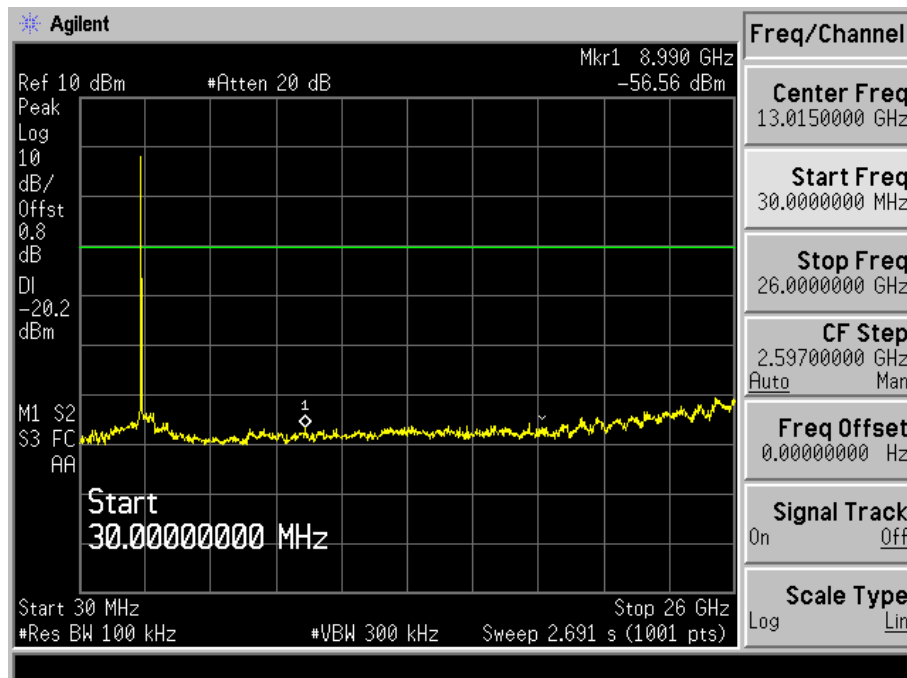
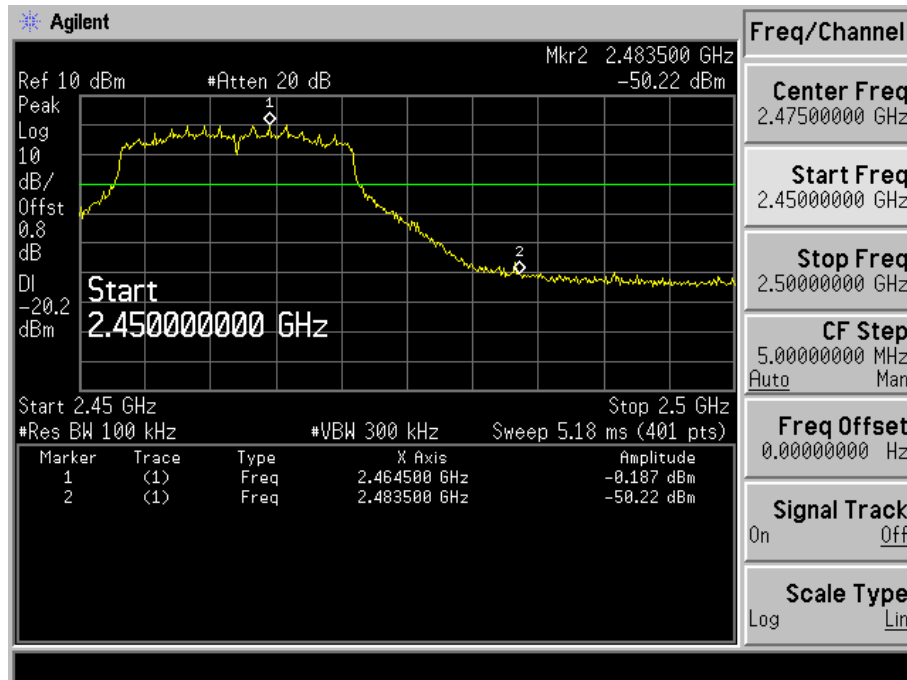
Spurious (Conducted)
802.11n-HT20-Lowest



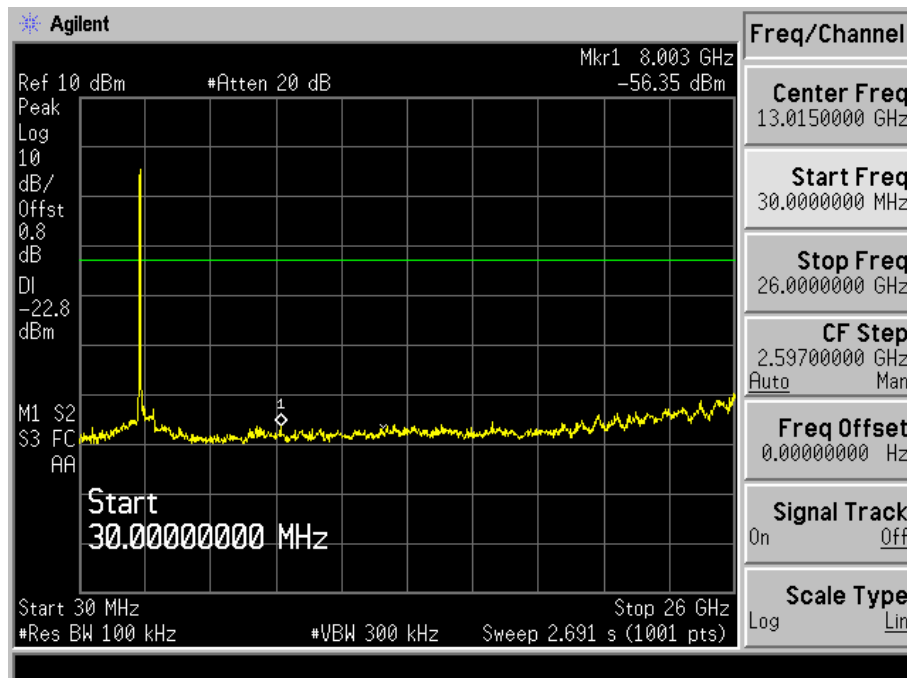
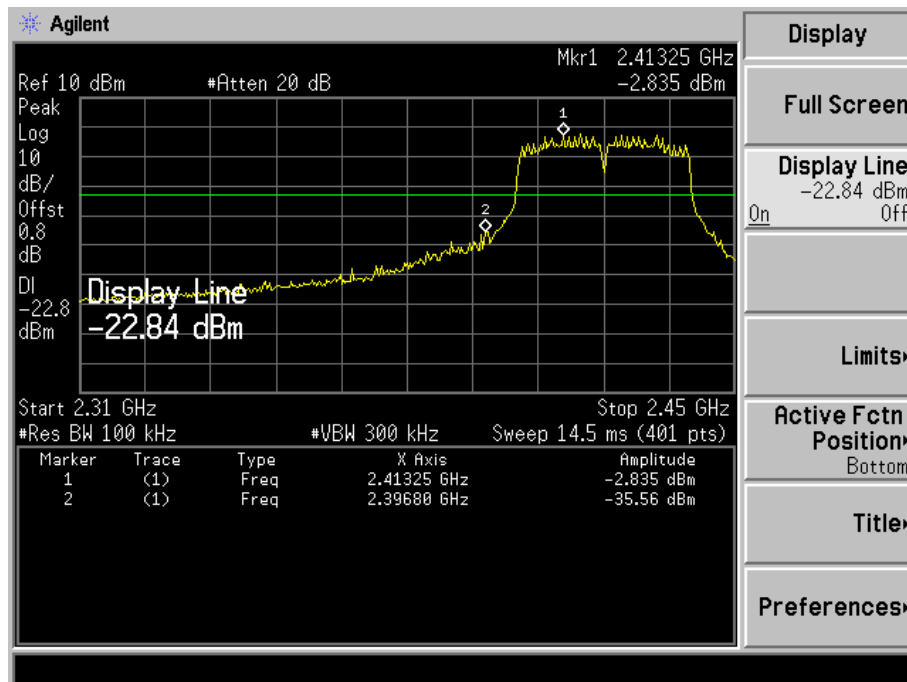
Middle



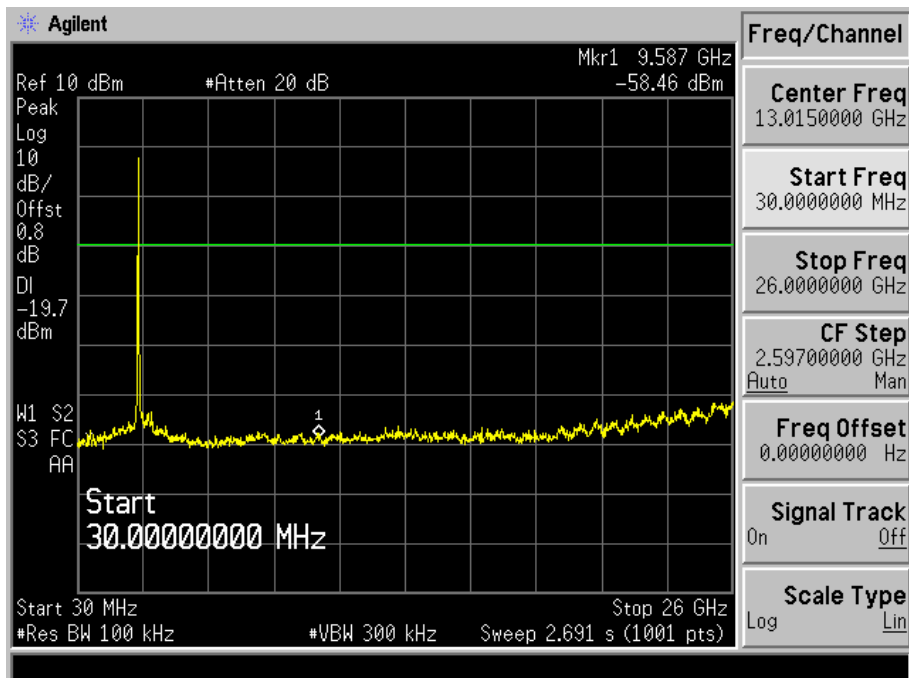
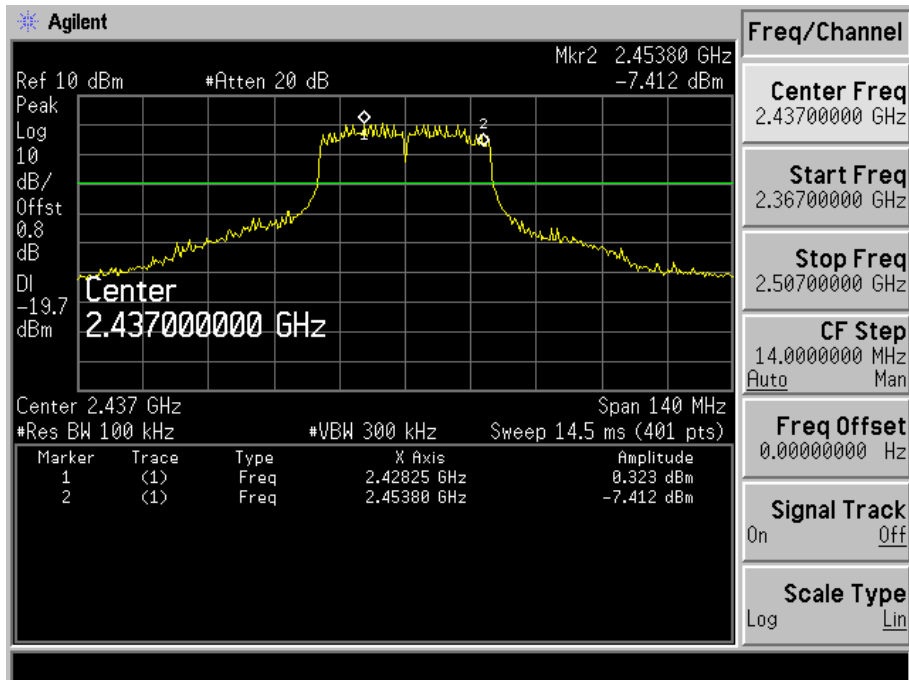
Highest



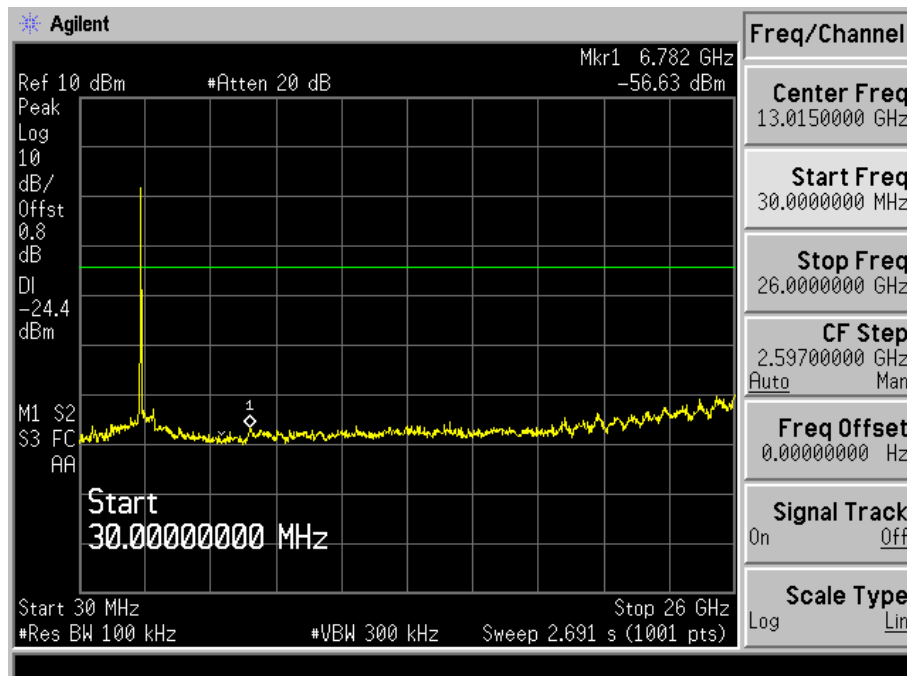
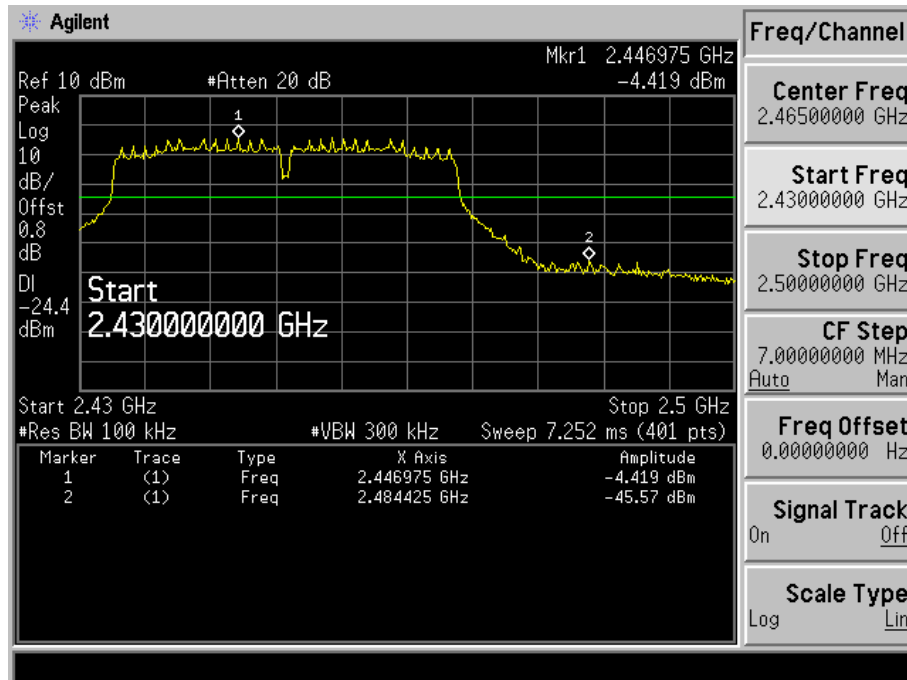
Spurious (Conducted)
802.11n-HT40-Lowest



Middle



Highest



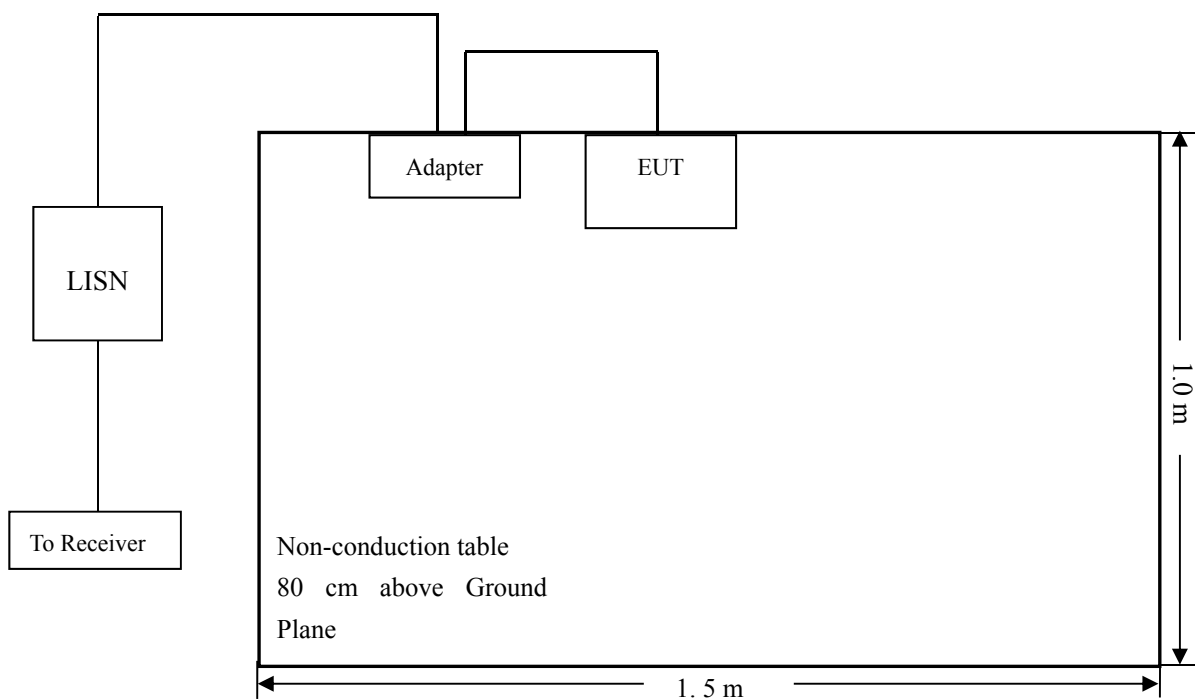
10. Conducted Emissions

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:

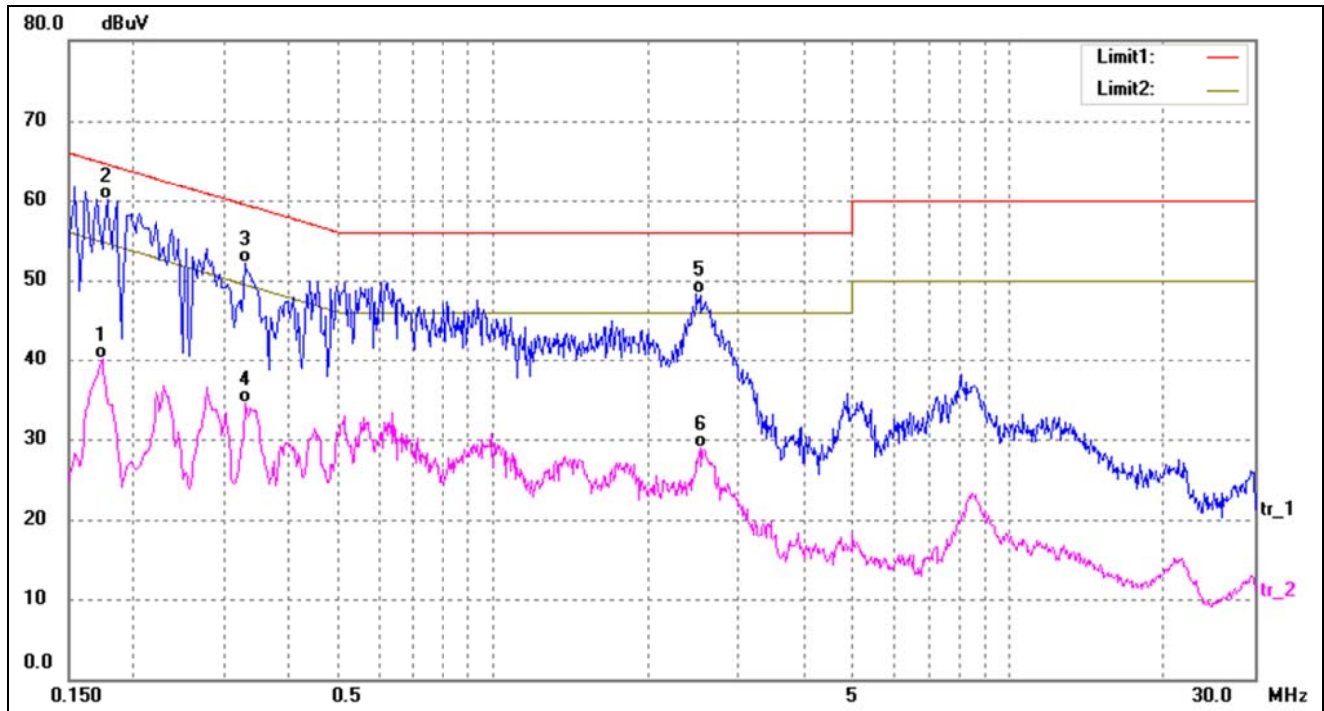
-2.60 dB at 0.1820 MHz in the **Line** mode, **QP** detector, **0.15-30MHz**

10.6 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

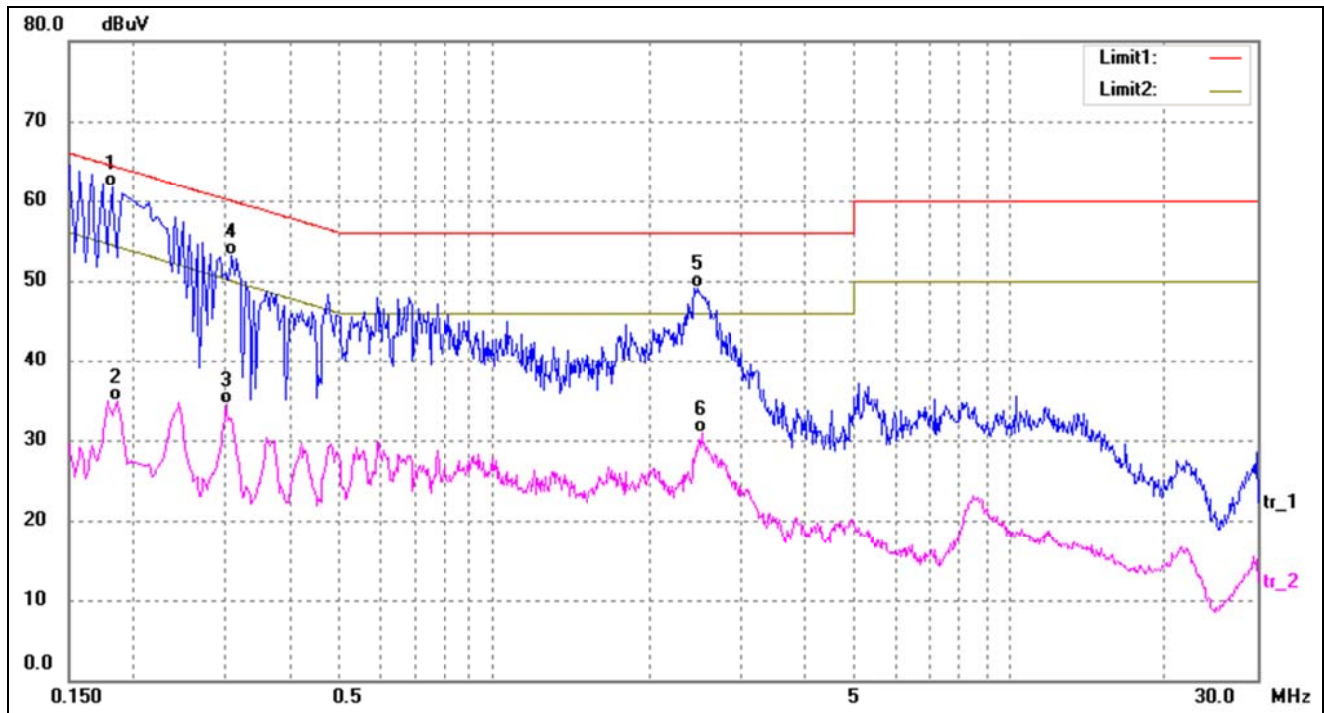
EUT: Tablet PC
Tested Model: 11"TW110
Operating Condition: Transmitting(Wi-Fi)
Comment: AC 120V/60Hz

Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1740	30.20	9.83	40.03	54.77	-14.74	AVG
2*	0.1780	50.38	9.82	60.20	64.58	-4.38	QP
3	0.3300	42.28	9.80	52.08	59.45	-7.37	QP
4	0.3300	24.66	9.80	34.46	49.45	-14.99	AVG
5	2.4820	38.55	9.72	48.27	56.00	-7.73	QP
6	2.5140	19.21	9.72	28.93	46.00	-17.07	AVG

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1820	51.97	9.82	61.79	64.39	-2.60	QP
2	0.1860	25.12	9.81	34.93	54.21	-19.28	AVG
3	0.3020	24.69	9.80	34.49	50.19	-15.70	AVG
4	0.3100	43.38	9.80	53.18	59.97	-6.79	QP
5	2.4420	39.37	9.72	49.09	56.00	-6.91	QP
6	2.5260	21.21	9.72	30.93	46.00	-15.07	AVG

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