FCC Part 15C
Measurement and Test Report

For

ELECTRONICS TECHNOLOGY(DONG GUAN) COMPANY LIMITED

No.161, Xin Min Road, Tong Luo Wei Industrial Zone, Dong Guan, China

FCC ID: ZL9-360M

FCC Rule(s):	FCC Part 15C
Product Description:	Tablet PC
Tested Model:	360M
Report No.:	STR15088130I-4
Tested Date:	2015-08-13 to 2015-08-29
Issued Date:	2015-08-29
Tested By:	Lebron Wang / Engineer
Reviewed By:	Lahm Peng / EMC Manager
Approved & Authorized By:	Jandy so / PSQ Manager
Prepared By:	

Shenzhen SEM.Test Technology Co., Ltd.
1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road,
Bao'an District, Shenzhen, P.R.C.（518101）
Tel.: +86-755-33663308 Fax.: +86-755-33663309 Website: www.semtest.com.cn

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.

TABLE OF CONTENTS

1. GENERAL INFORMATION 3
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) 3
1.2 TEST STANDARDS 4
1.3 TEST METHODOLOGY 4
1.4 TEST FACILITY 4
1.5 EUT SETUP AND TEST MODE 5
1.6 TEST EQUIPMENT LIST AND DETAILS 5
2. SUMMARY OF TEST RESULTS 6
3. RF EXPOSURE 7
3.1 STANDARD APPLICABLE 7
3.2 TEST RESULT 7
4. ANTENNA REQUIREMENT 8
4.1 STANDARD APPLICABLE 8
4.2 EVALUATION INFORMATION 8
5. POWER SPECTRAL DENSITY 9
5.1 STANDARD APPLICABLE 9
5.2 TEST PROCEDURE 9
5.3 ENVIRONMENTAL CONDITIONS 9
5.4 SUMMARY OF TEST RESULTS/PLOTS 10
6. 6DB BANDWIDTH 21
6.1 STANDARD APPLICABLE 21
6.2 TEST PROCEDURE 21
6.3 ENVIRONMENTAL CONDITIONS 21
6.4 SUMMARY OF TEST RESULTS/PLOTS 21
7. RF OUTPUT POWER 32
7.1 STANDARD APPLICABLE 32
7.2 TEST PROCEDURE 32
7.3 ENVIRONMENTAL CONDITIONS 32
7.4 SUMMARY OF TEST RESULTS/PLOTS 33
8. FIELD STRENGTH OF SPURIOUS EMISSIONS 43
8.1 MEASUREMENT UNCERTAINTY 43
8.2 STANDARD APPLICABLE 43
8.3 TEST PROCEDURE 43
8.4 CORRECTED AMPLITUDE & MARGIN CALCULATION 45
8.5 ENVIRONMENTAL CONDITIONS 45
8.6 SUMMARY OF TEST RESULTS/PLOTS 45
9. OUT OF BAND EMISSIONS 88
9.1 STANDARD APPLICABLE 88
9.2 TEST PROCEDURE 88
9.3 ENVIRONMENTAL CONDITIONS 89
9.4 SUMMARY OF TEST RESULTS/PLOTS 89
10. CONDUCTED EMISSIONS 119
10.1 MEASUREMENT UNCERTAINTY 119
10.2 TEST PROCEDURE 119
10.3 BASIC TEST SETUP BLOCK DIAGRAM 119
10.4 ENVIRONMENTAL CONDITIONS 119
10.5 TEST RECEIVER SETUP 120
10.6 SUMMARY OF TEST RESULTS/PLOTS 120
10.7 CONDUCTED EMISSIONS TEST DATA 120

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	ELECTRONICS TECHNOLOGY(DONG GUAN) COMPANY LIMITED
Address of applicant:	No.161, Xin Min Road, Tong Luo Wei Industrial Zone, Dong Guan, China
Manufacturer:	ELECTRONICS TECHNOLOGY(DONG GUAN) COMPANY LIMITED
Address of manufacturer:	No.161, Xin Min Road, Tong Luo Wei Industrial Zone, Dong Guan, China

General Description of EUT	
Product Name:	Tablet PC
Trade Name:	/
Model No.:	360M
Adding Model(s):	Flex 360M, 116M
Rated Voltage:	DC 7.4V battery, Adapter DC 12V charging
Power Adapter Model:	SWN024S120200U1 I/P: AC 100-240V; O/P: DC 12V/2A
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 360M, but the circuit and the electronic construction do not change, declared by the manufacturer.	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz
RF Output Power:	8.19dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels:	11
Channel Separation:	5MHz
Type of Antenna:	Integral
Antenna Gain:	Antenna 1:1dBi, Antenna 2:1dBi,
Lowest Internal Frequency	32.768kHz

1.2 Test Standards

The following report is prepared on behalf of the ELECTRONICS TECHNOLOGY(DONG GUAN) COMPANY LIMITED 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 C63.4-2014, 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 V03r03 for digital transmission systems 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

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

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
Earphone	1.2	Unshielded	Without Core

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
LCD TV	DELL	IN1920C	Q40G18N-700-1B2A

1.6 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
§ 15.207(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 V03r03, 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 kHz ≤ RBW ≤ 100 kHz. .
d) Set VBW ≥3 x RBW.
e) Detector = power averaging (RMS) or sample detector (when RMS not available).
f) Ensure that the number of measurement points in the sweep ≥ 2 x 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

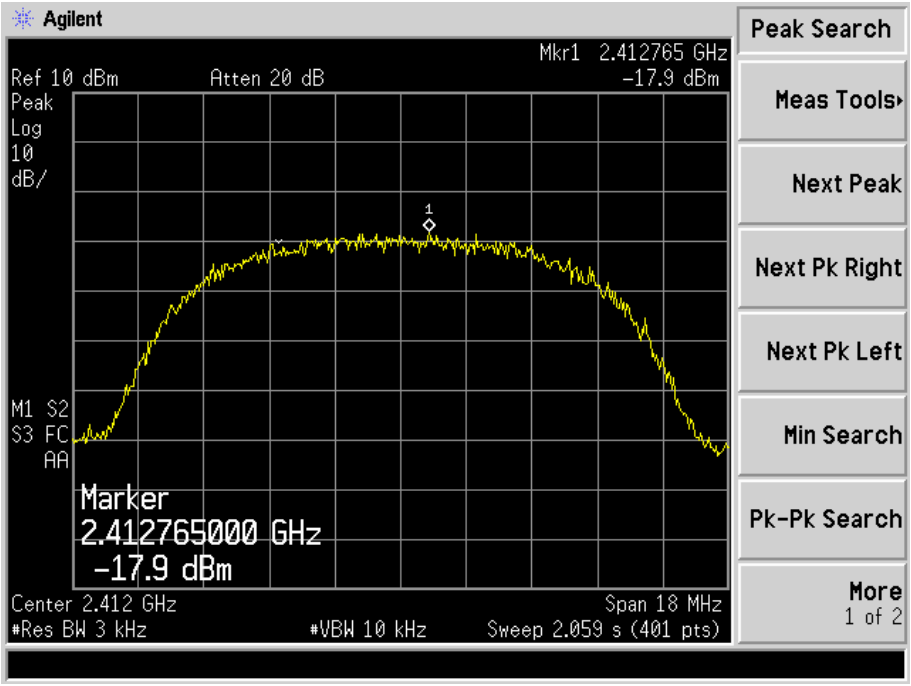
5.4 Summary of Test Results/Plots

Test Mode	Test Channel MHz	Measure 1 dBm/3kHz	Measure 2 dBm/3kHz	Total dBm/3kHz	Limit dBm/3kHz
802.11b	2412	-17.90	-17.25	-14.55	8
	2437	-16.65	-17.32	-13.96	8
	2462	-18.14	-17.64	-14.87	8
802.11g	2412	-20.97	-22.64	-18.71	8
	2437	-20.97	-21.04	-17.99	8
	2462	-21.27	-21.18	-18.21	8
802.11n HT20	2412	-20.97	-20.09	-17.50	8
	2437	-20.43	-19.85	-17.12	8
	2462	-21.05	-21.55	-18.28	8

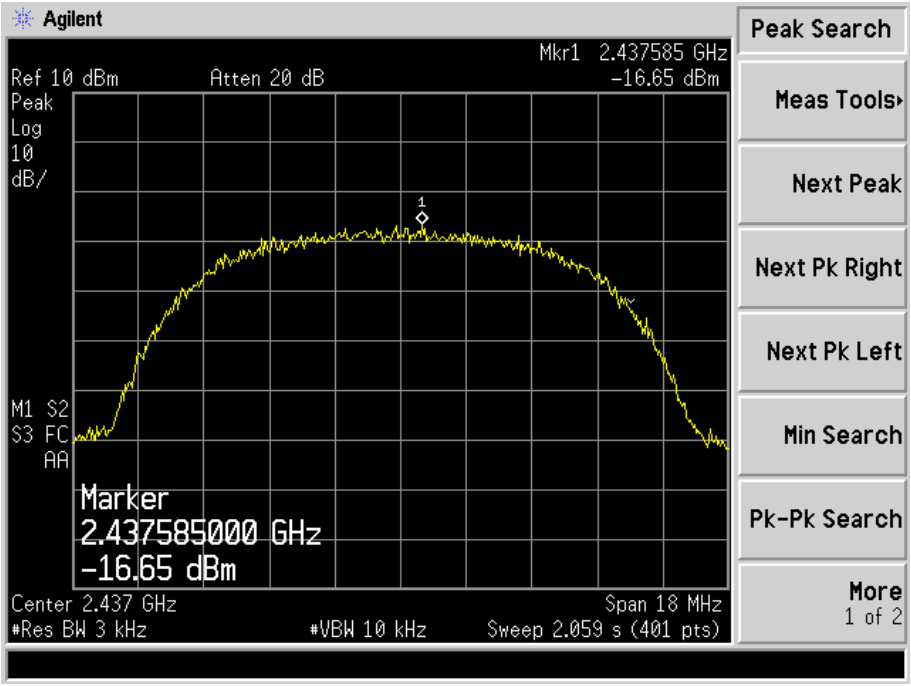
Please refer to the following test plots:

Antenna 1

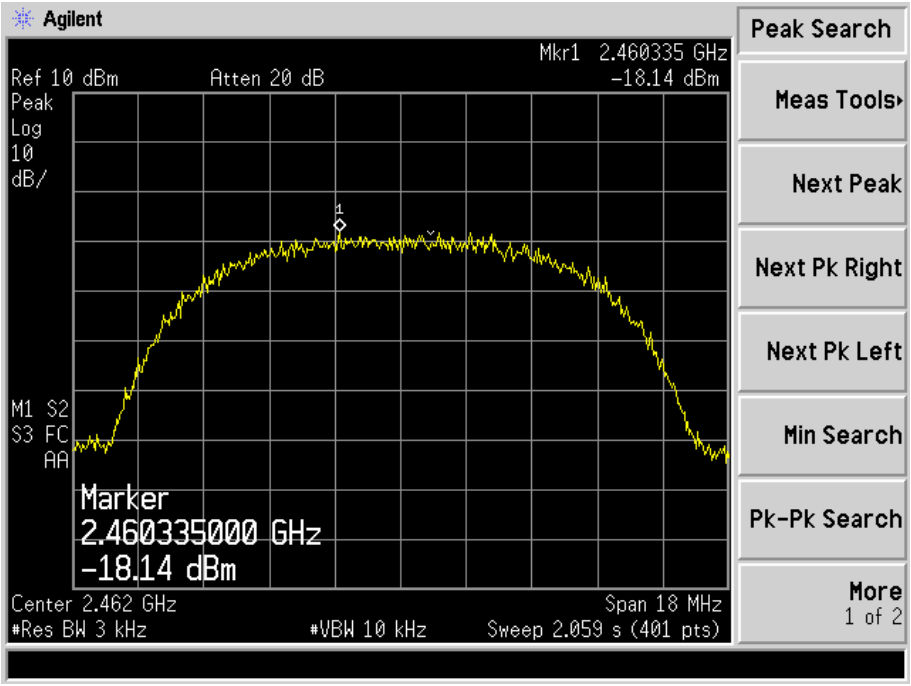
802.11b-Low Channel



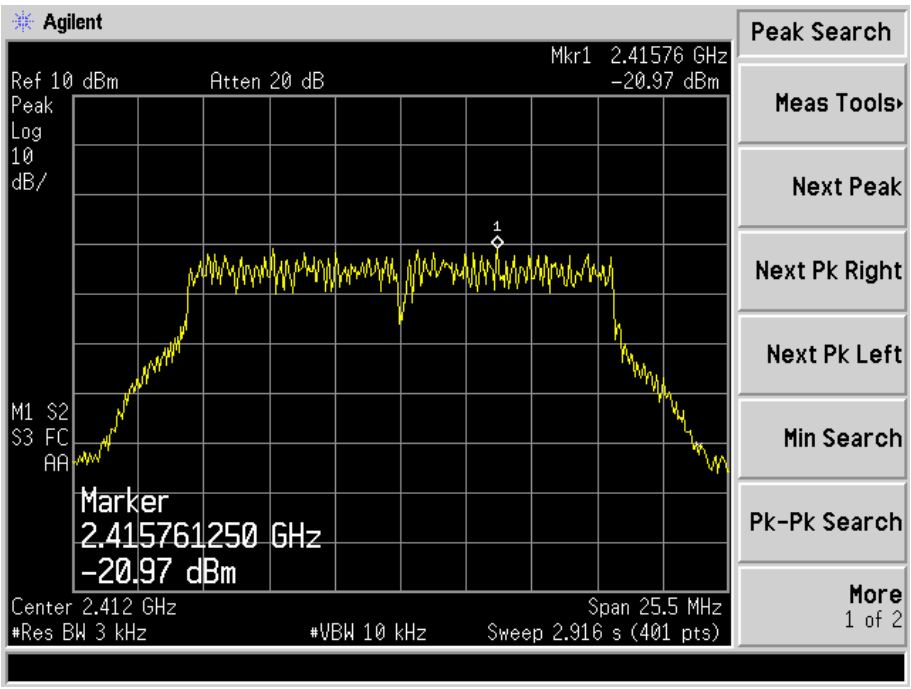
802.11b-Middle Channel



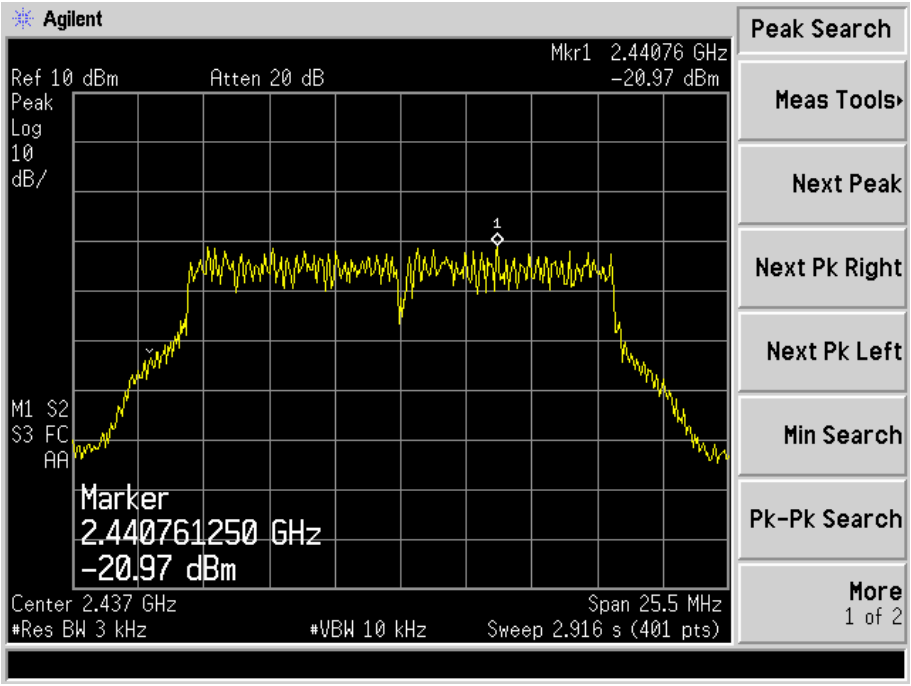
802.11b-High Channel



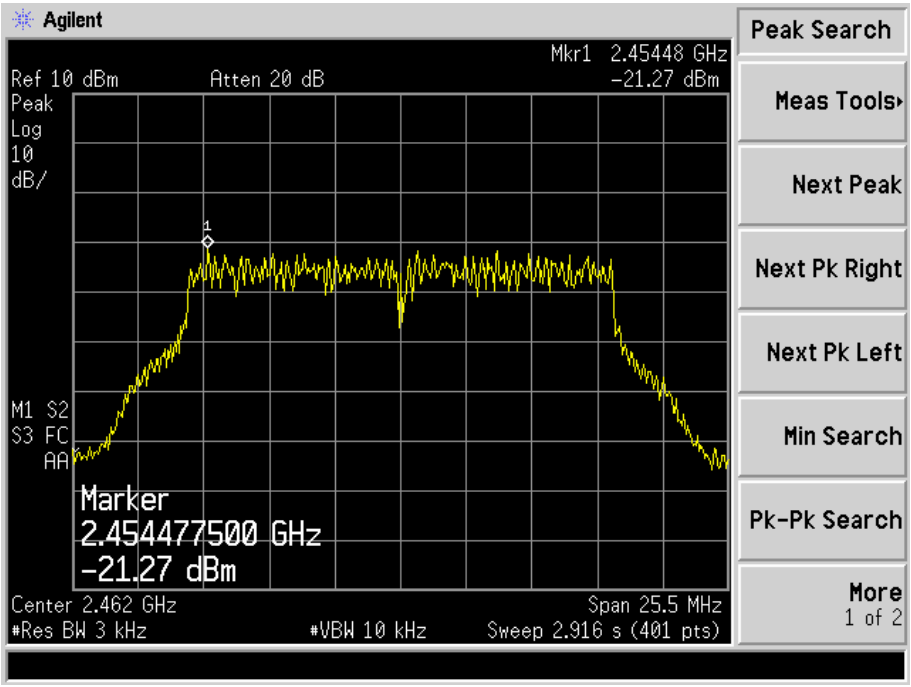
802.11g-Low Channel



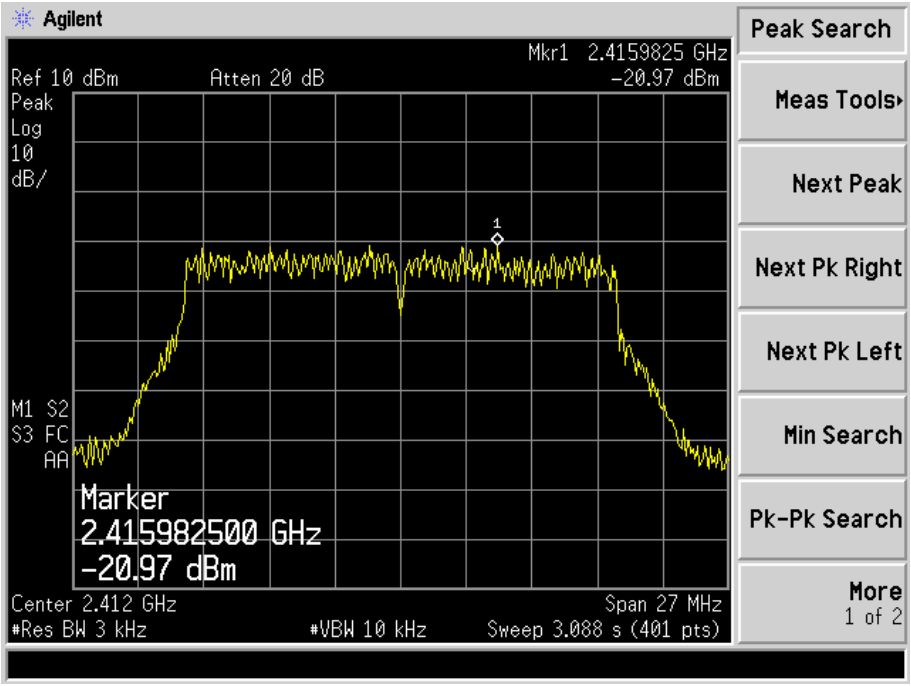
802.11g-Middle Channel



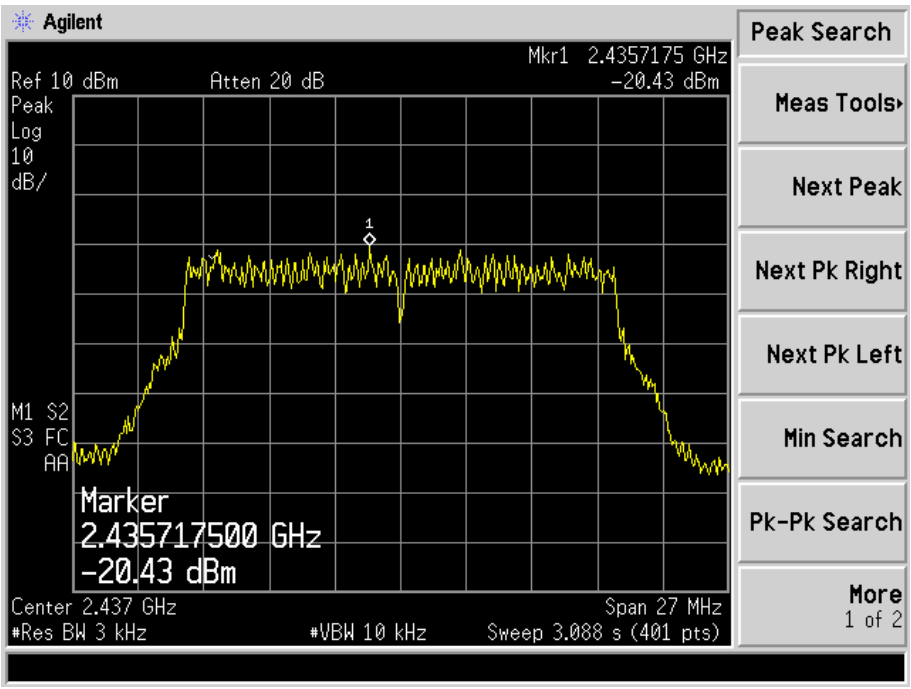
802.11g-High Channel



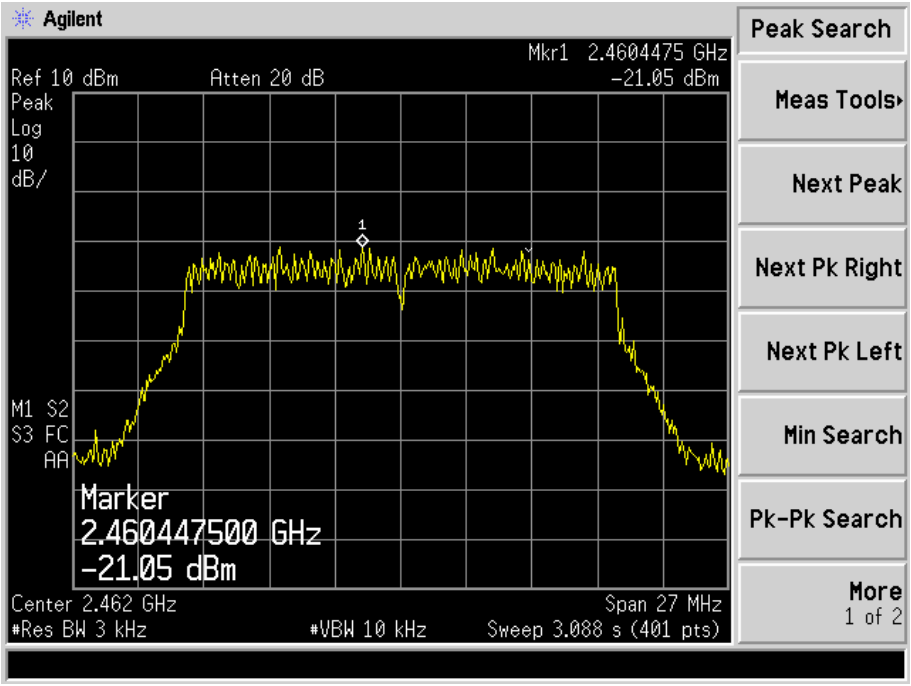
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel

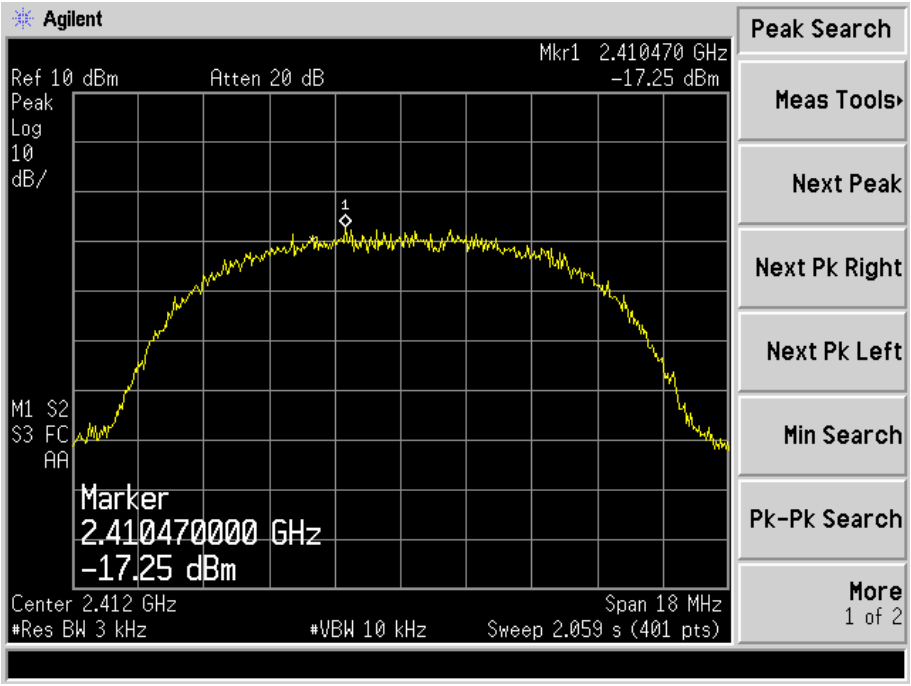


802.11n-HT20-High Channel

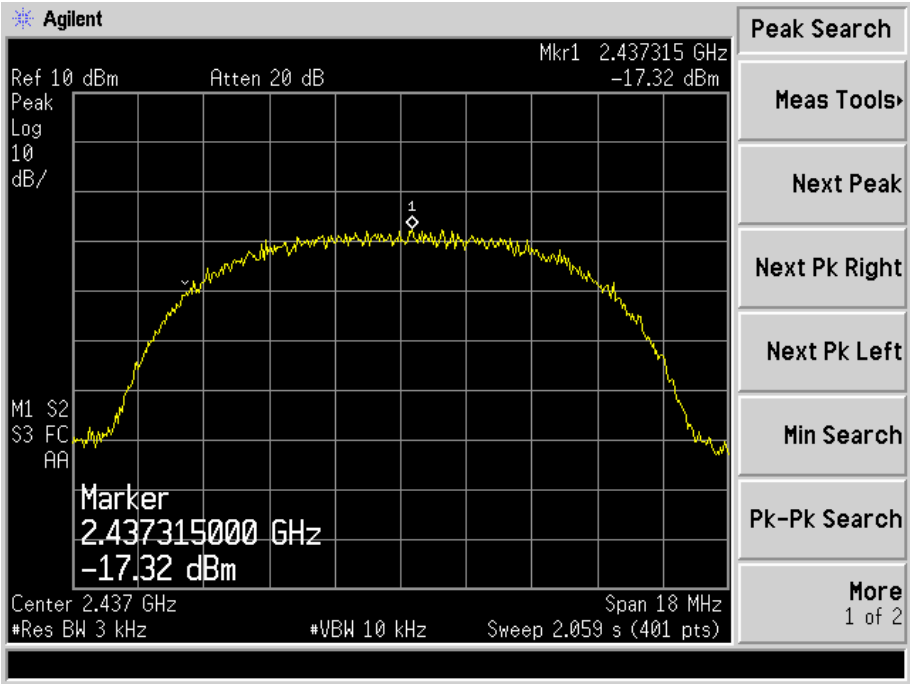


Antenna 2

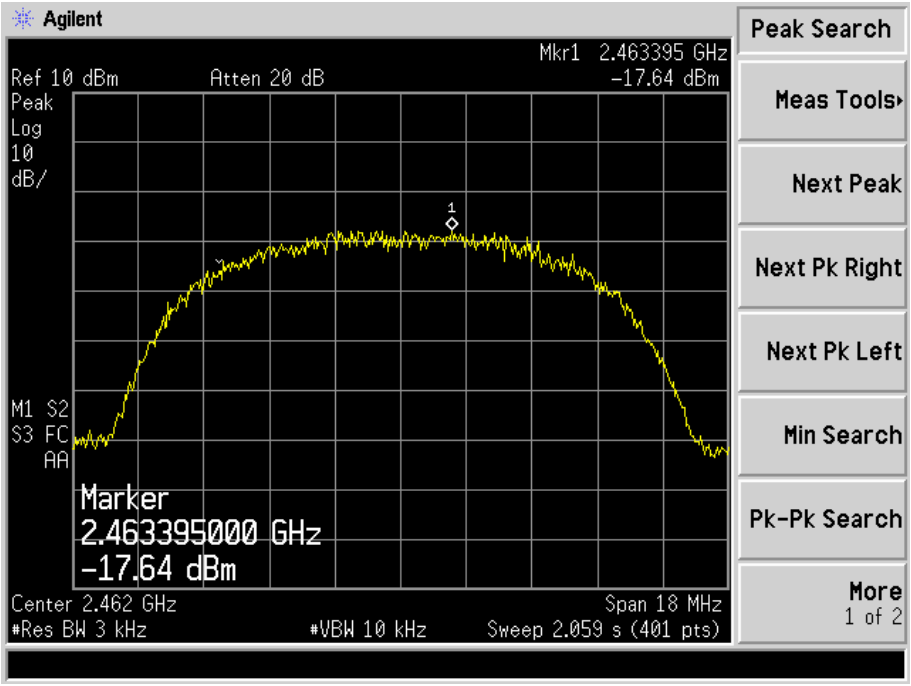
802.11b-Low Channel



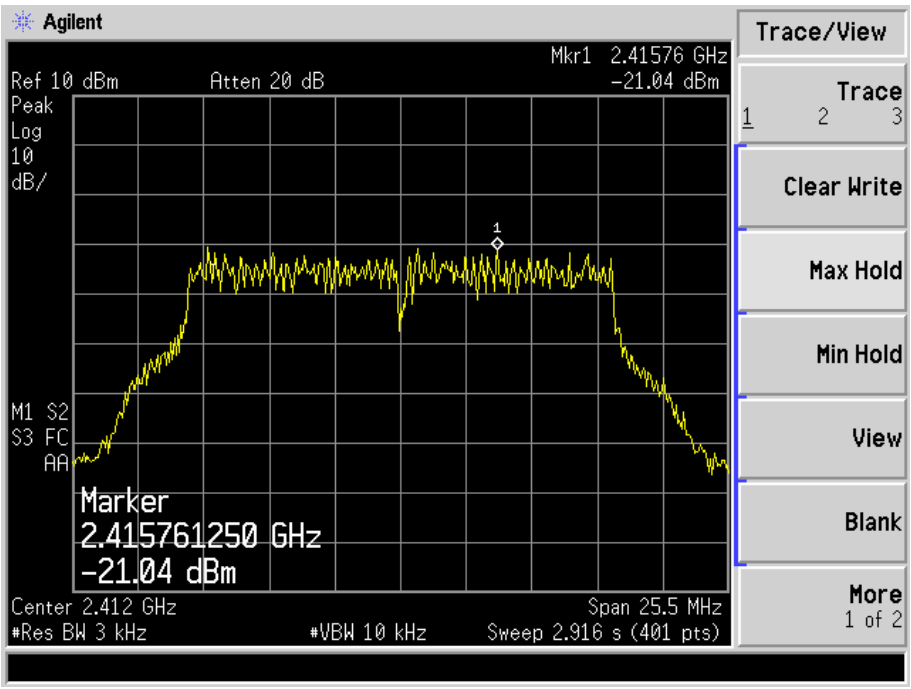
802.11b-Middle Channel



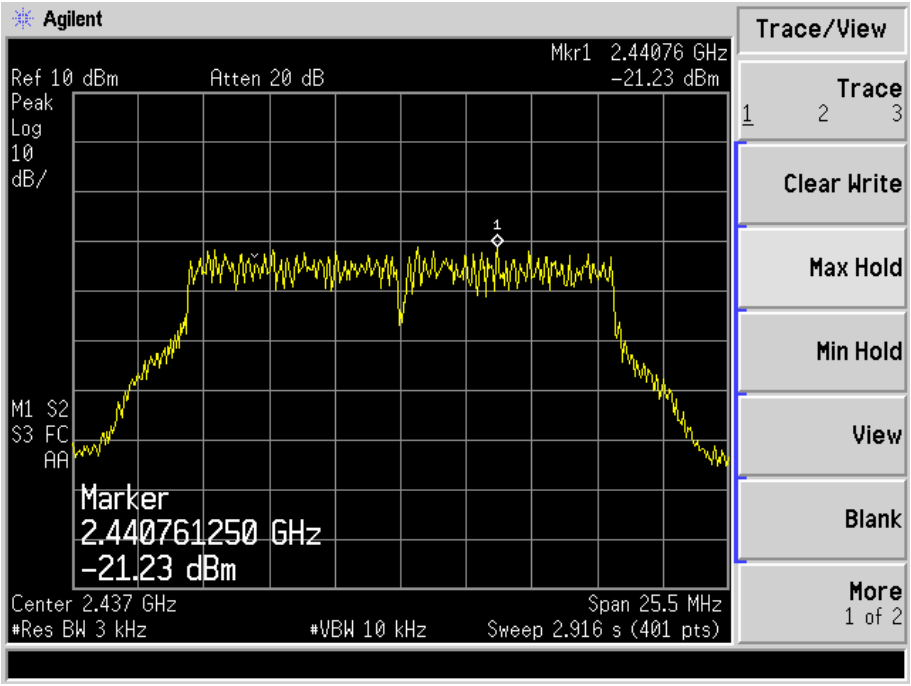
802.11b-High Channel



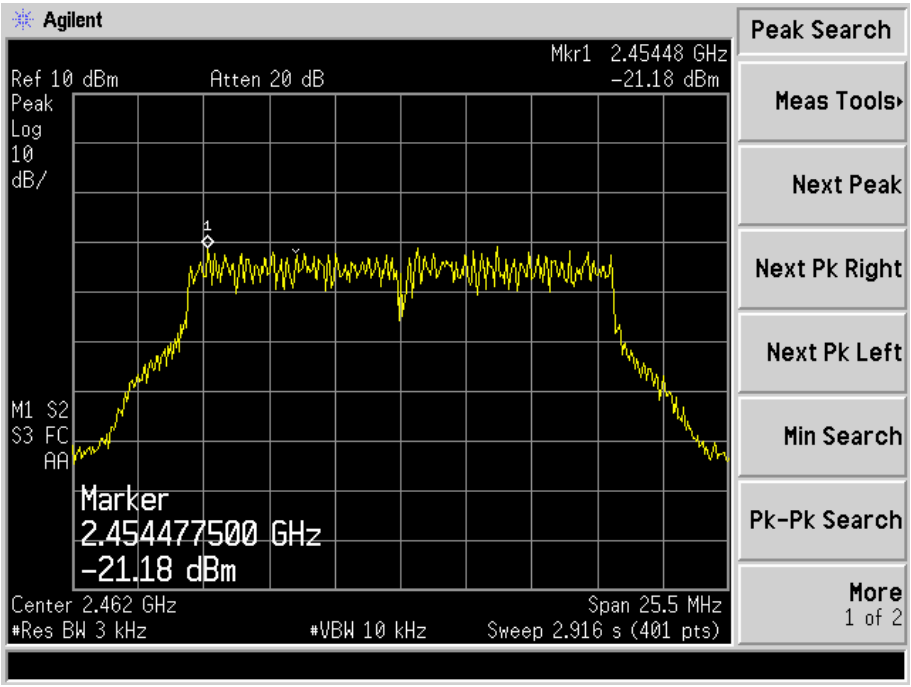
802.11g-Low Channel



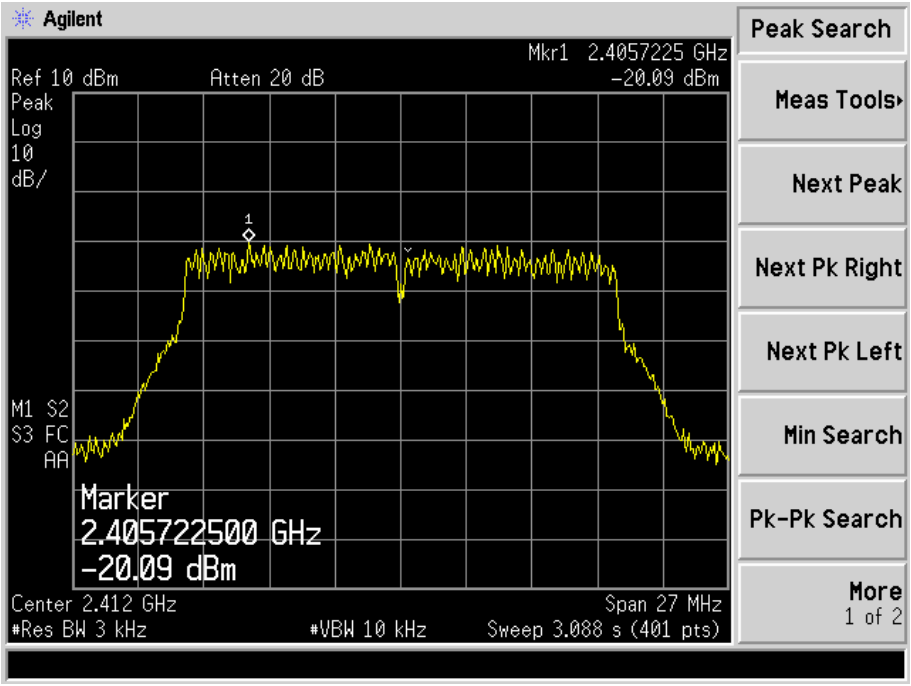
802.11g-Middle Channel



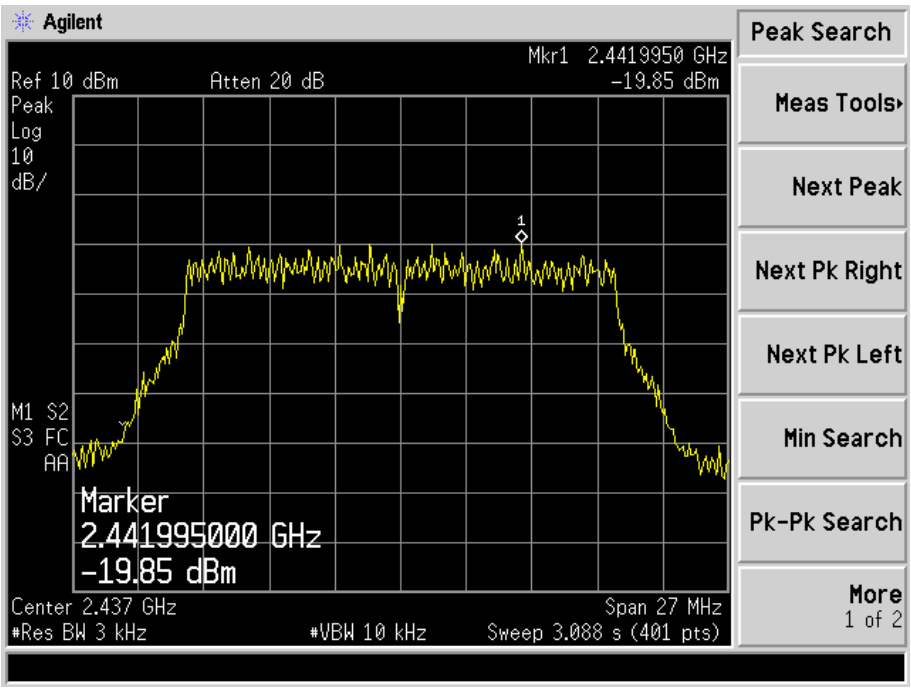
802.11g-High Channel



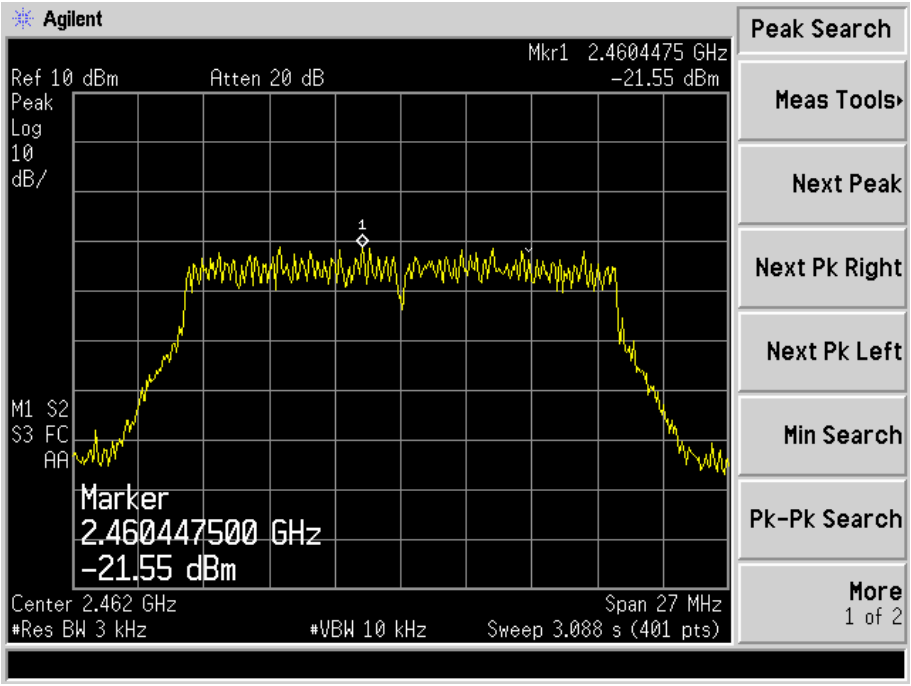
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel



802.11n-HT20-High Channel



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) ≥ 3 × 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 1

Test Mode	Test Channel MHz	6 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz
802.11b	2412	8780	11551.5	≥500
	2437	8826	11577.7	≥500
	2462	9191	11565.0	≥500
802.11g	2412	16453	16445.6	≥500
	2437	16505	16467.9	≥500
	2462	16449	16452.7	≥500
802.11n-HT20	2412	17658	17669.6	≥500
	2437	17619	17630.1	≥500
	2462	17736	17662.4	≥500

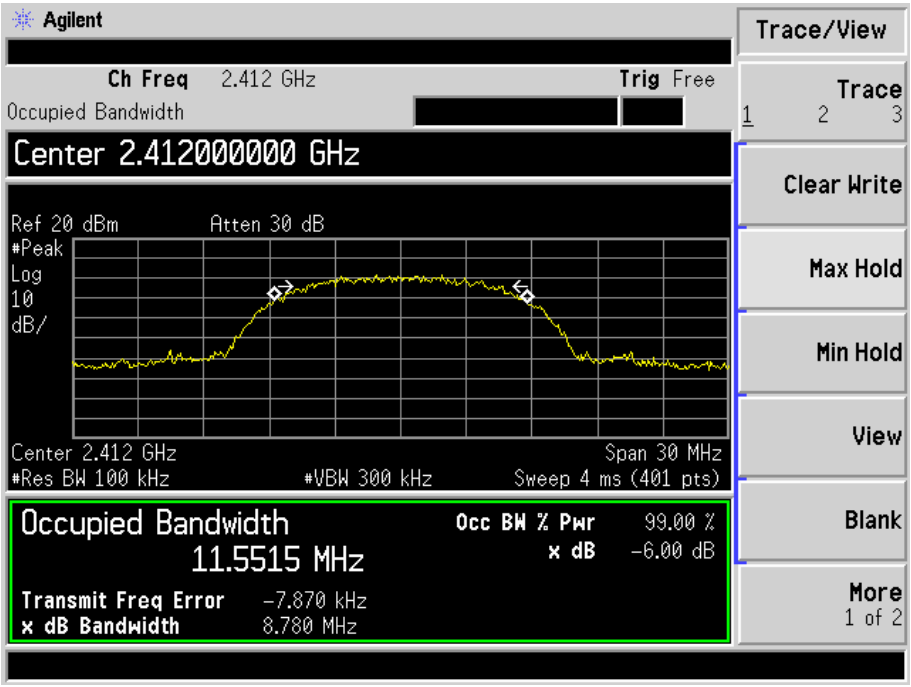
Antenna 2

Test Mode	Test Channel MHz	6 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz
802.11b	2412	9173	11605.1	≥500
	2437	8826	11595.8	≥500
	2462	9191	11609.6	≥500
802.11g	2412	16448	16425.8	≥500
	2437	16470	16454.2	≥500
	2462	16503	16466.2	≥500
802.11n-HT20	2412	17638	17641.1	≥500
	2437	17670	17623.8	≥500
	2462	17640	17654.1	≥500

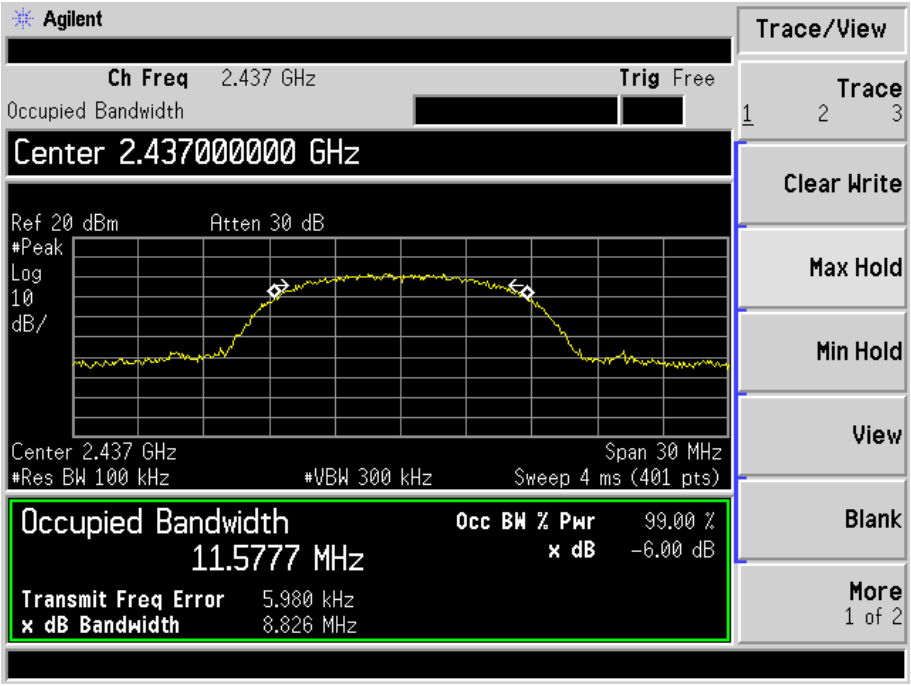
Please refer to the following test plots:

Antenna 1

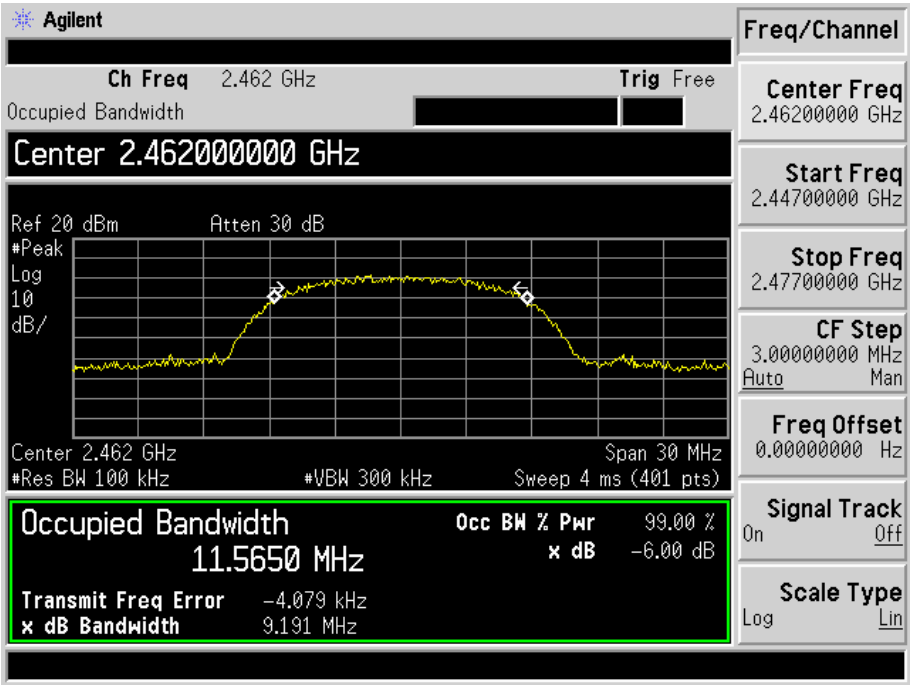
802.11b-Low Channel



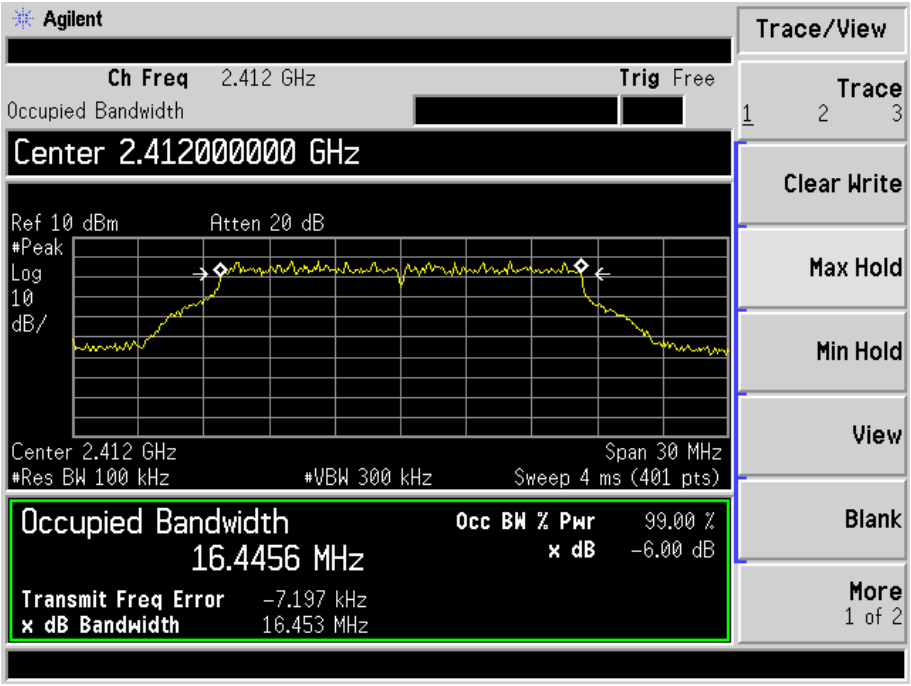
802.11b-Middle Channel



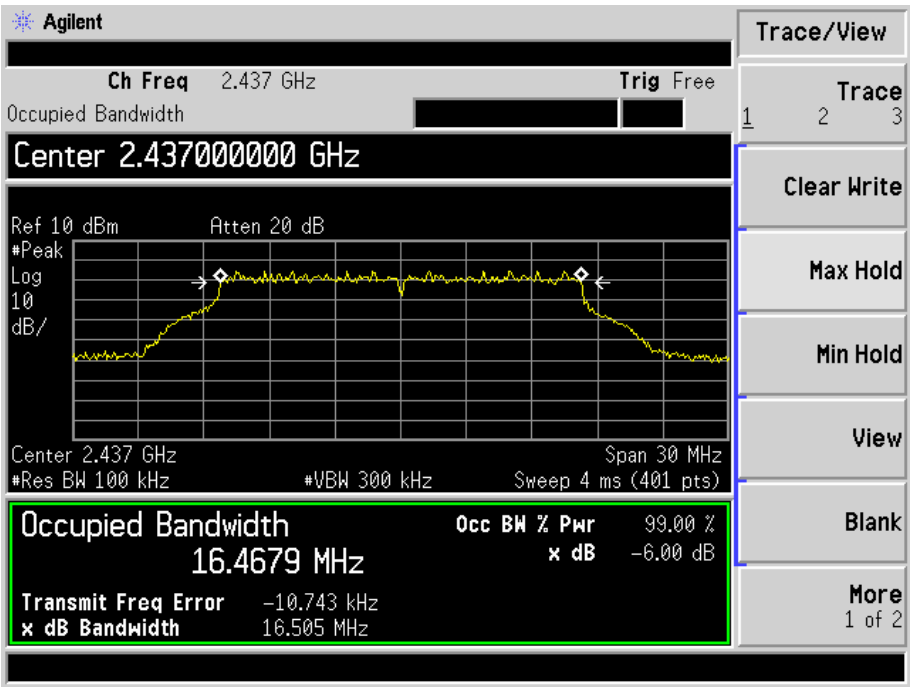
802.11b-High Channel



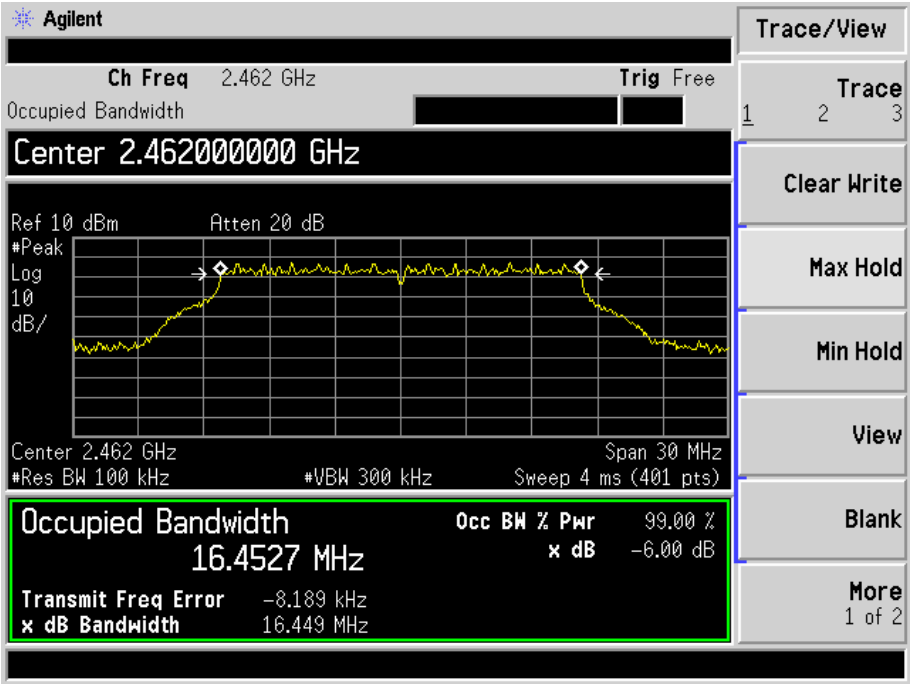
802.11g-Low Channel



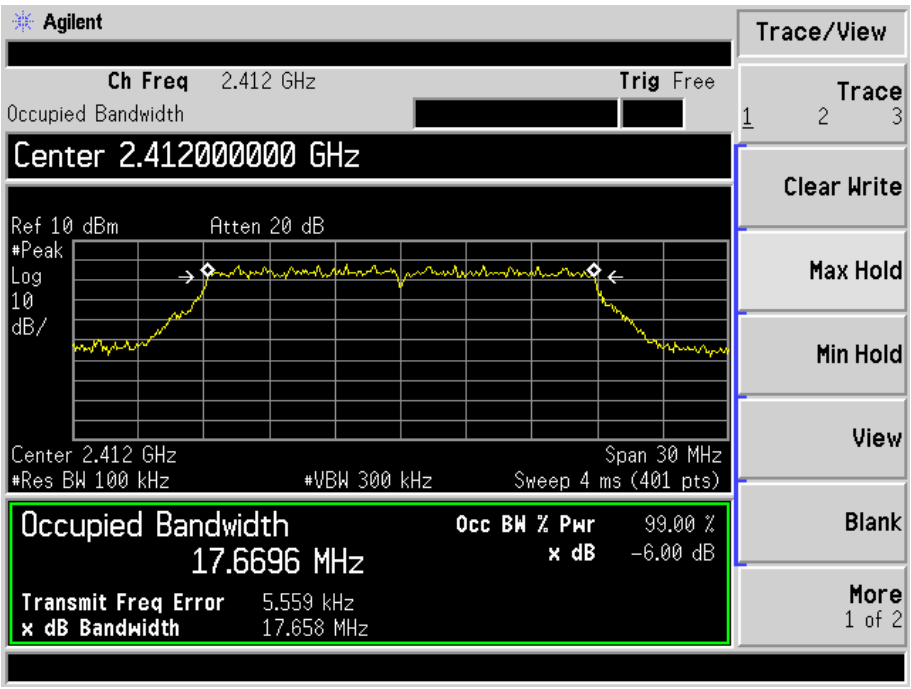
802.11g-Middle Channel



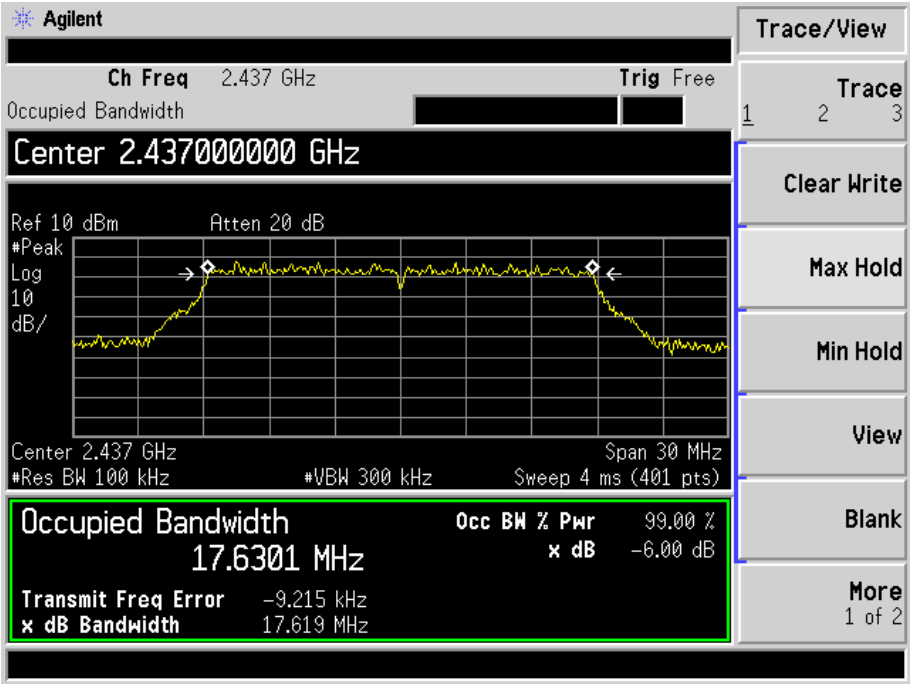
802.11g-High Channel



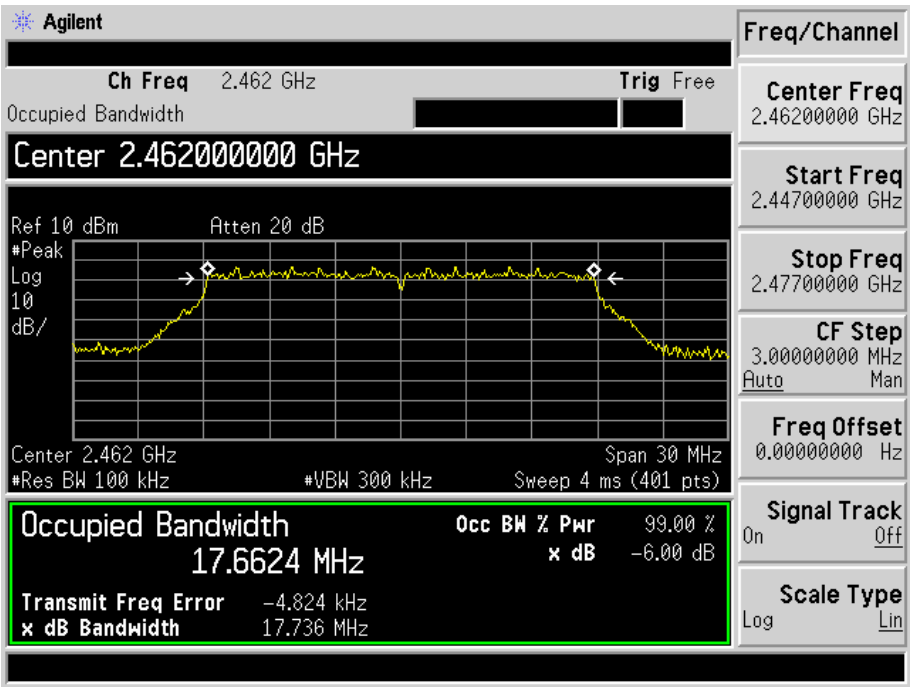
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel

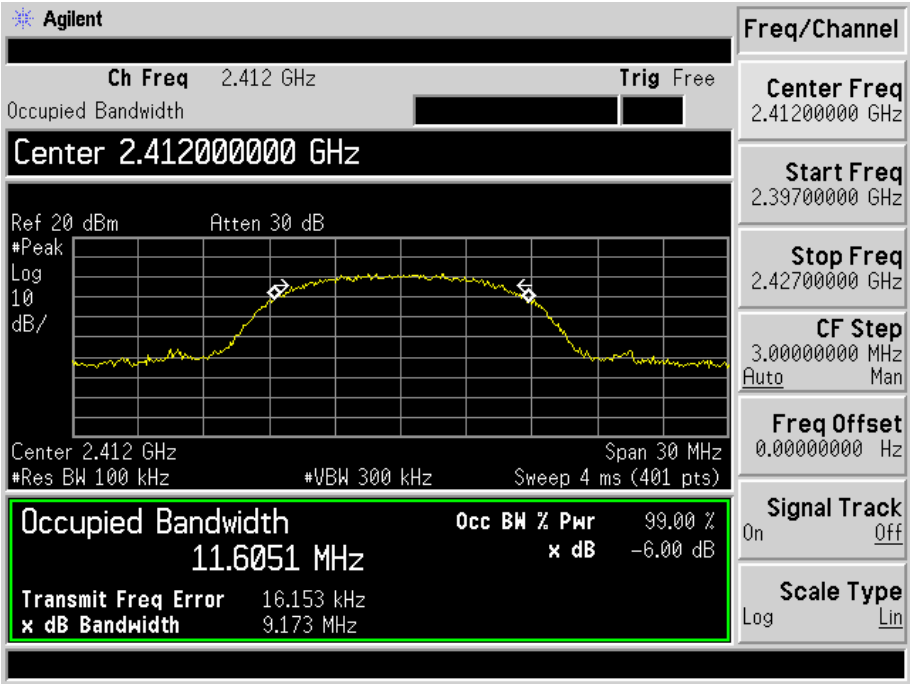


802.11n-HT20-High Channel

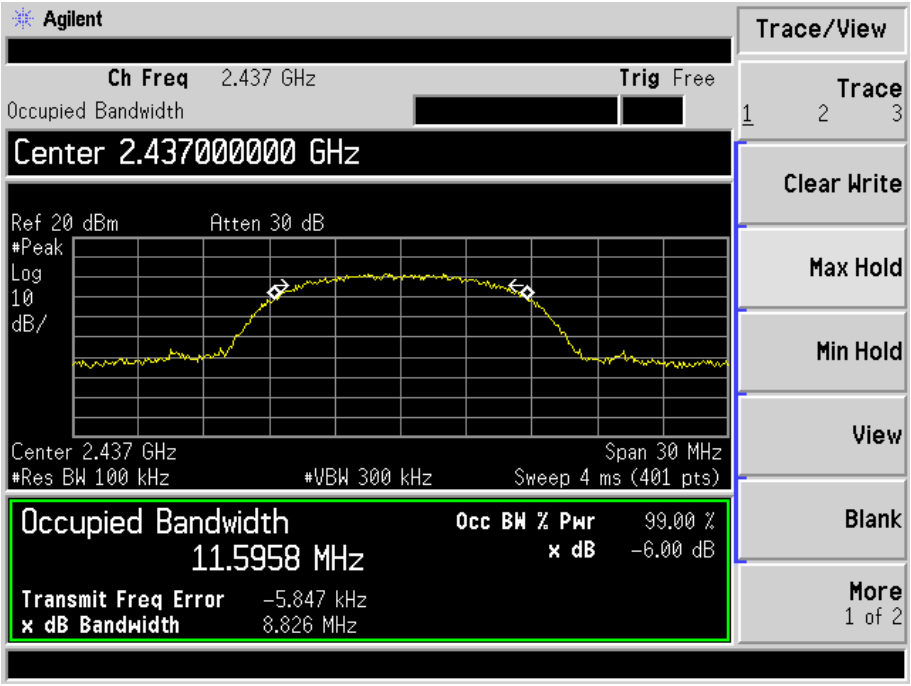


Antenna 2

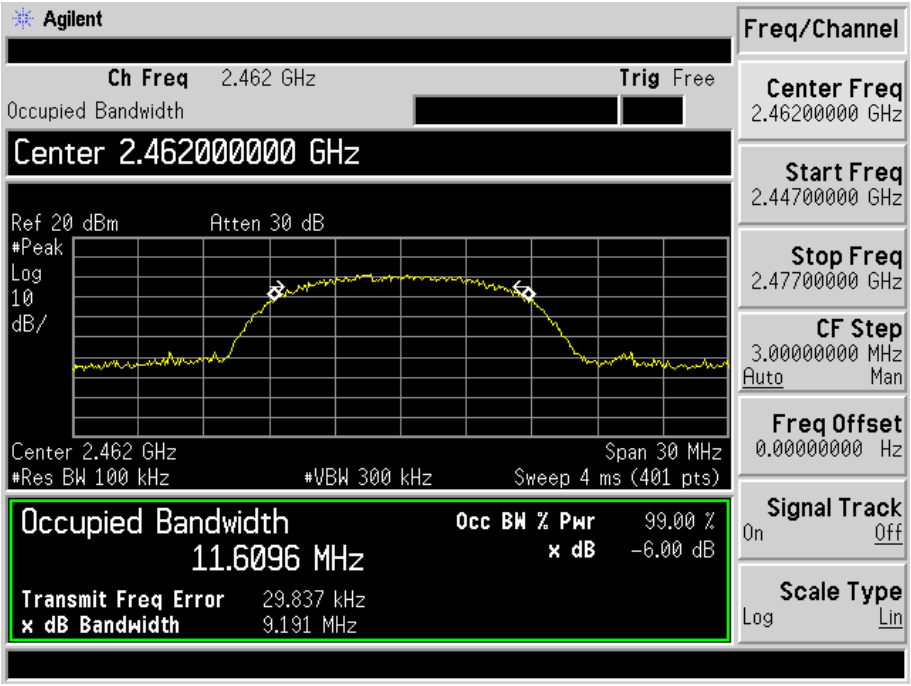
802.11b-Low Channel



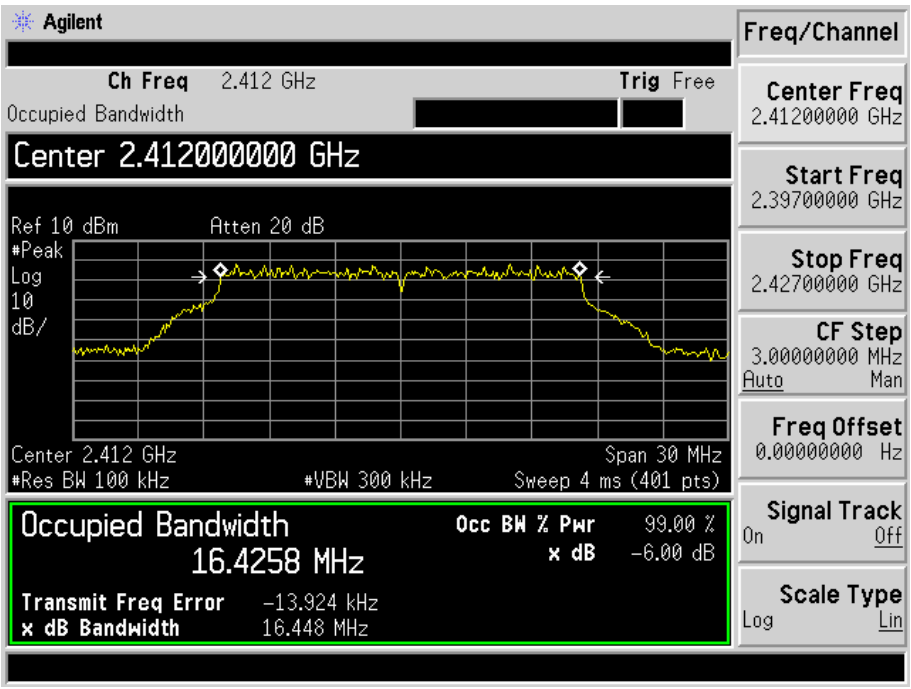
802.11b-Middle Channel



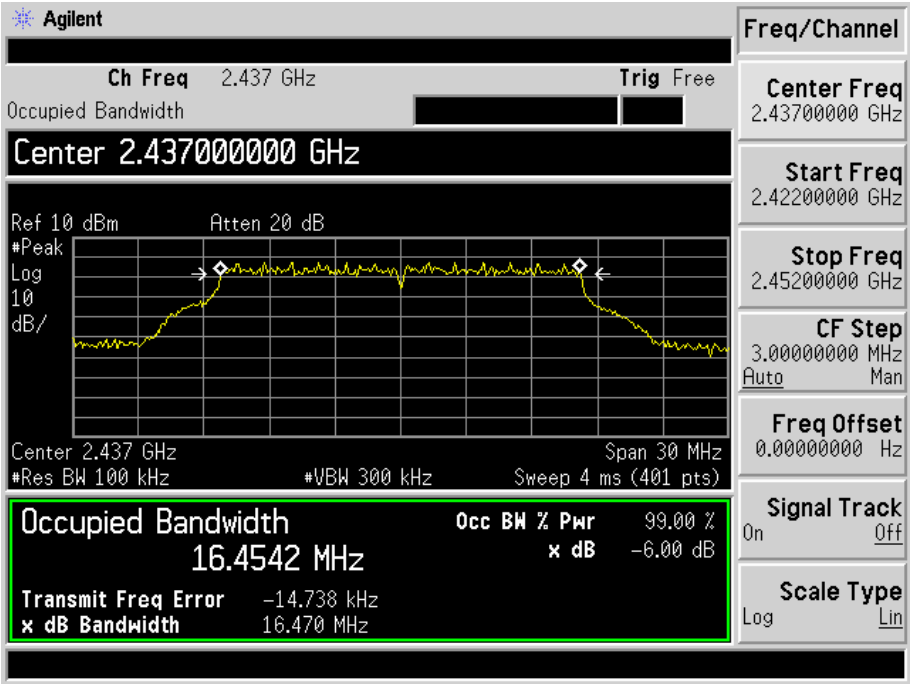
802.11b-High Channel



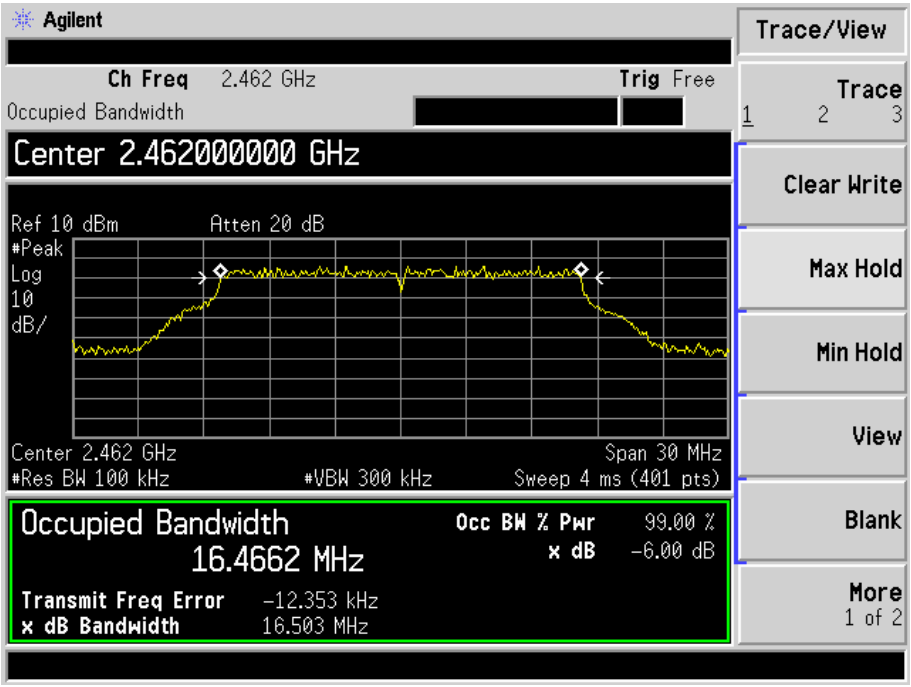
802.11g-Low Channel



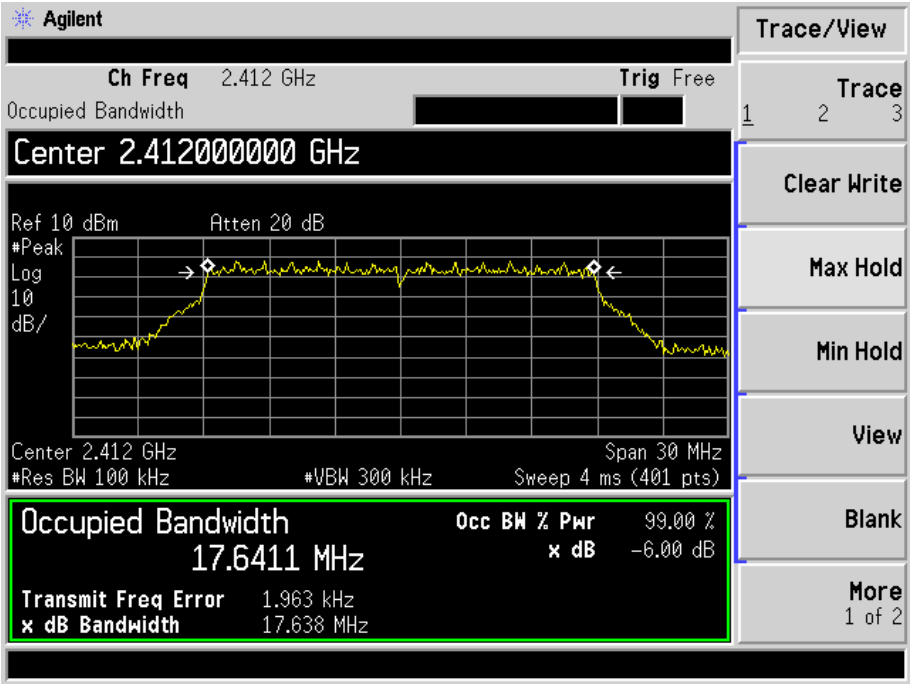
802.11g-Middle Channel



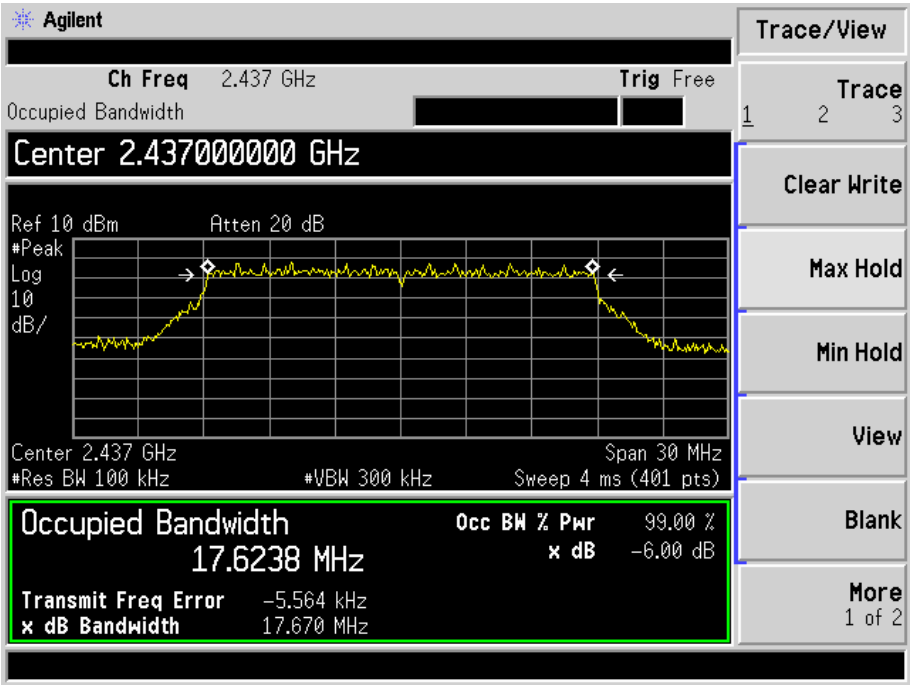
802.11g-High Channel



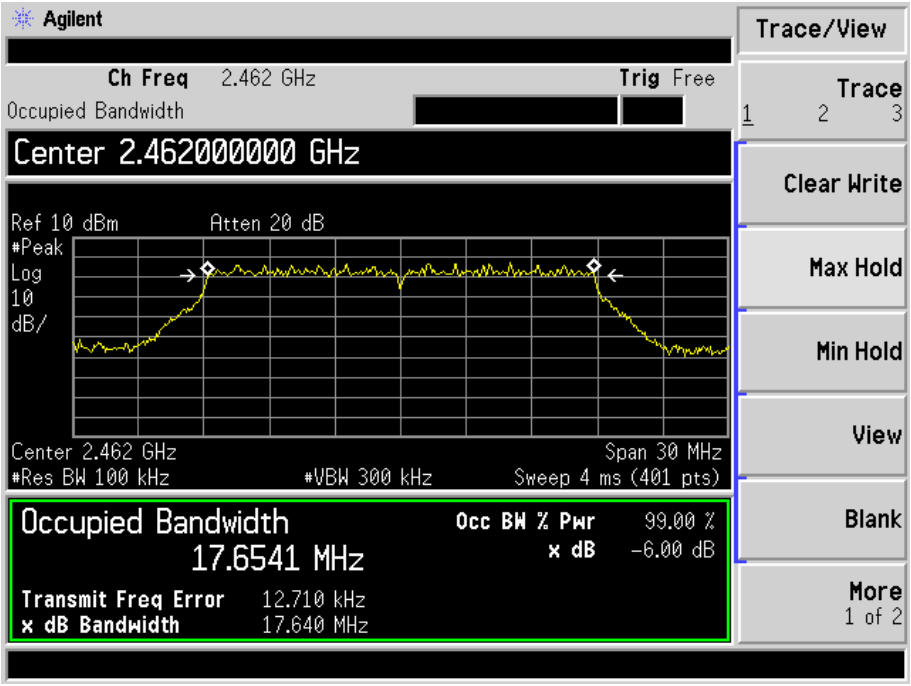
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel



802.11n-HT20-High Channel



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 section 15.247(b)-power output of the KDB-558074 D01 V03r03, 9.2.2.2 (channel integration method) 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 ≥ 3 x RBW.
d) Number of points in sweep ≥ 2 × span / RBW. (This gives bin-to-bin spacing ≤ 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

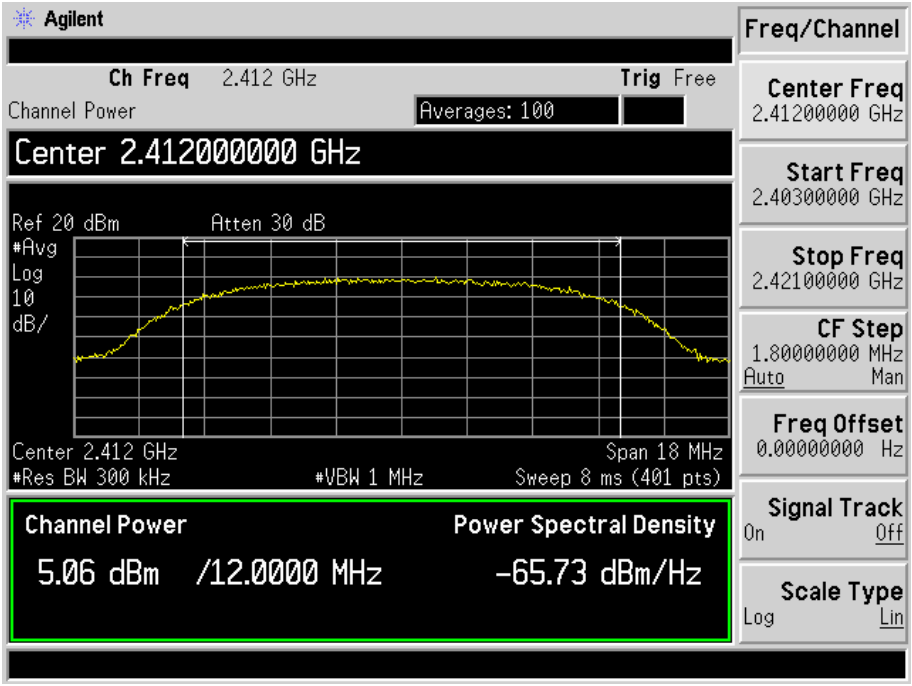
7.4 Summary of Test Results/Plots

Test Mode	Frequency MHz	Reading 1 dBm	Reading 2 dBm	Power dBm	Power mW	Limit mW
802.11b _ 11Mbps	2412	5.06	4.98	8.03	6.35	1000
	2437	5.23	5.13	8.19	6.59	1000
	2462	4.92	4.89	7.92	6.19	1000
802.11g_54Mbps	2412	3.67	3.77	6.73	4.71	1000
	2437	3.67	3.66	6.68	4.65	1000
	2462	3.11	3.08	6.11	4.08	1000
802.11n HT20_MCS7	2412	3.79	3.40	6.61	4.58	1000
	2437	3.50	3.40	6.46	4.43	1000
	2462	2.95	2.93	5.95	3.94	1000

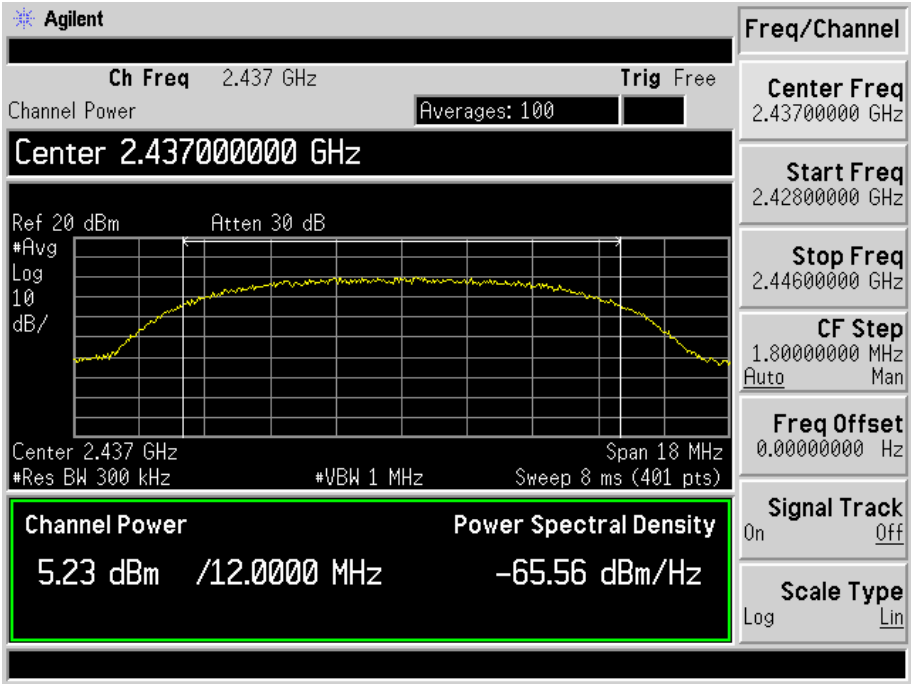
Please refer to the following test plots:

Antenna 1

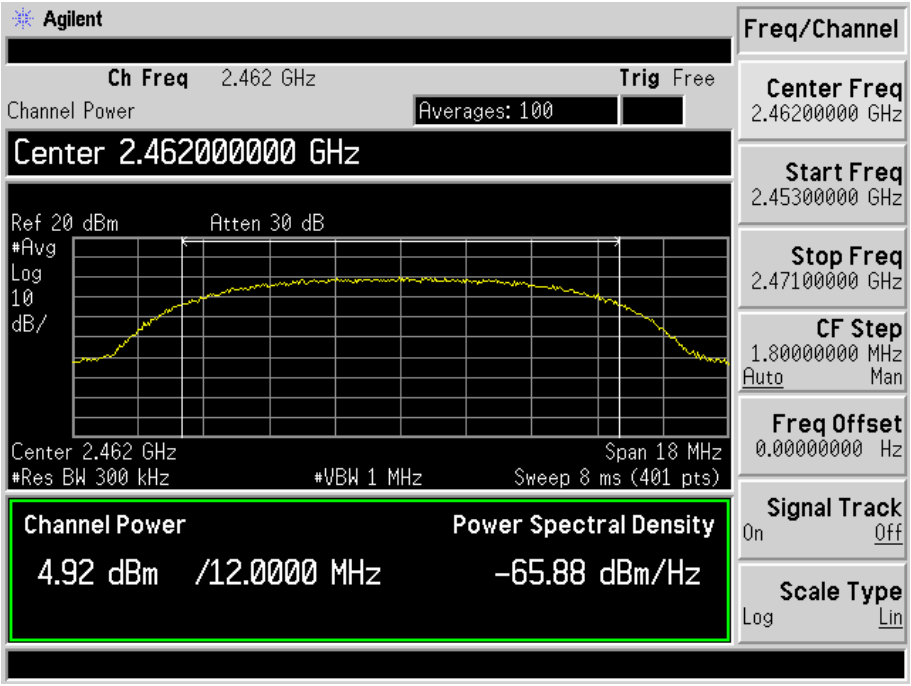
802.11b-11Mbps-Low Channel



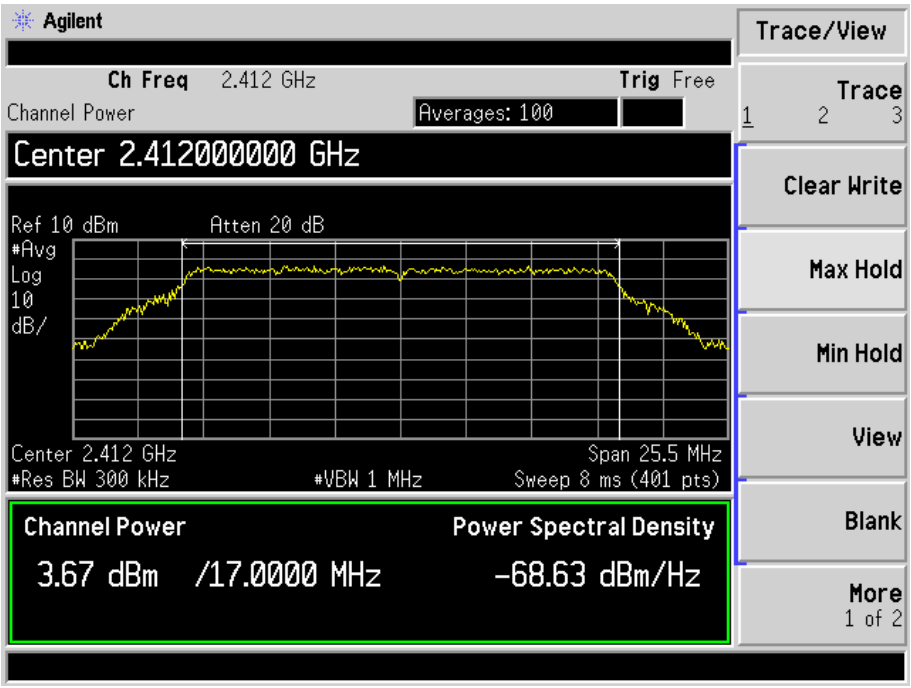
802.11b -11Mbps-Middle Channel



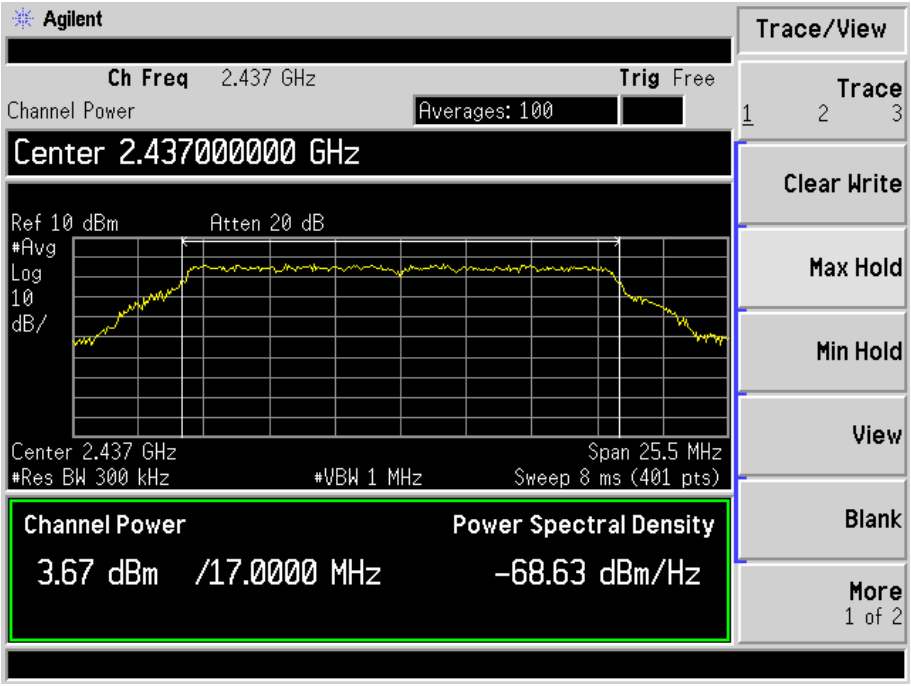
802.11b -11Mpbs-High Channel



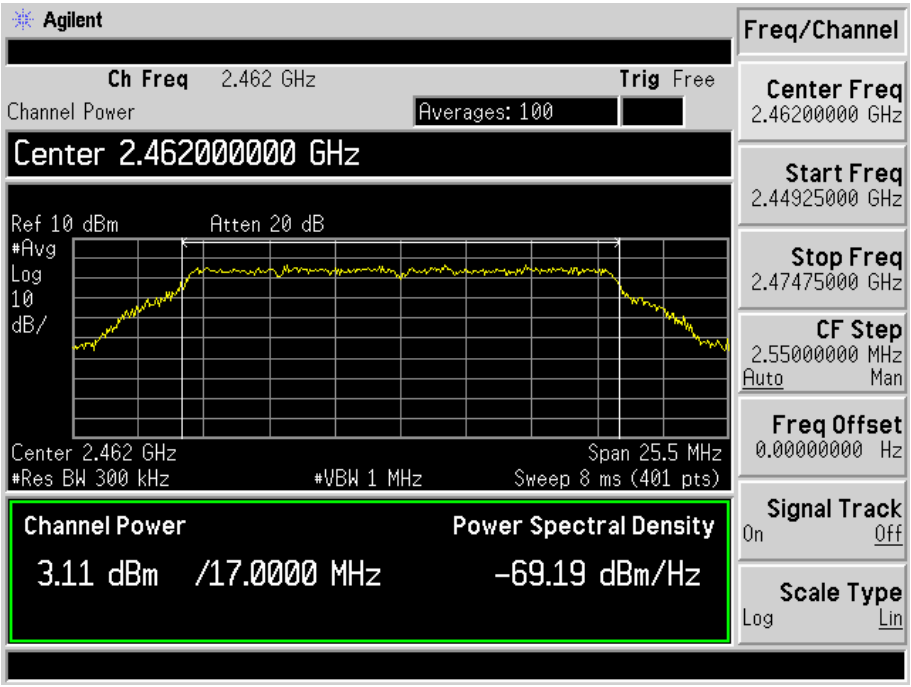
802.11g-54Mbps-Low Channel



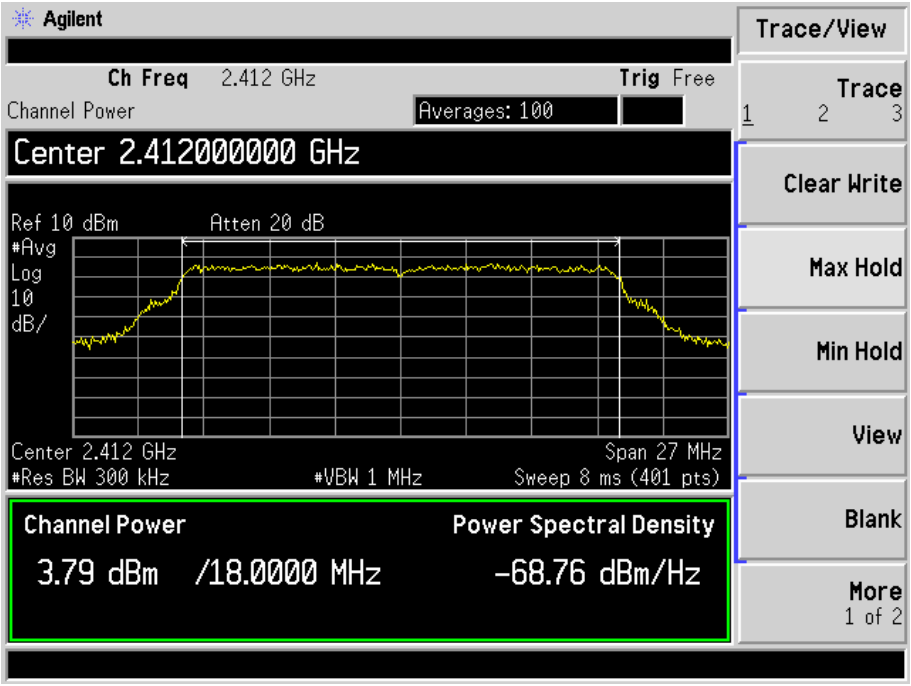
802.11g-54Mbps-Middle Channel



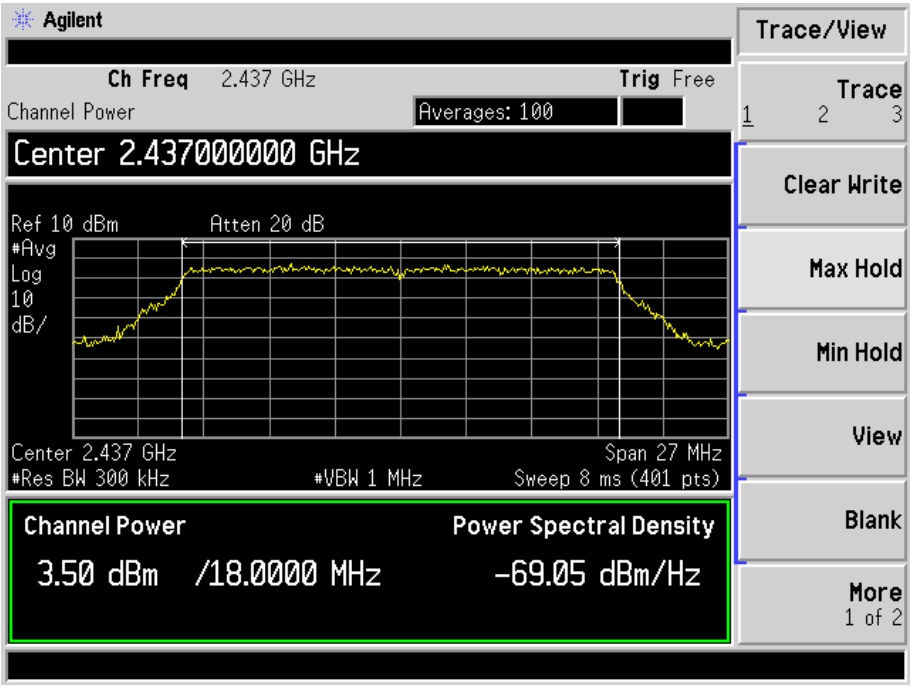
802.11g-54Mpbs-High Channel



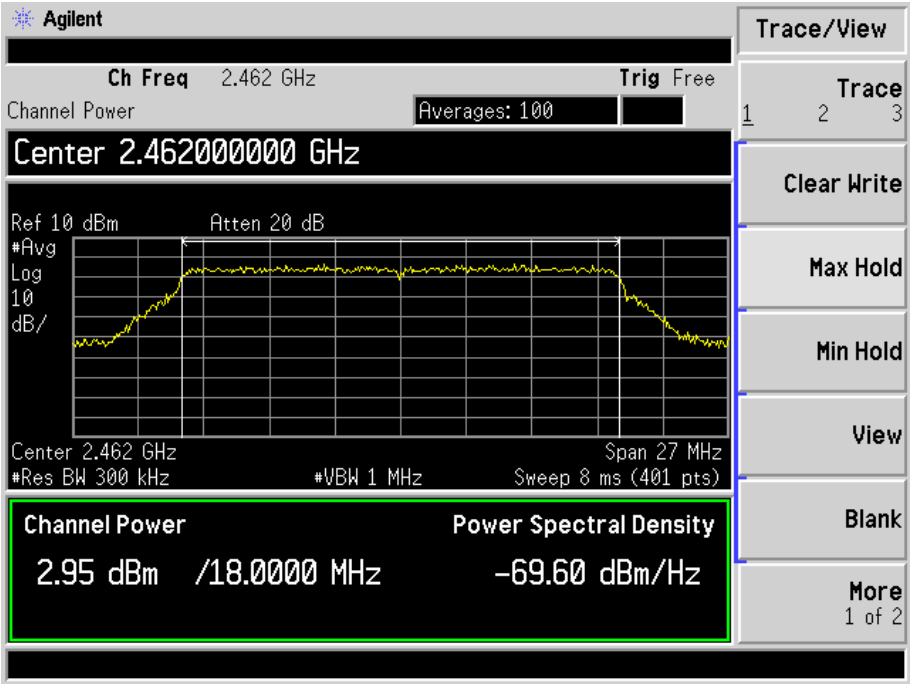
802.11n-HT20-MCS7-Low Channel



802.11n-HT20-MCS7-Middle Channel

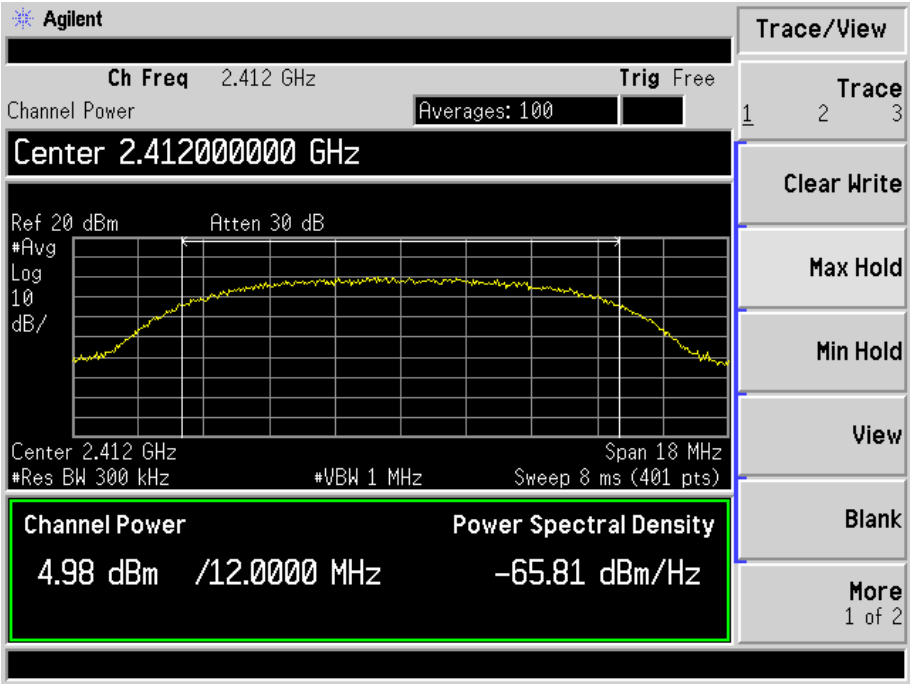


802.11n-HT20-MCS7-High Channel

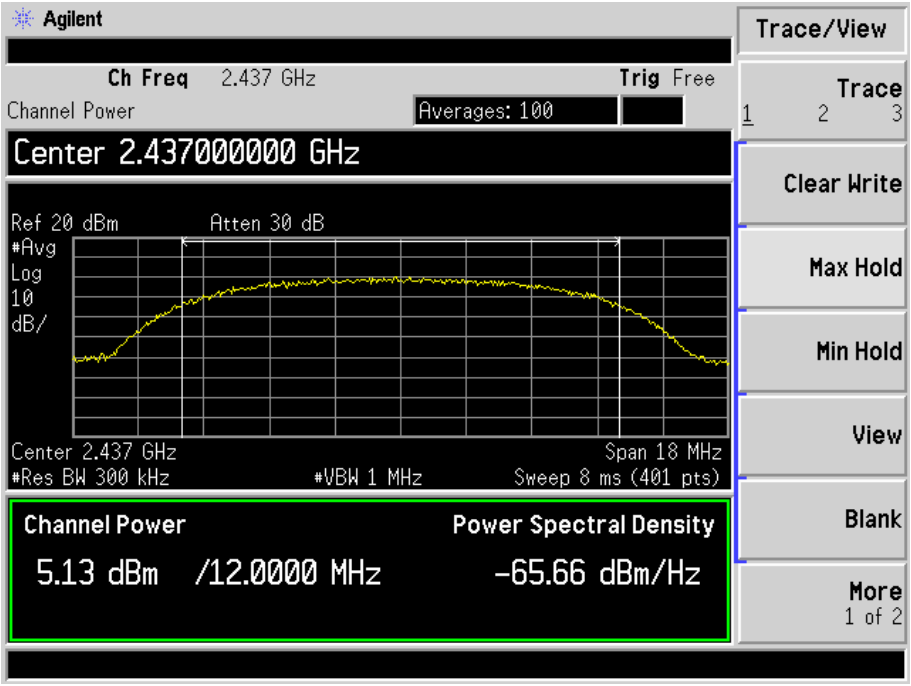


Antenna 2

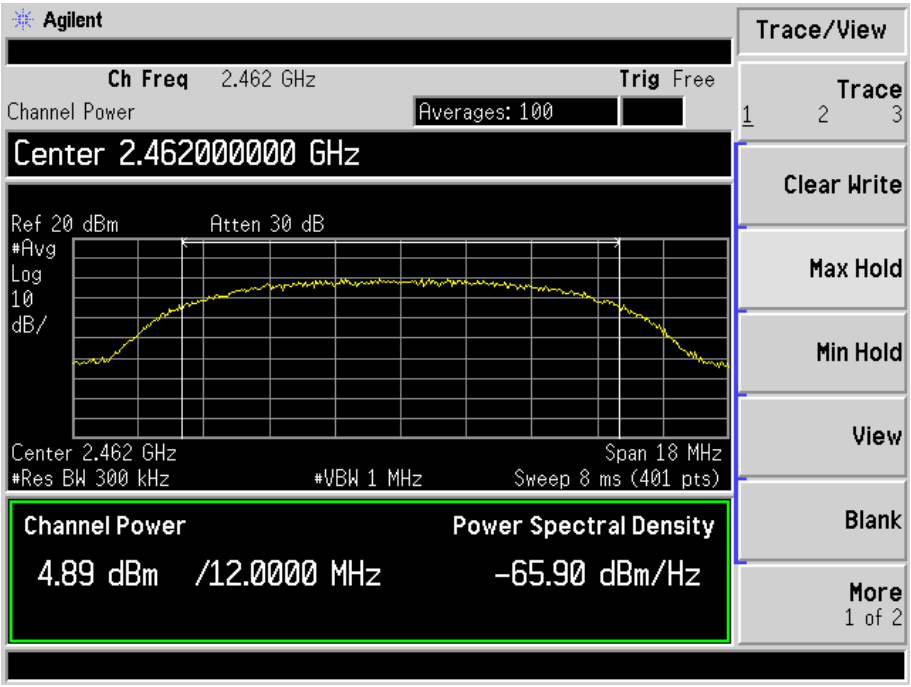
802.11b-11Mbps-Low Channel



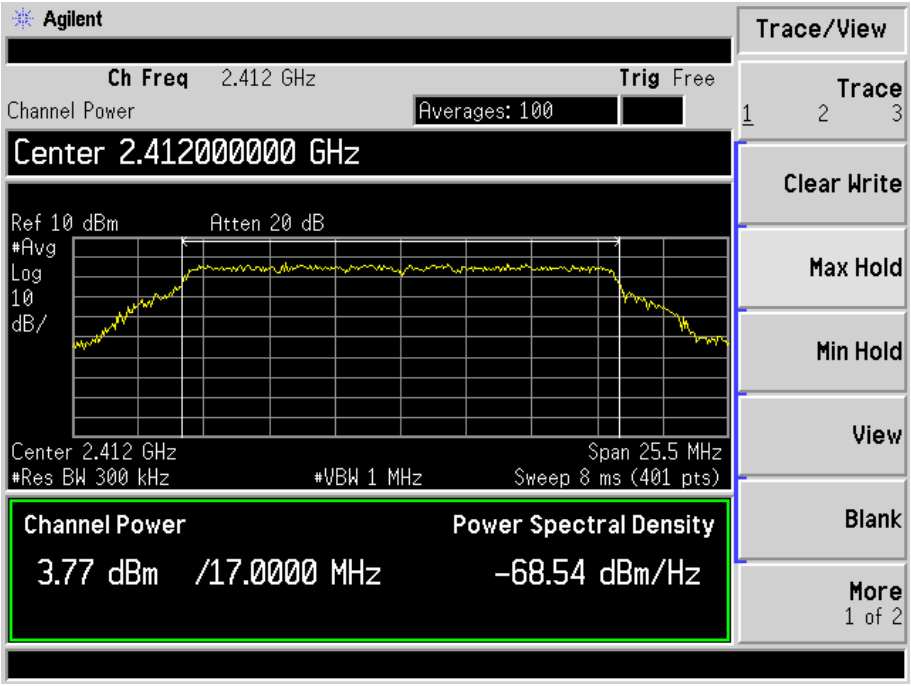
802.11b -11Mbps-Middle Channel



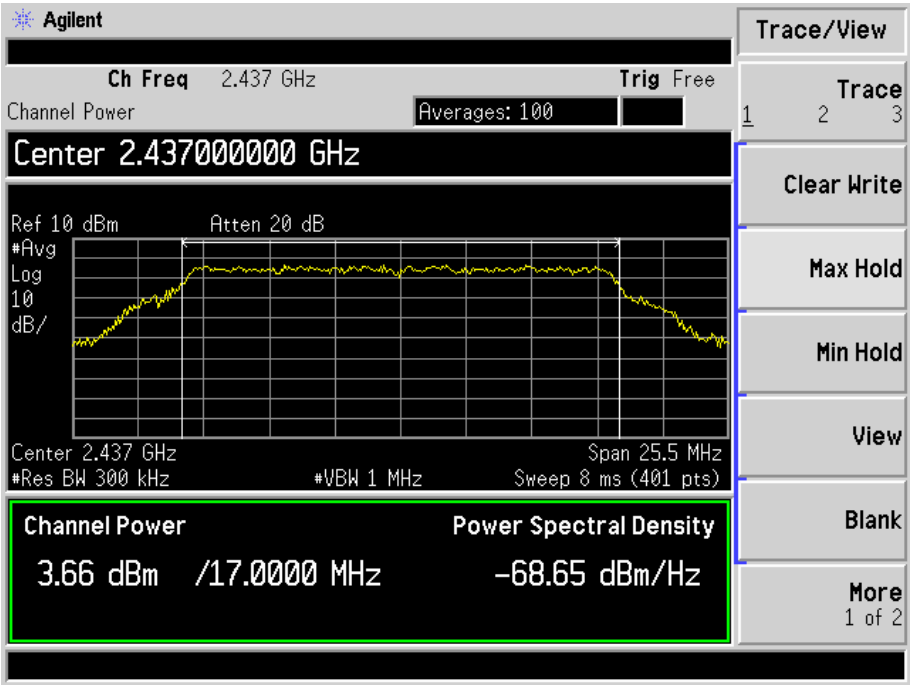
802.11b -11Mpbs-High Channel



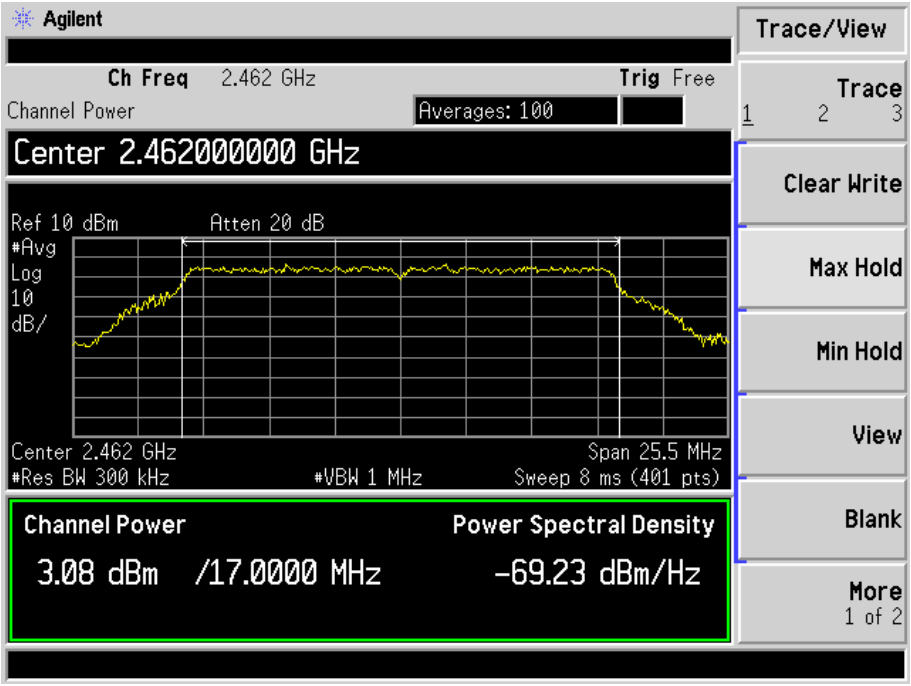
802.11g-54Mbps-Low Channel



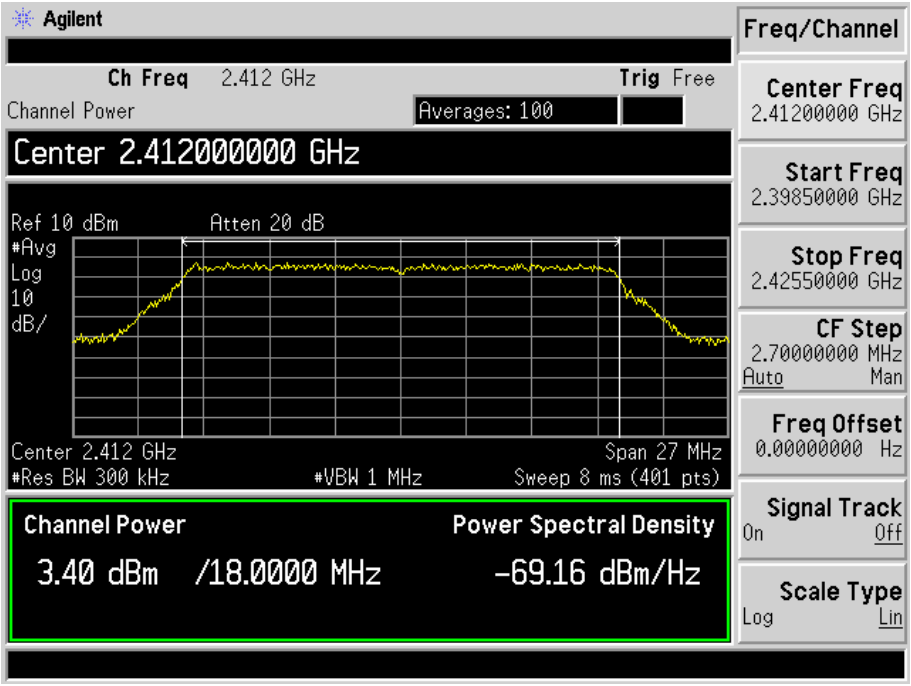
802.11g-54Mbps-Middle Channel



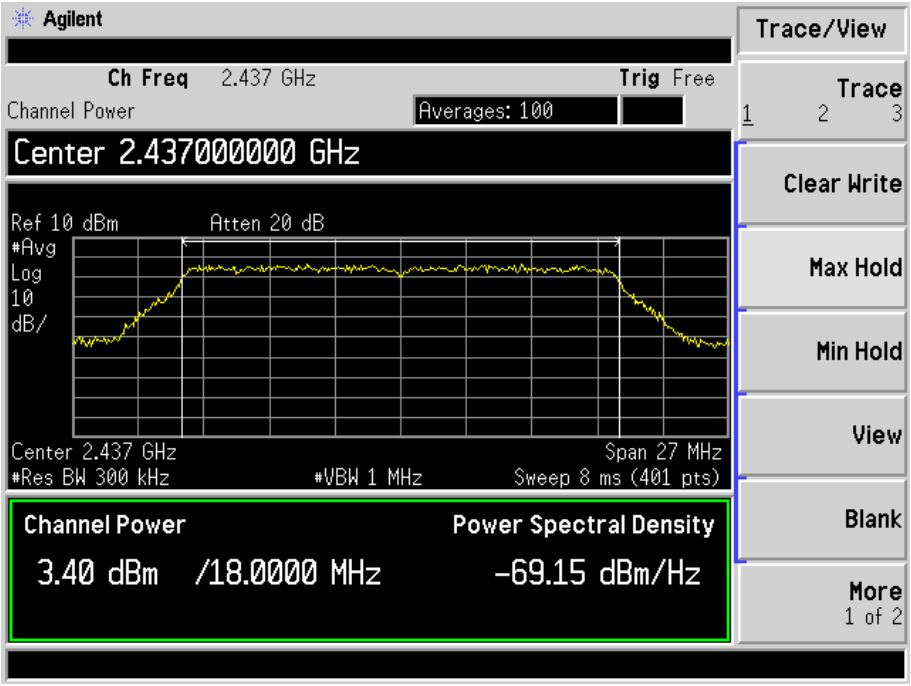
802.11g-54Mpbs-High Channel



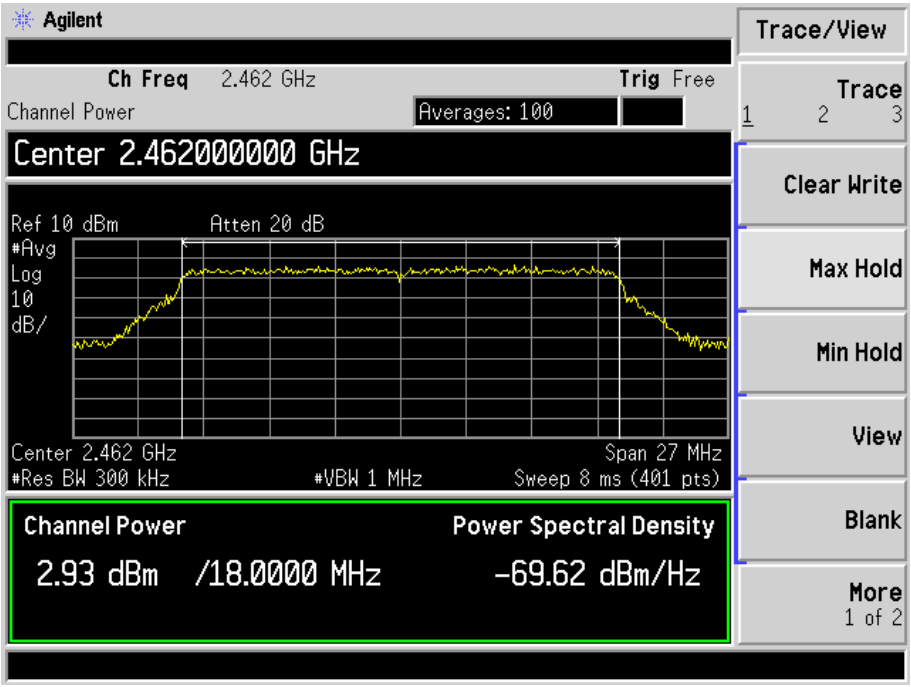
802.11n-HT20-MCS7-Low Channel



802.11n-HT20-MCS7-Middle Channel



802.11n-HT20-MCS7-High Channel



8. Field Strength of Spurious Emissions

8.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is ±5.10 dB.

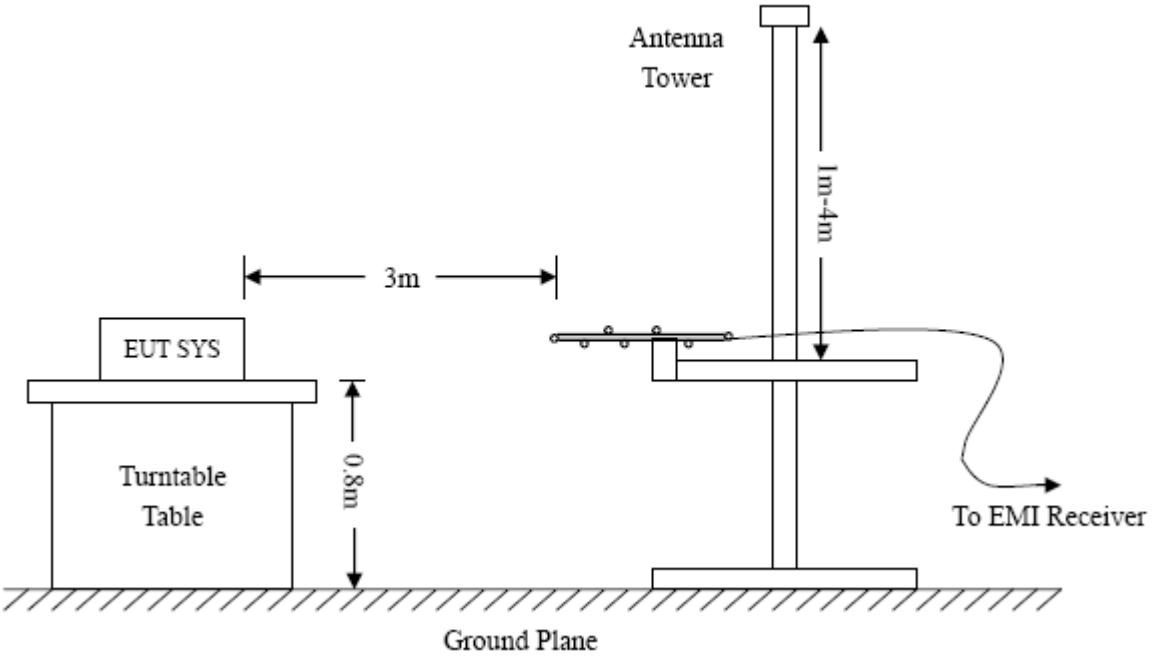
8.2 Standard Applicable

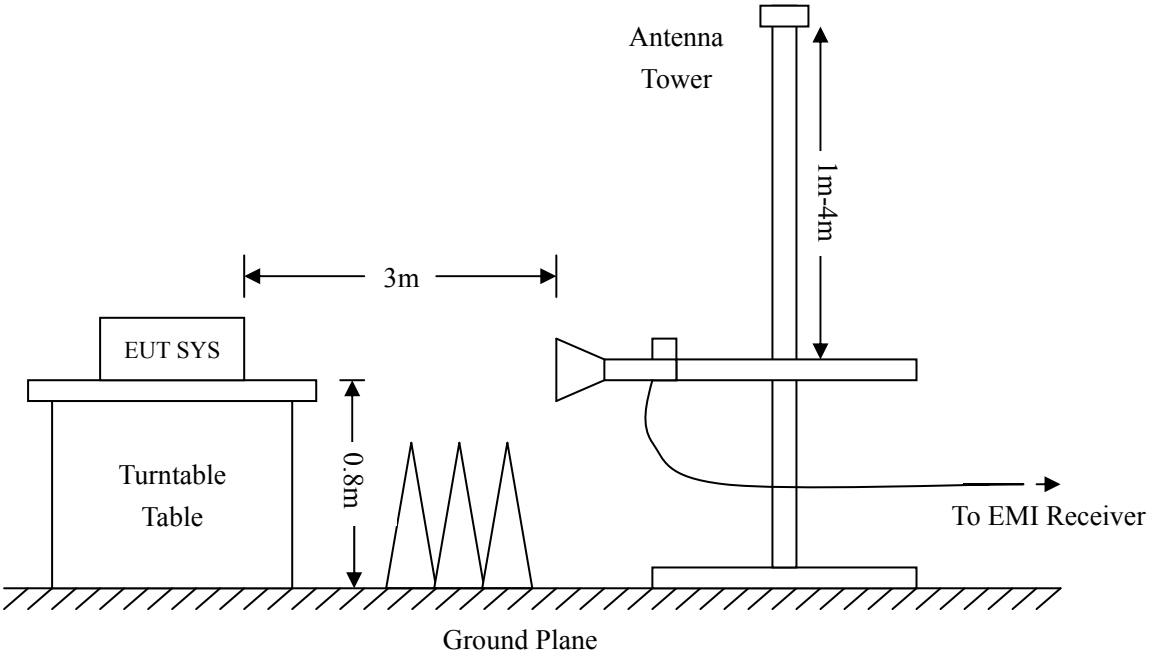
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within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

8.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.205 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	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

8.4 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:

Corr. Ampl. = Indicated Reading + Ant. Factor + Cable Loss – 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:

Margin = Corr. Ampl. – FCC Part 15 Limit

8.5 Environmental Conditions

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

8.6 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 1

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

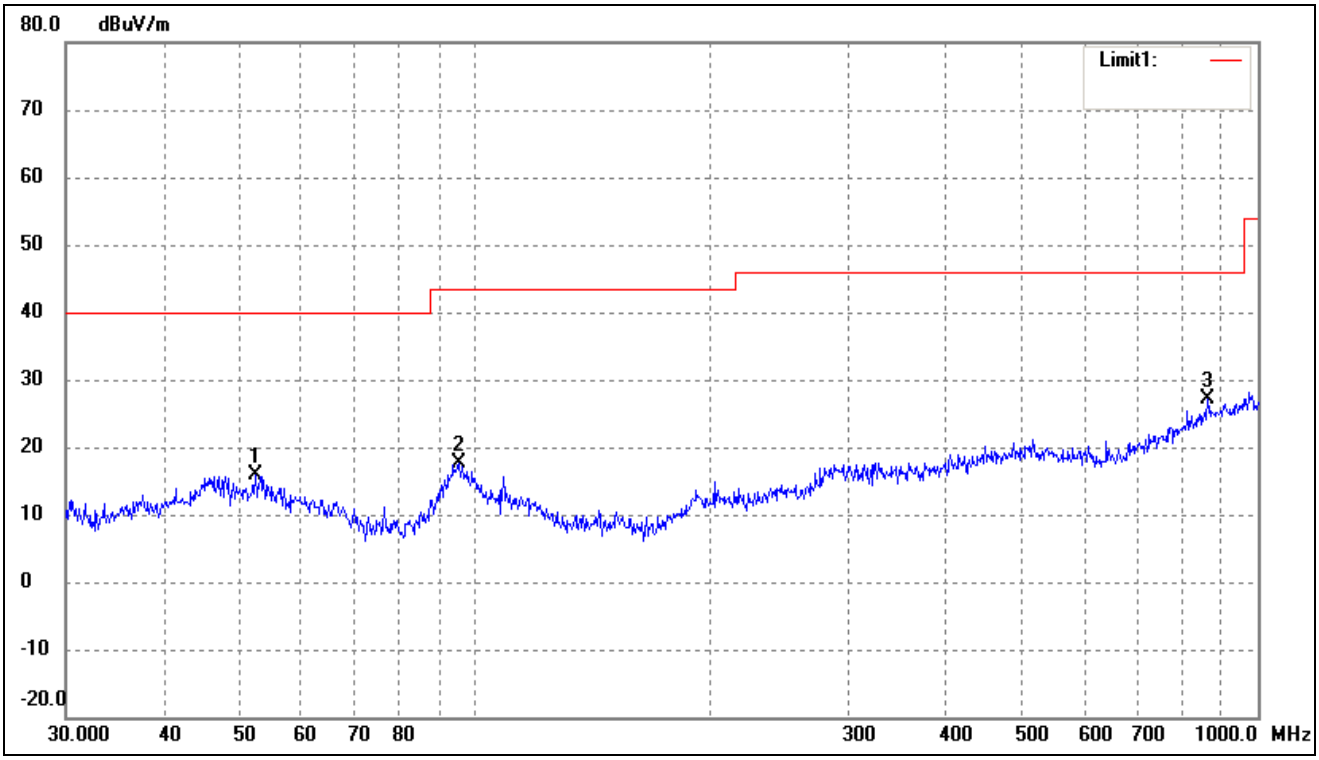
EUT: *Tablet PC*

Tested Model: *360M*

Operating Condition: *802.11b Transmitting Low Channel-2412MHz*

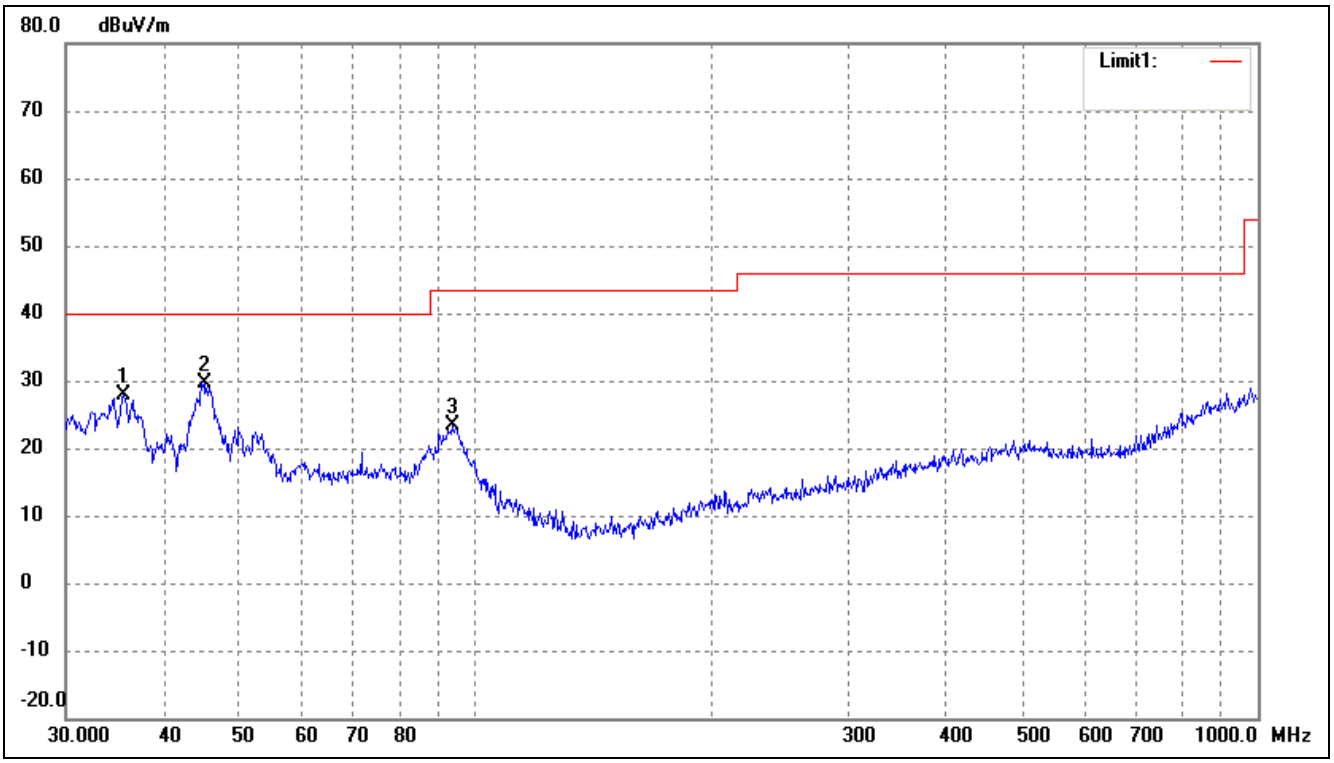
Comment: *DC 7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	52.3913	23.49	-7.68	15.81	40.00	-24.19	105	100	peak
2	95.4270	27.86	-10.14	17.72	43.50	-25.78	160	100	peak
3	863.0562	22.89	4.28	27.17	46.00	-18.83	180	100	peak

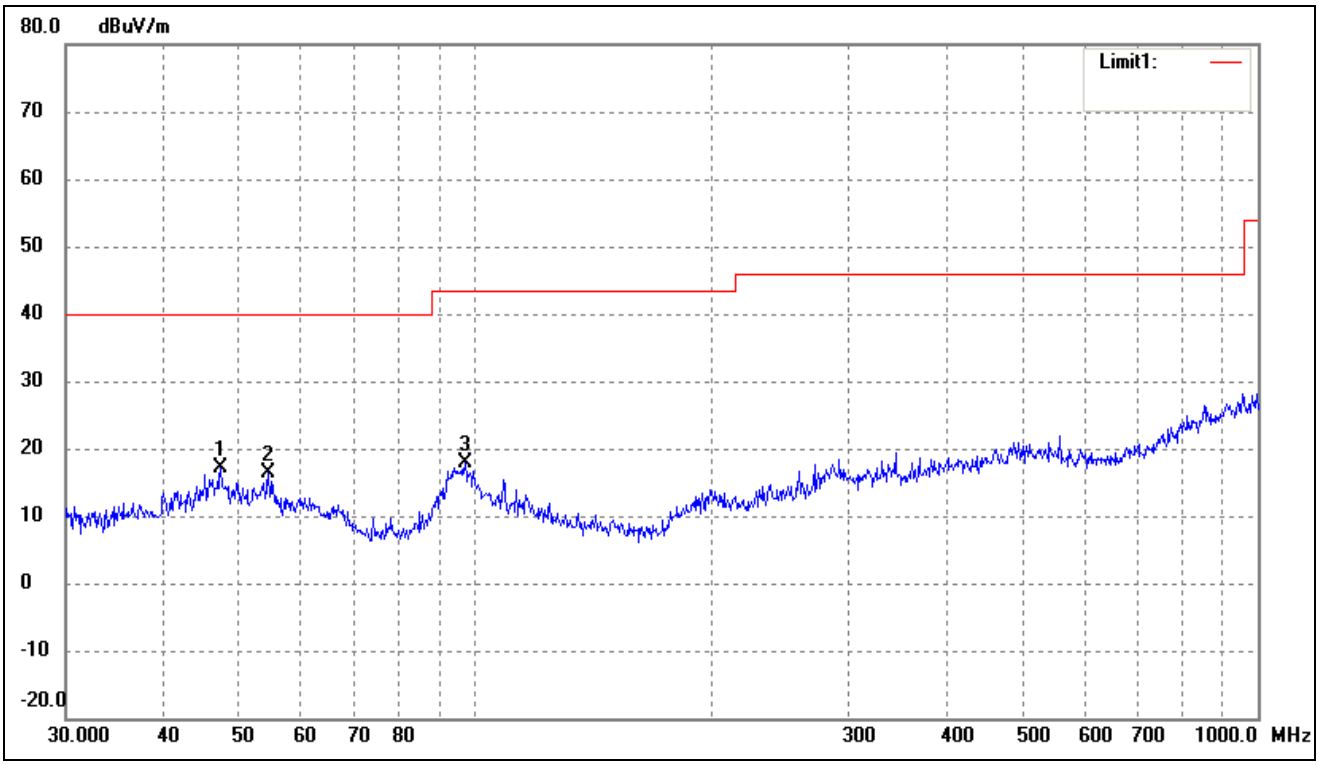
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	35.4993	37.71	-9.88	27.83	40.00	-12.17	140	100	peak
2	45.0583	37.12	-7.47	29.65	40.00	-10.35	250	100	peak
3	93.4402	33.89	-10.51	23.38	43.50	-20.12	120	100	peak

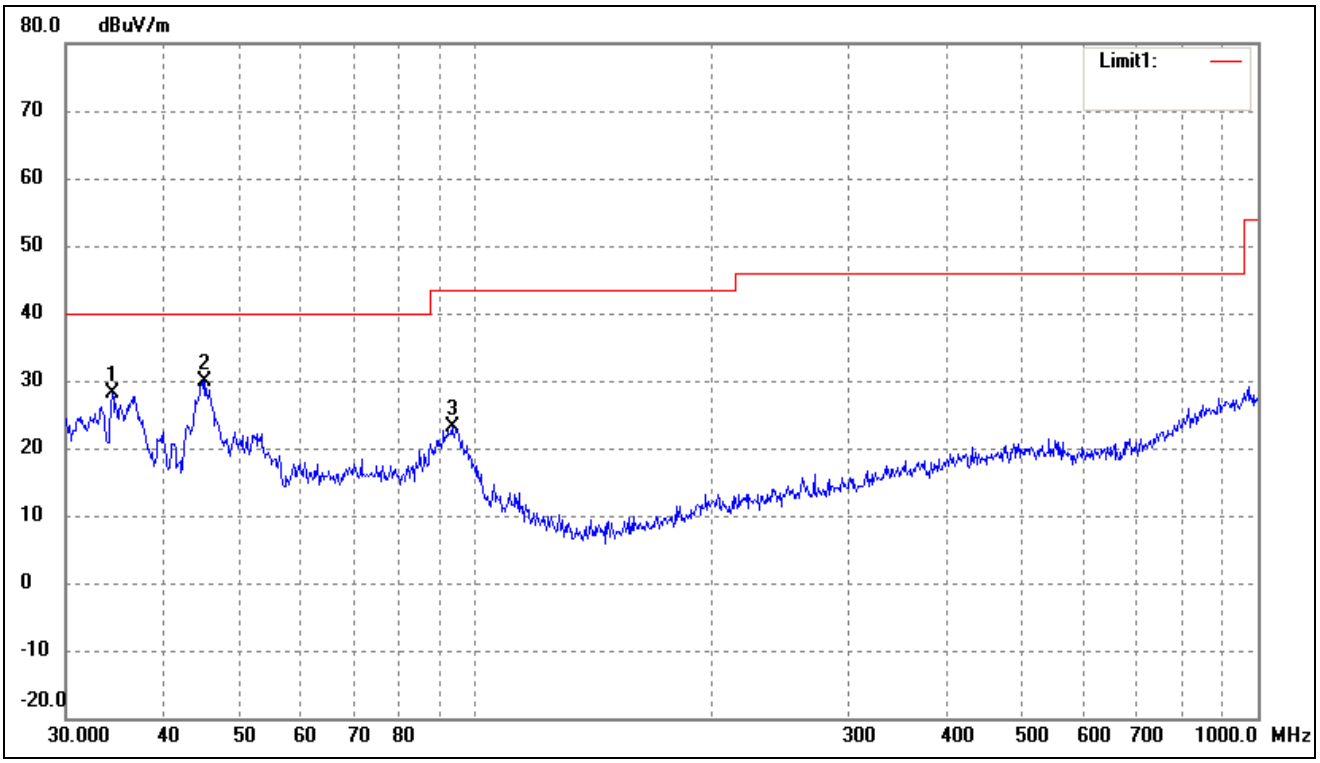
Operating Condition: *802.11b Transmitting Middle Channel-2437MHz*
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	47.3255	24.56	-7.45	17.11	40.00	-22.89	145	100	peak
2	54.4516	24.20	-7.90	16.30	40.00	-23.70	120	100	peak
3	97.1148	27.75	-9.91	17.84	43.50	-25.66	108	100	peak

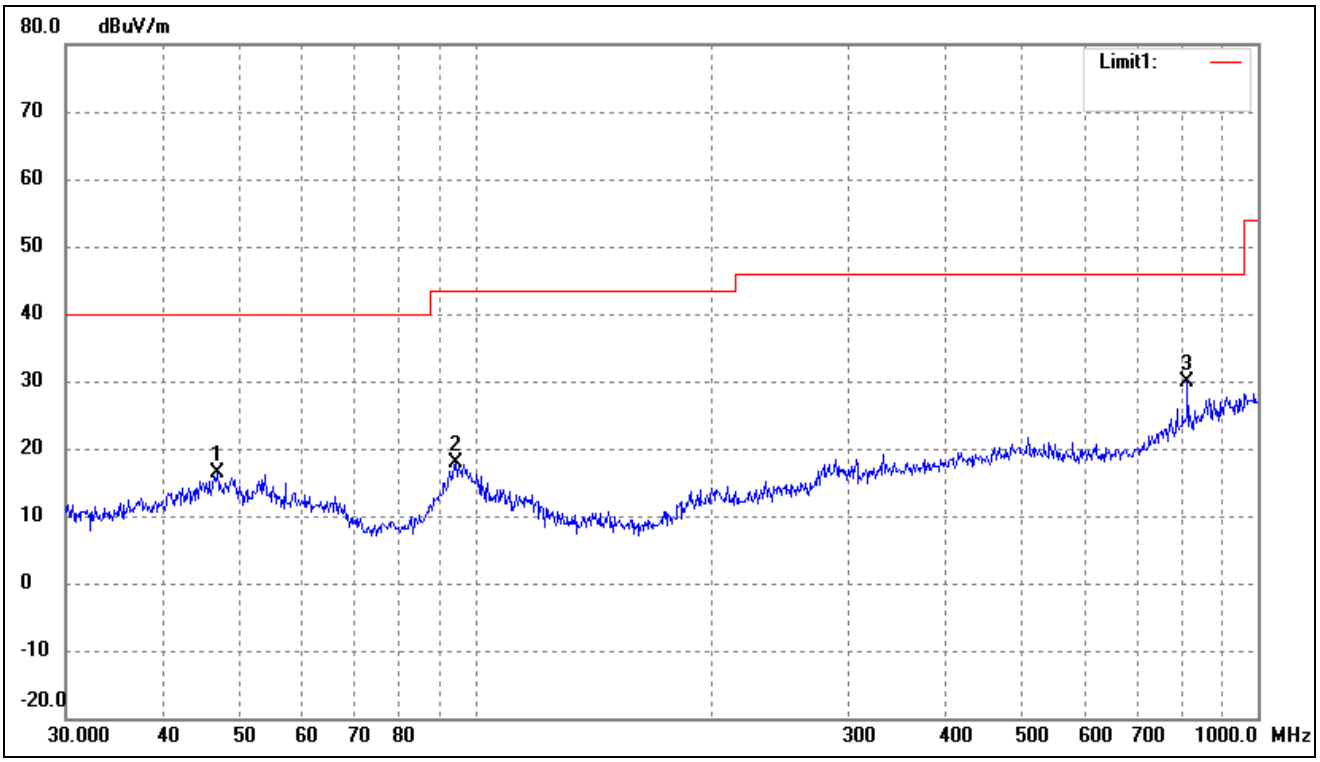
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	34.3964	38.20	-10.19	28.01	40.00	-11.99	120	100	peak
2	45.2166	37.43	-7.47	29.96	40.00	-10.04	113	100	peak
3	93.4402	33.74	-10.51	23.23	43.50	-20.27	157	100	peak

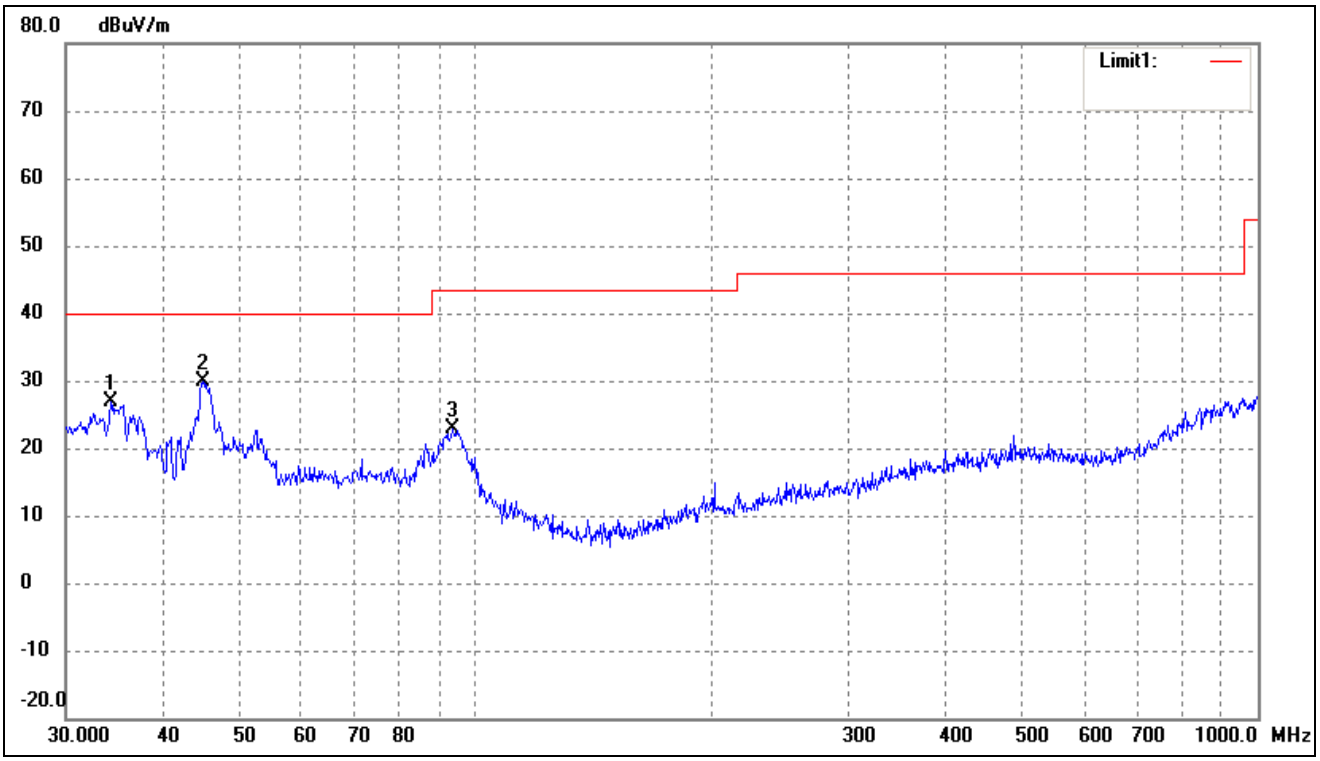
Operating Condition: *802.11b Transmitting High Channel-2462MHz*
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	46.8303	23.87	-7.45	16.42	40.00	-23.58	120	100	peak
2	94.4284	28.09	-10.32	17.77	43.50	-25.73	250	100	peak
3	813.1116	26.78	3.03	29.81	46.00	-16.19	360	100	peak

Test Specification: *Vertical*

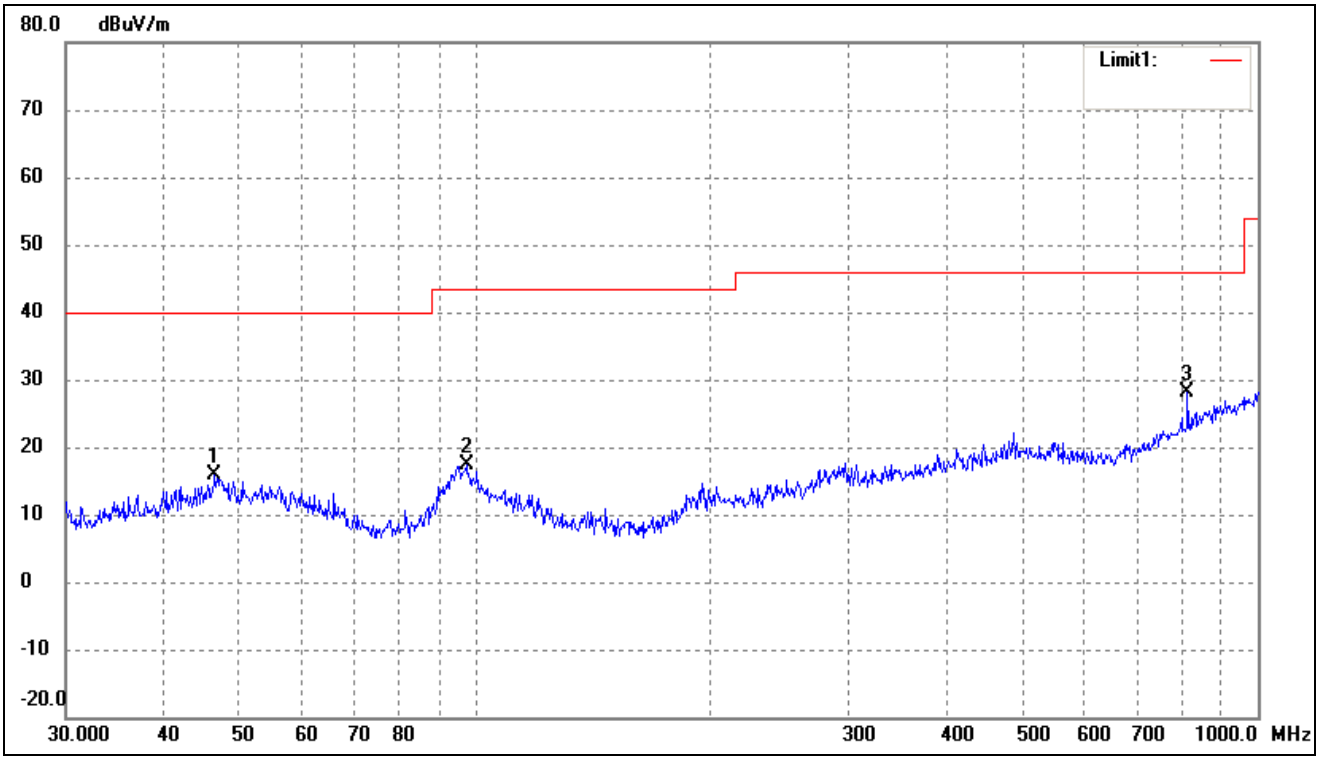


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	34.2760	36.97	-10.21	26.76	40.00	-13.24	360	100	peak
2	44.9006	37.44	-7.49	29.95	40.00	-10.05	200	100	peak
3	93.7685	33.21	-10.44	22.77	43.50	-20.73	120	100	peak

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

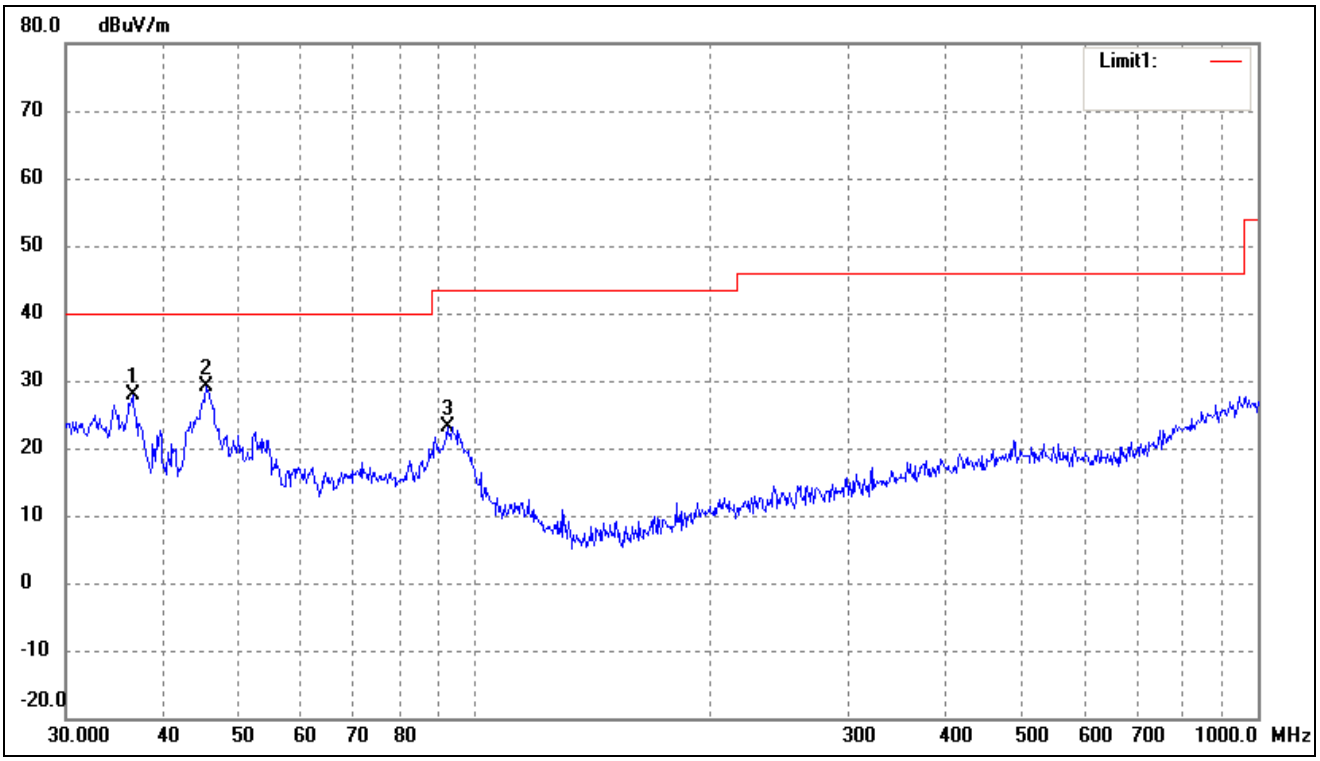
EUT: *Tablet PC*
Tested Model: *360M*
Operating Condition: *802.11g Transmitting Low Channel-2412MHz*
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	46.5030	23.25	-7.46	15.79	40.00	-24.21	170	100	peak
2	97.4560	27.13	-9.87	17.26	43.50	-26.24	20	100	peak
3	813.1116	25.02	3.03	28.05	46.00	-17.95	320	100	peak

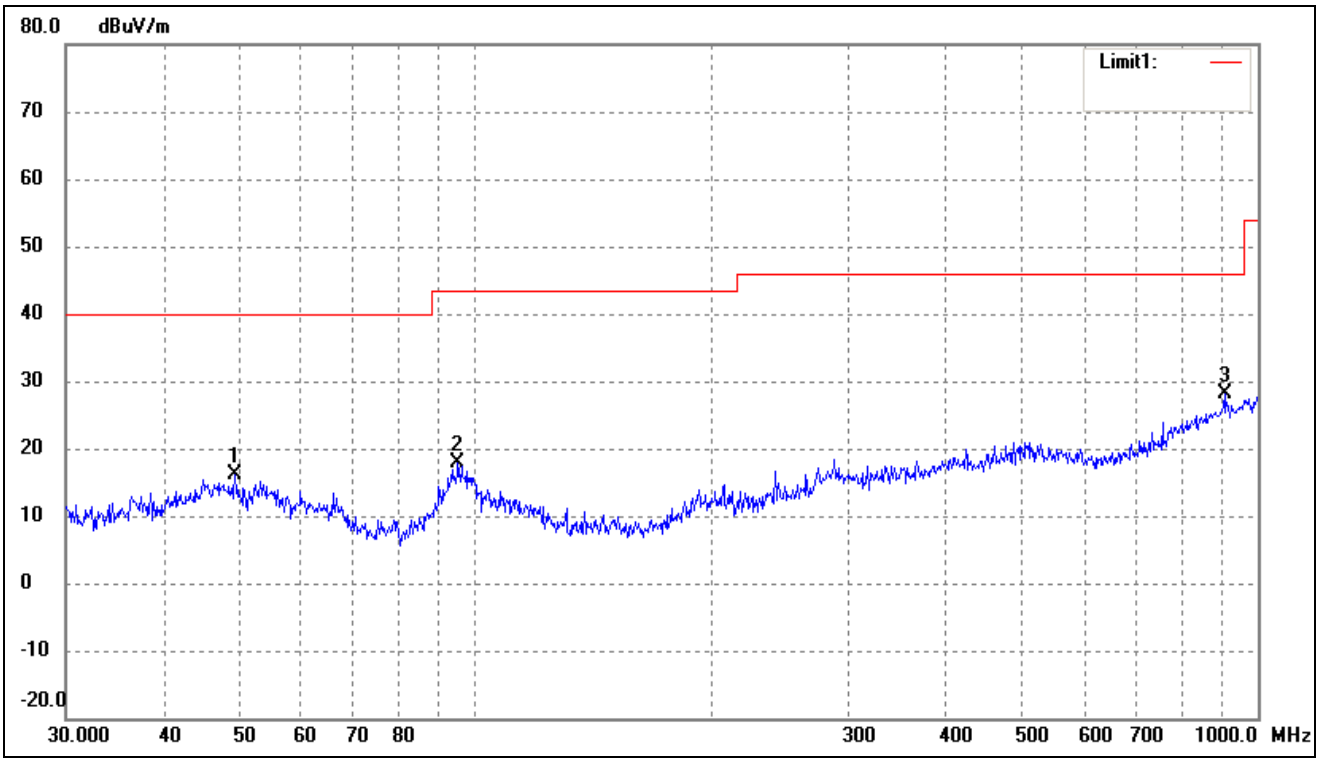
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	36.5092	37.38	-9.46	27.92	40.00	-12.08	270	100	peak
2	45.3755	36.71	-7.46	29.25	40.00	-10.75	190	100	peak
3	92.1388	33.93	-10.76	23.17	43.50	-20.33	360	100	peak

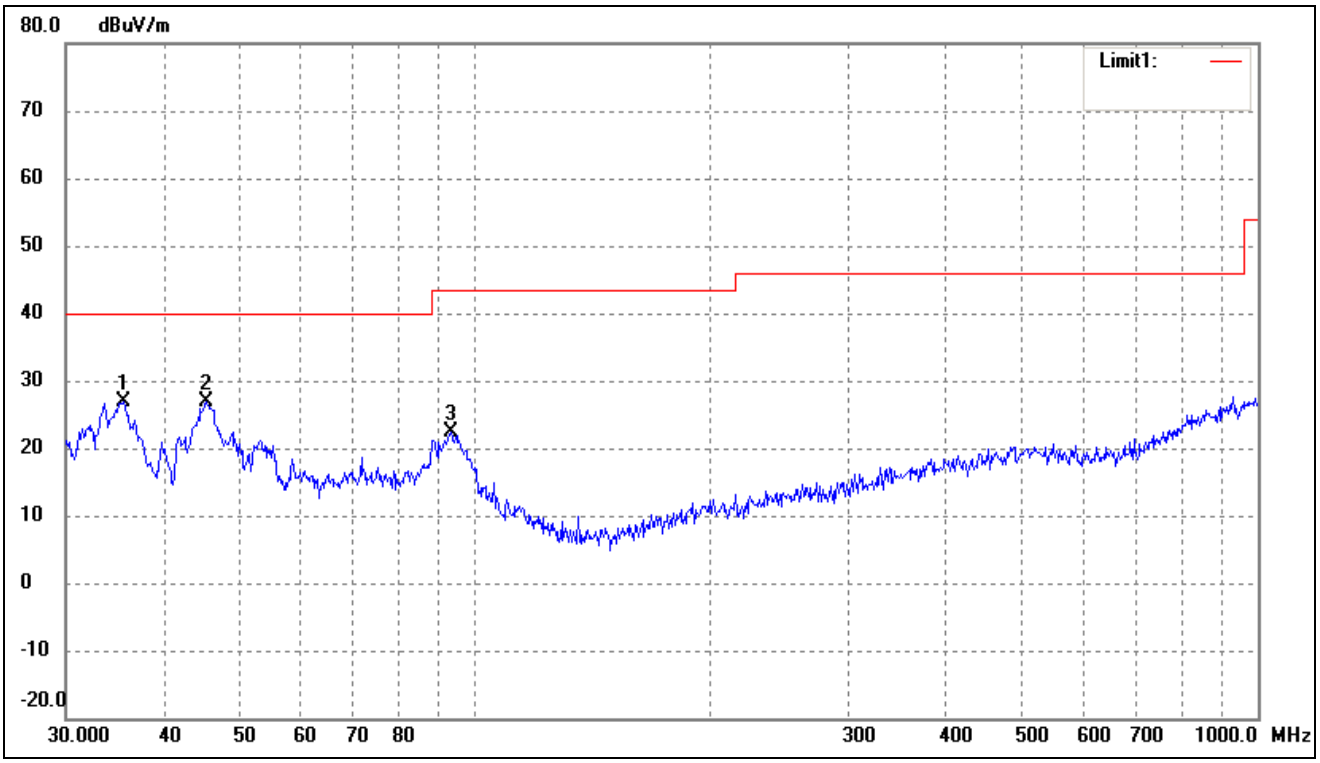
Operating Condition: *802.11g Transmitting Middle Channel-2437MHz*
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	49.3594	23.47	-7.45	16.02	40.00	-23.98	270	100	peak
2	95.0930	28.08	-10.19	17.89	43.50	-25.61	160	100	peak
3	906.4824	22.59	5.45	28.04	46.00	-17.96	228	200	peak

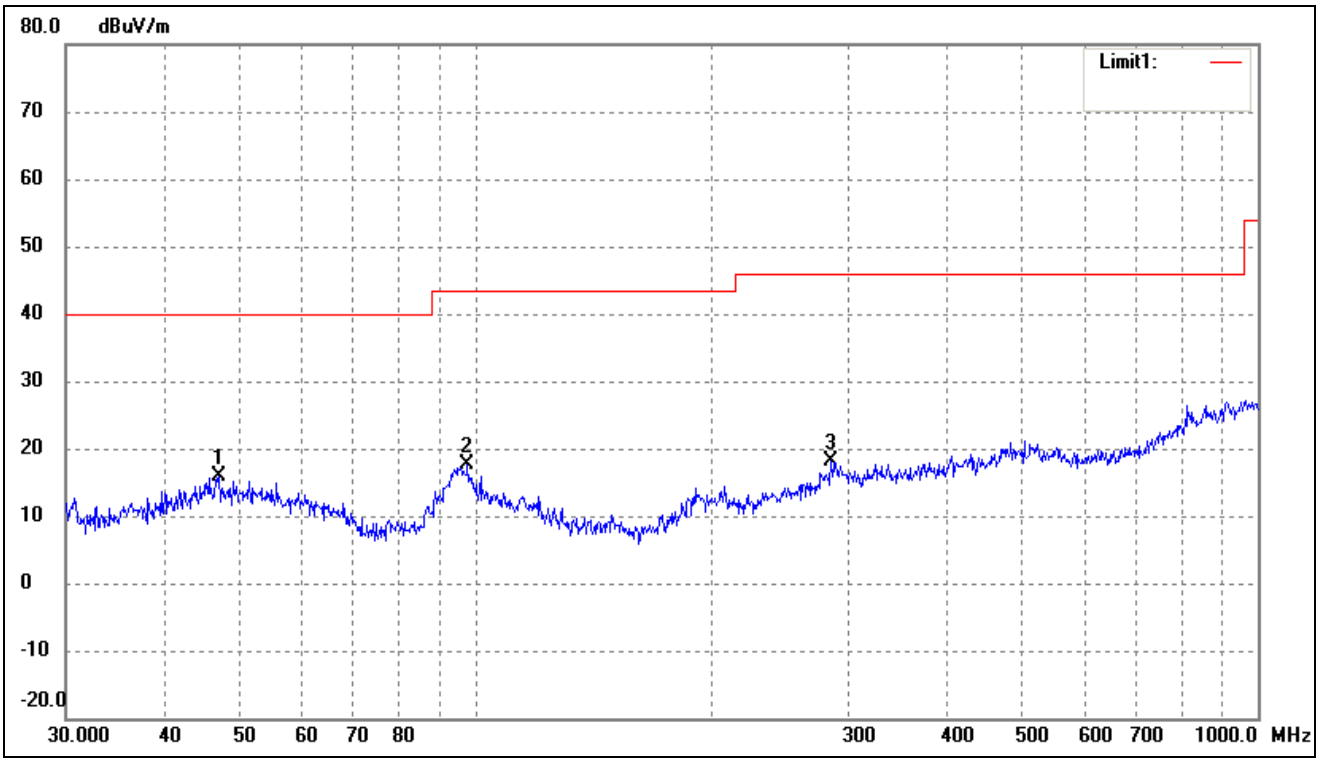
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	35.4993	36.79	-9.88	26.91	40.00	-13.09	360	100	peak
2	45.3755	34.39	-7.46	26.93	40.00	-13.07	120	100	peak
3	93.1132	33.00	-10.57	22.43	43.50	-21.07	270	100	peak

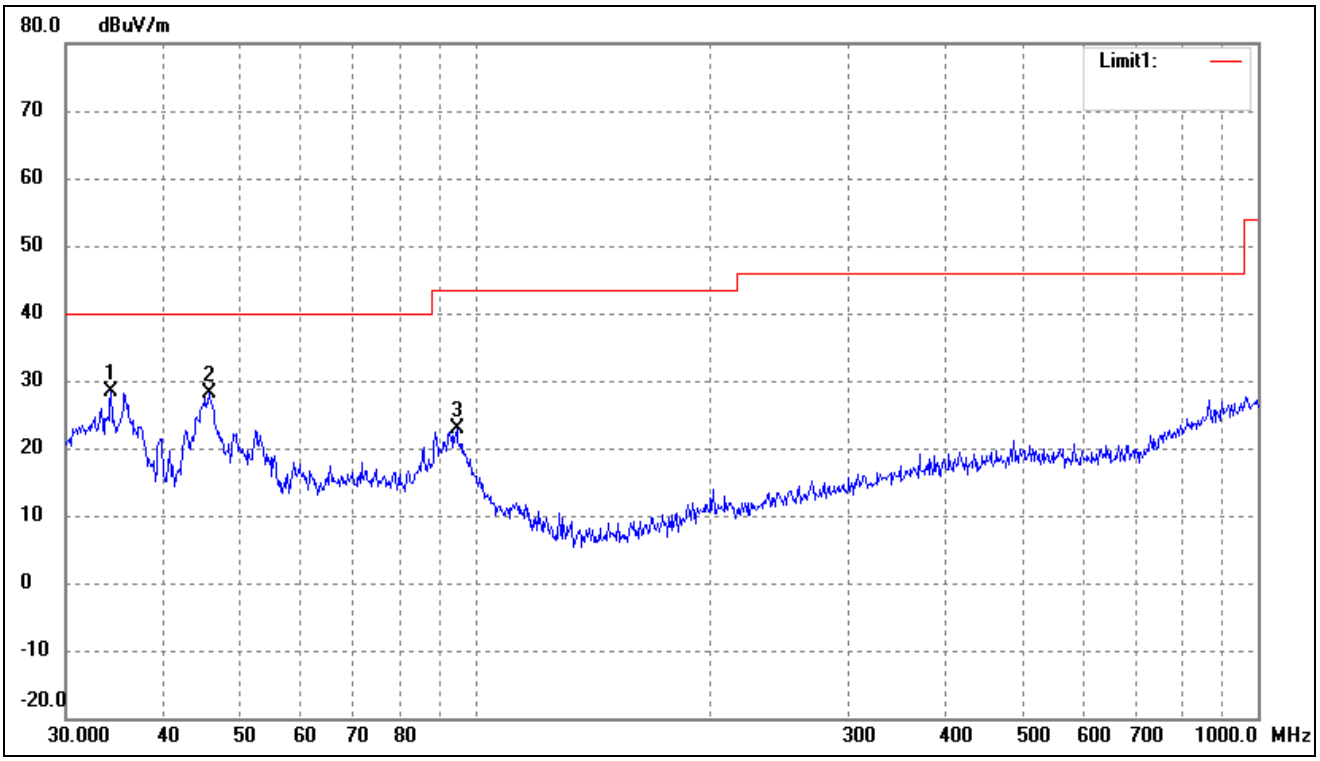
Operating Condition: *802.11g Transmitting High Channel-2462MHz*
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	47.1599	23.27	-7.45	15.82	40.00	-24.18	270	100	peak
2	97.7983	27.51	-9.82	17.69	43.50	-25.81	150	100	peak
3	284.9767	24.60	-6.56	18.04	46.00	-27.96	360	100	peak

Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	34.2760	38.52	-10.21	28.31	40.00	-11.69	360	100	peak
2	45.6948	35.65	-7.46	28.19	40.00	-11.81	180	100	peak
3	94.7601	33.11	-10.25	22.86	43.50	-20.64	120	100	peak

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

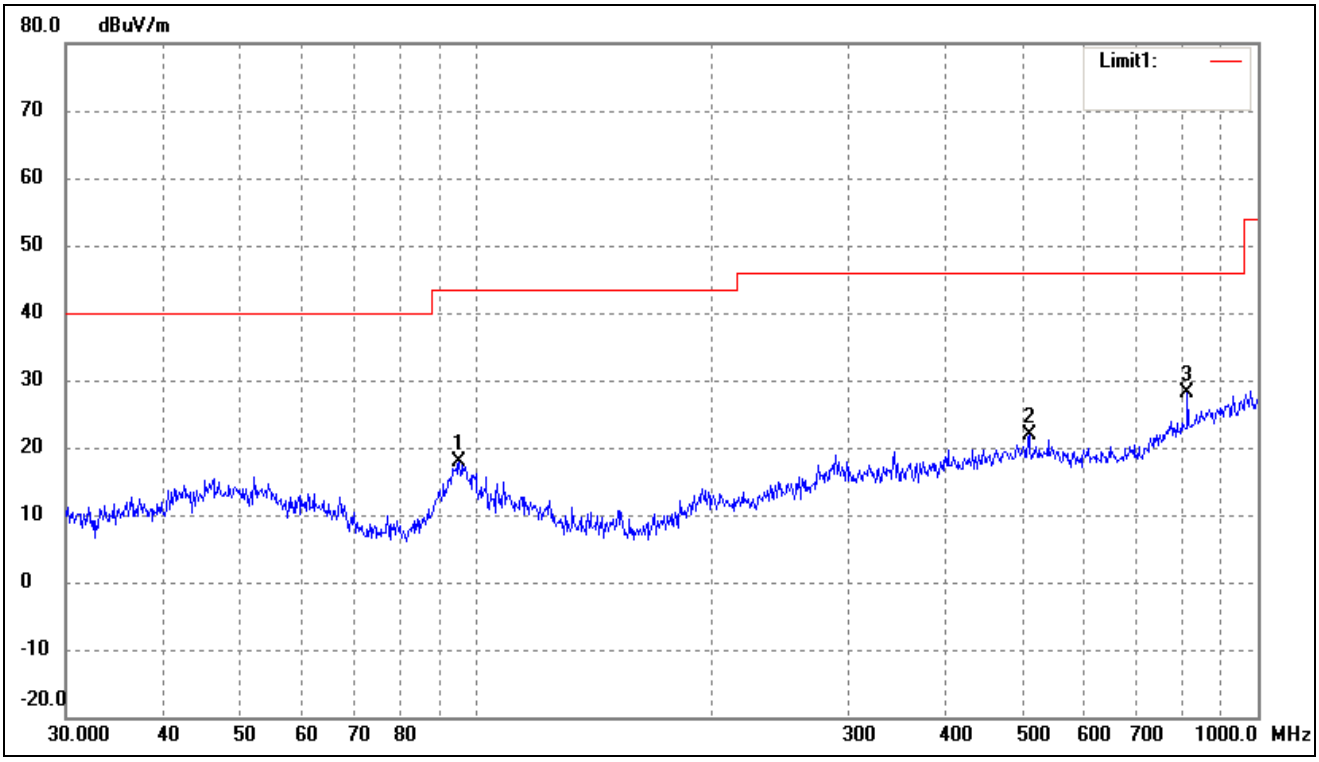
EUT: *Tablet PC*

Tested Model: *360M*

Operating Condition: *802.11n-HT20 Transmitting Low Channel-2412MHz*

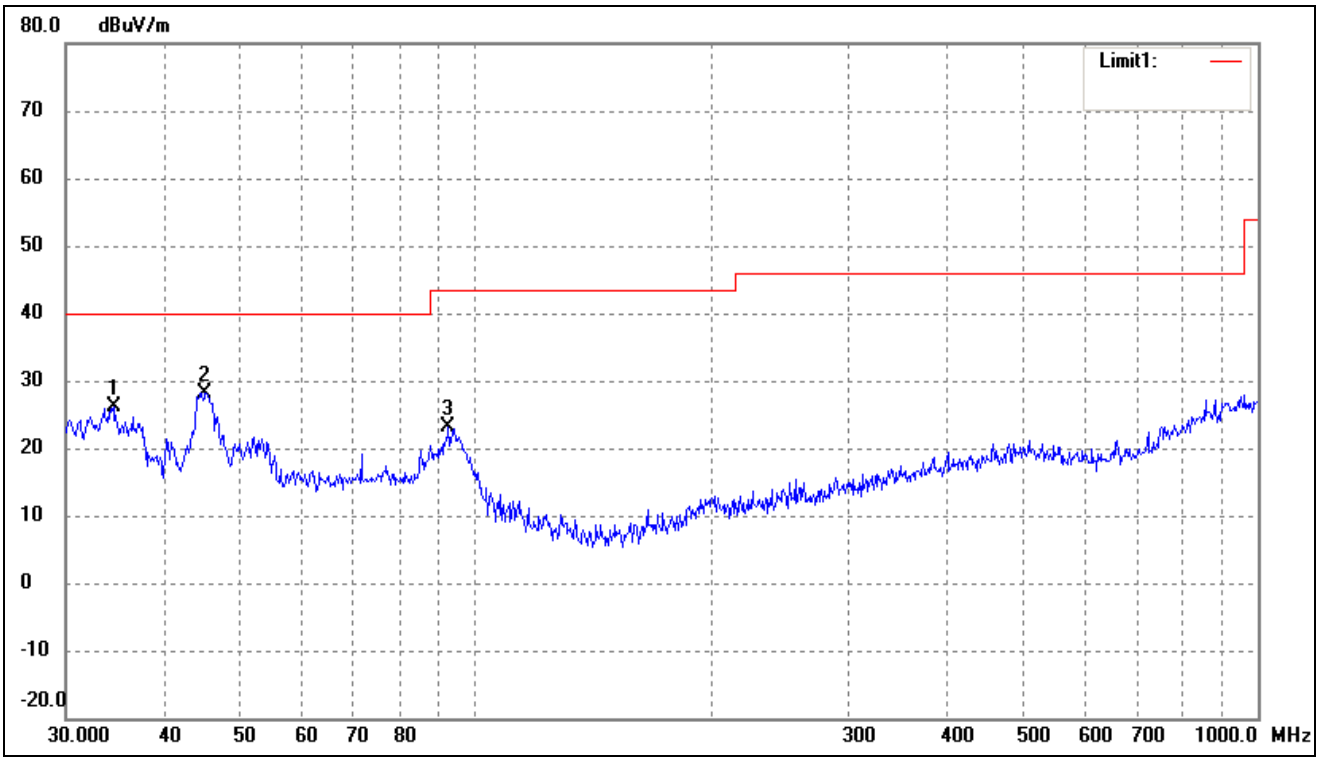
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	95.4270	28.11	-10.14	17.97	43.50	-25.53	260	100	peak
2	510.0436	23.13	-1.18	21.95	46.00	-24.05	120	200	peak
3	813.1116	25.20	3.03	28.23	46.00	-17.77	289	200	peak

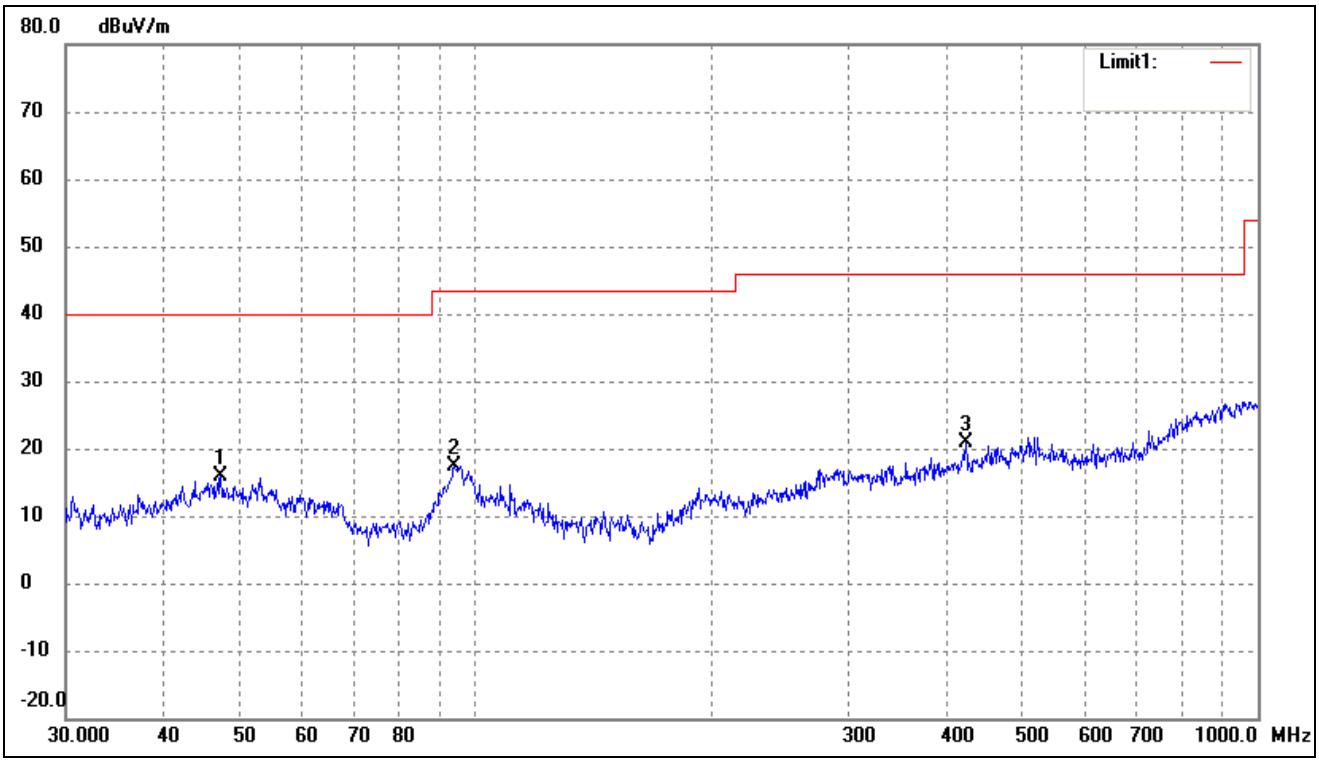
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	34.5173	36.31	-10.17	26.14	40.00	-13.86	130	100	peak
2	45.2166	35.70	-7.47	28.23	40.00	-11.77	120	100	peak
3	92.4624	33.85	-10.69	23.16	43.50	-20.34	360	100	peak

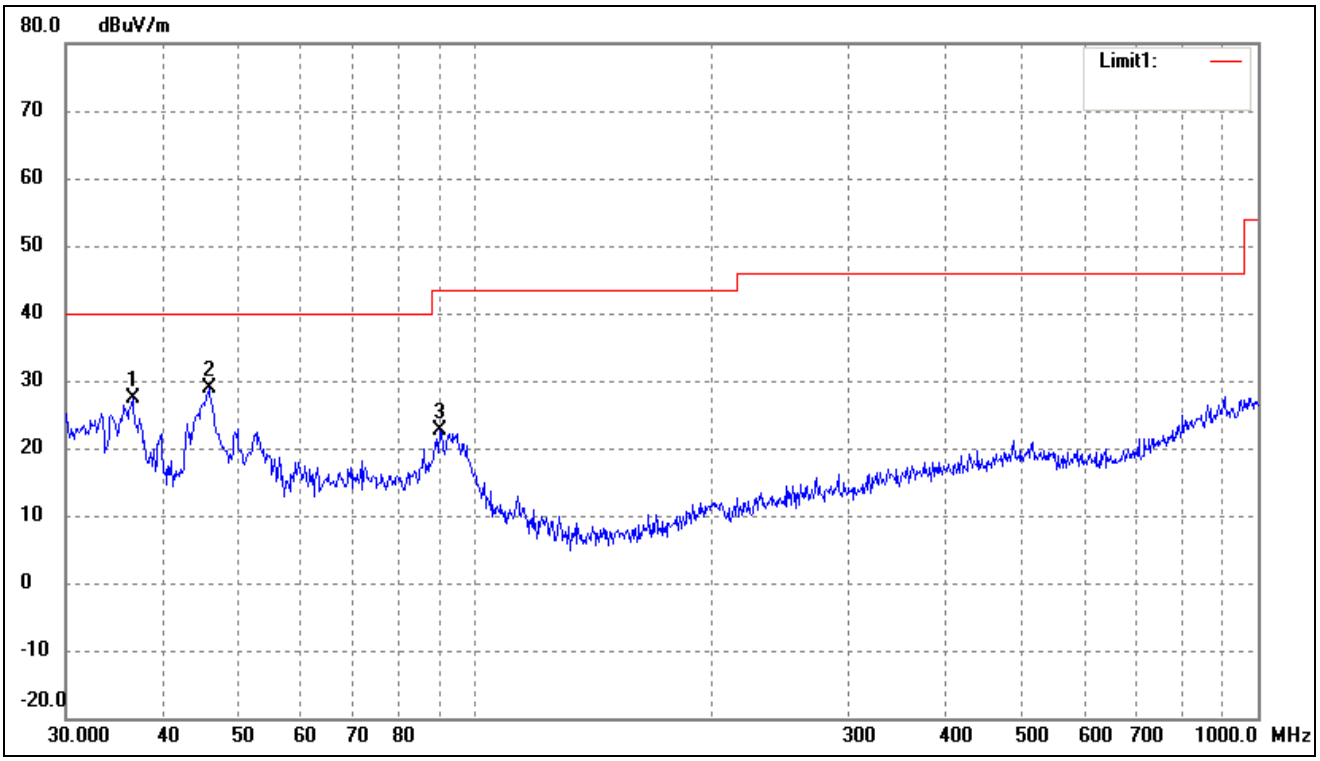
Operating Condition: *802.11n-HT20 Transmitting Middle Channel-2437MHz*
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	47.3255	23.24	-7.45	15.79	40.00	-24.21	274	100	peak
2	94.0979	27.85	-10.38	17.47	43.50	-26.03	130	100	peak
3	423.5403	23.37	-2.43	20.94	46.00	-25.06	120	100	peak

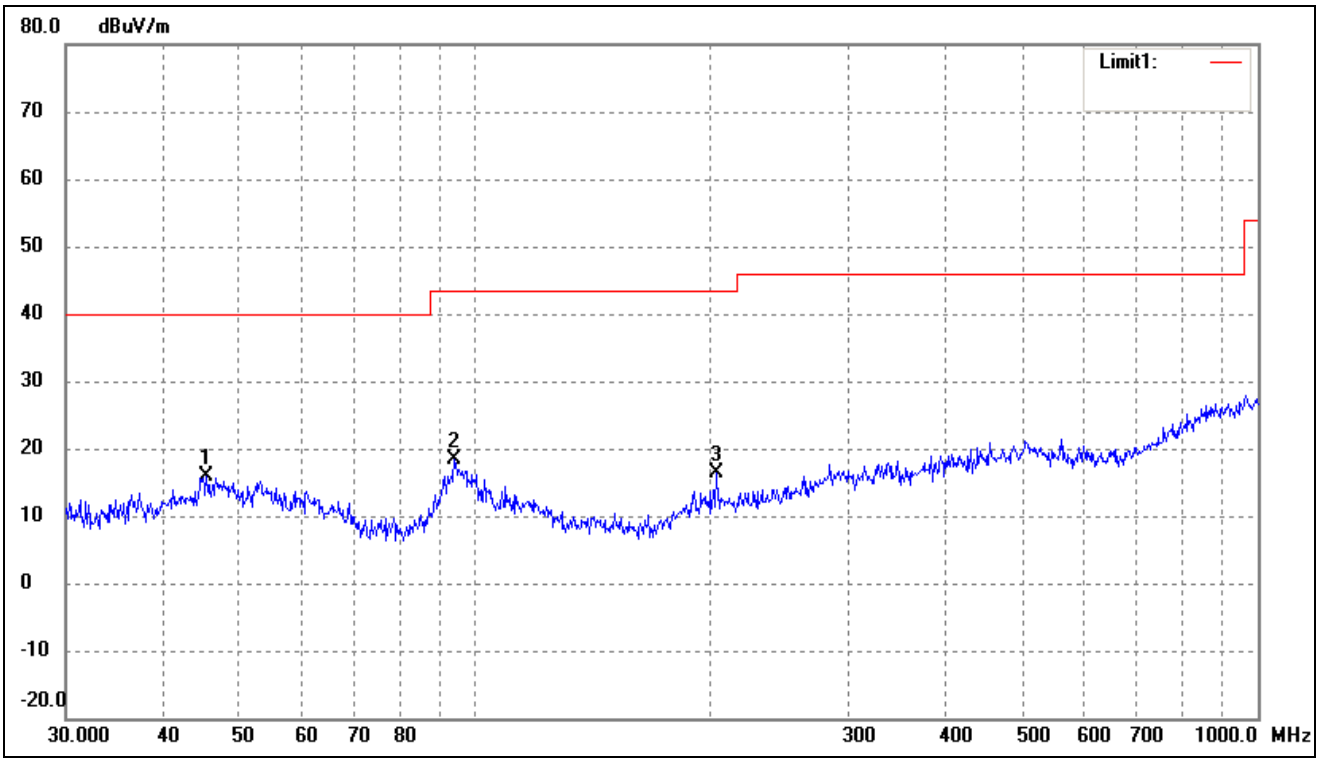
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	36.5092	36.93	-9.46	27.47	40.00	-12.53	360	100	peak
2	45.6948	36.30	-7.46	28.84	40.00	-11.16	110	100	peak
3	90.2205	33.66	-11.13	22.53	43.50	-20.97	120	100	peak

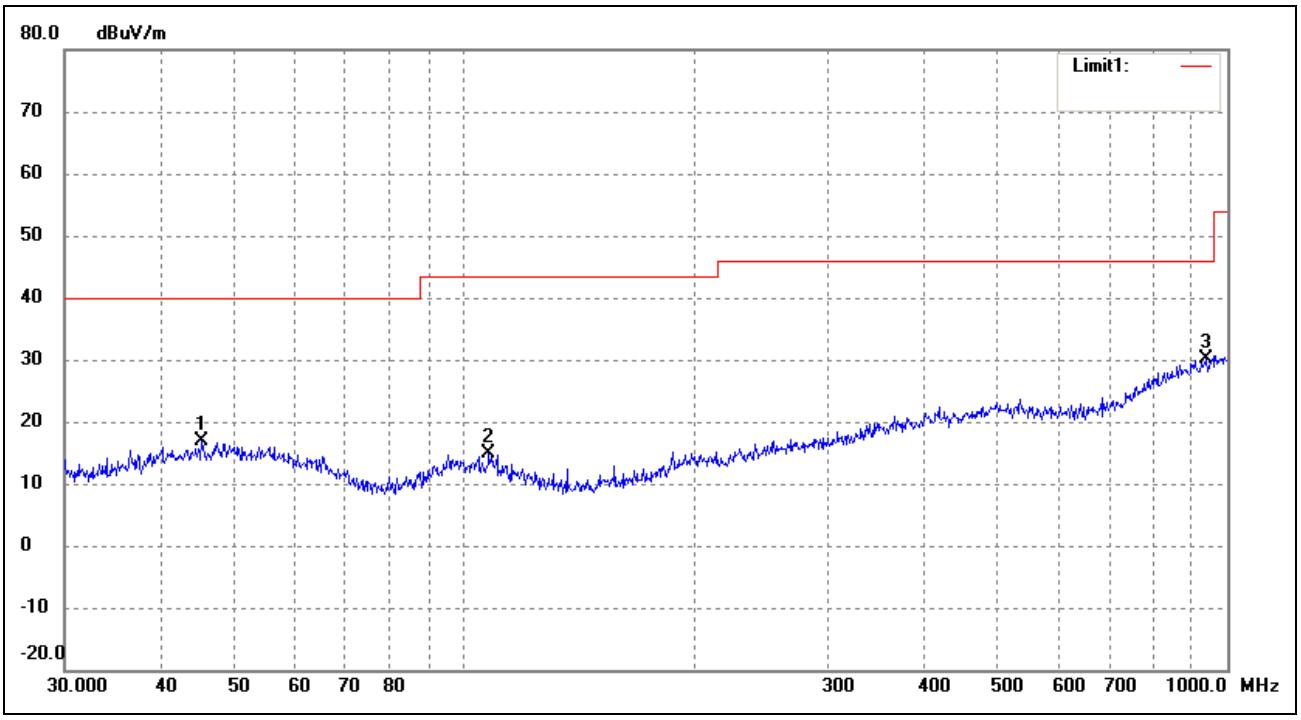
Operating Condition: *802.11n-HT20 Transmitting High Channel-2462MHz*
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	45.3755	23.27	-7.46	15.81	40.00	-24.19	360	100	peak
2	94.0979	28.78	-10.38	18.40	43.50	-25.10	138	100	peak
3	203.5228	25.47	-9.03	16.44	43.50	-27.06	180	200	peak

Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	36.7662	36.81	-9.33	27.48	40.00	-12.52	270	100	peak
2	45.6948	36.11	-7.46	28.65	40.00	-11.35	120	100	peak
3	92.4624	33.80	-10.69	23.11	43.50	-20.39	360	100	peak

Antenna 2

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

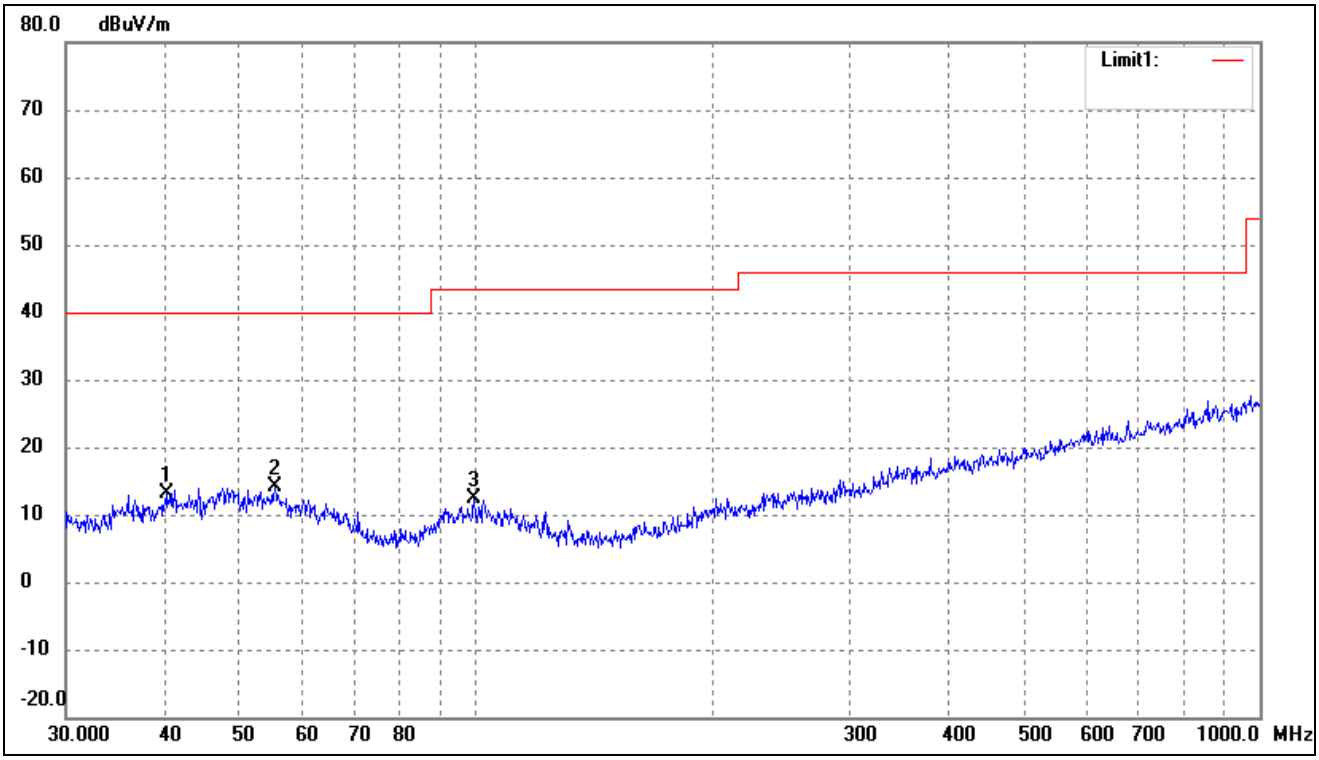
EUT: *Tablet PC*

Tested Model: *360M*

Operating Condition: *802.11b Transmitting Low Channel-2412MHz*

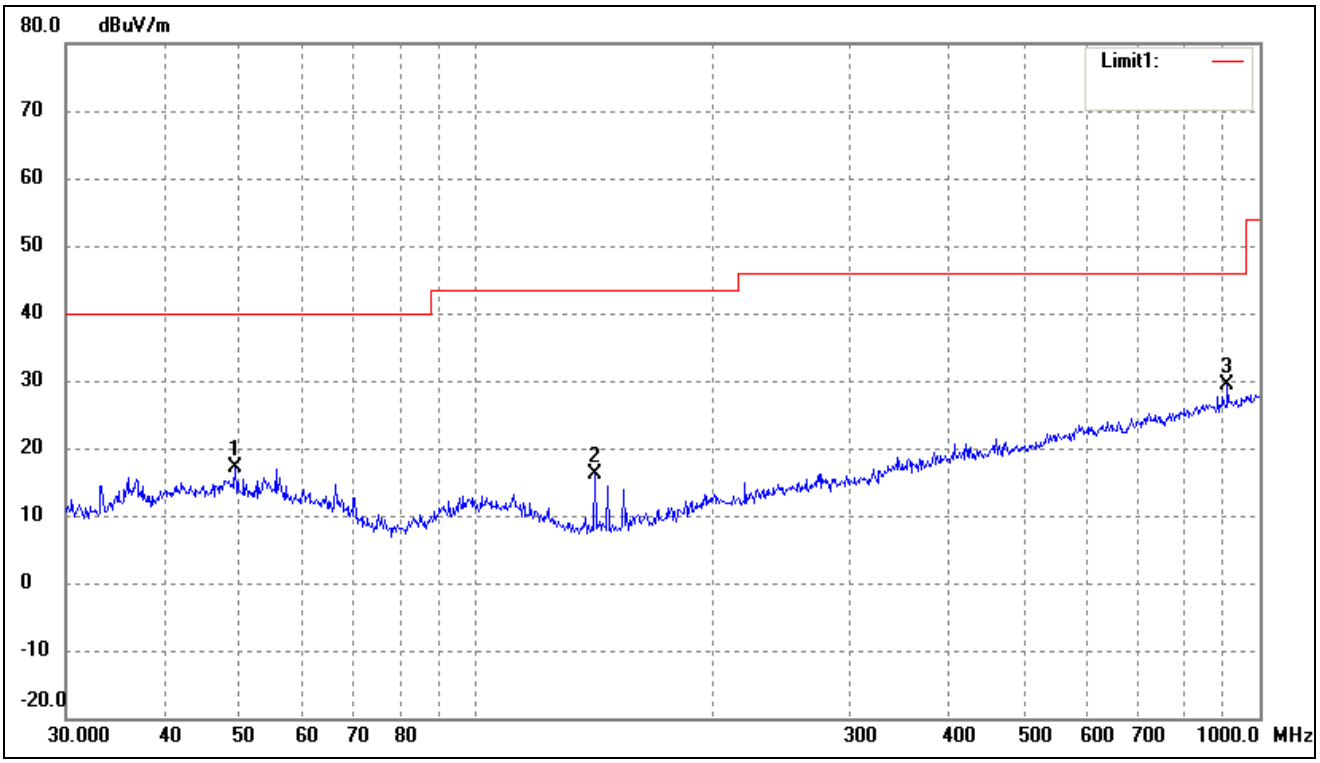
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	40.2757	21.64	-8.39	13.25	40.00	-26.75	105	100	peak
2	55.4147	22.15	-7.99	14.16	40.00	-25.84	160	100	peak
3	99.5281	21.88	-9.61	12.27	43.50	-31.23	180	100	peak

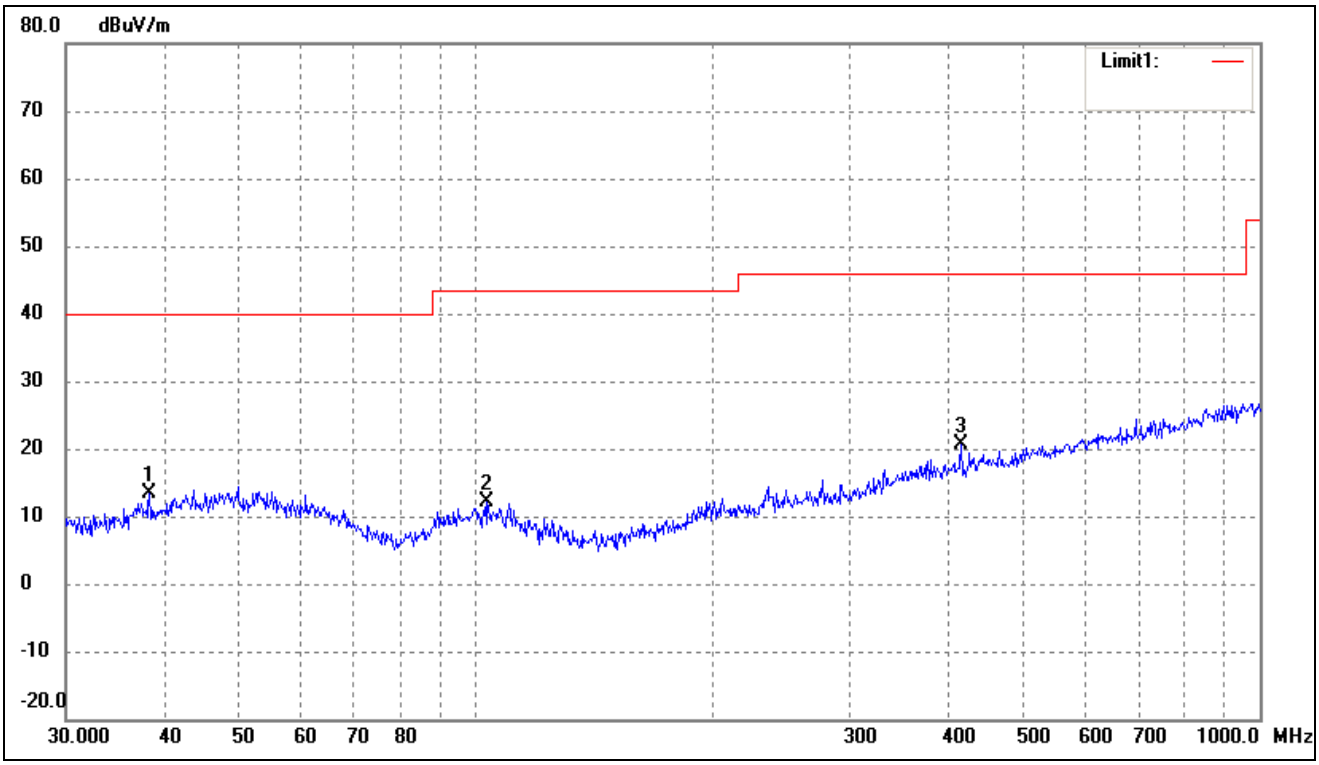
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	49.3594	24.54	-7.45	17.09	40.00	-22.91	140	100	peak
2	141.8262	29.29	-13.12	16.17	43.50	-27.33	250	100	peak
3	909.6667	23.90	5.38	29.28	46.00	-16.72	120	100	peak

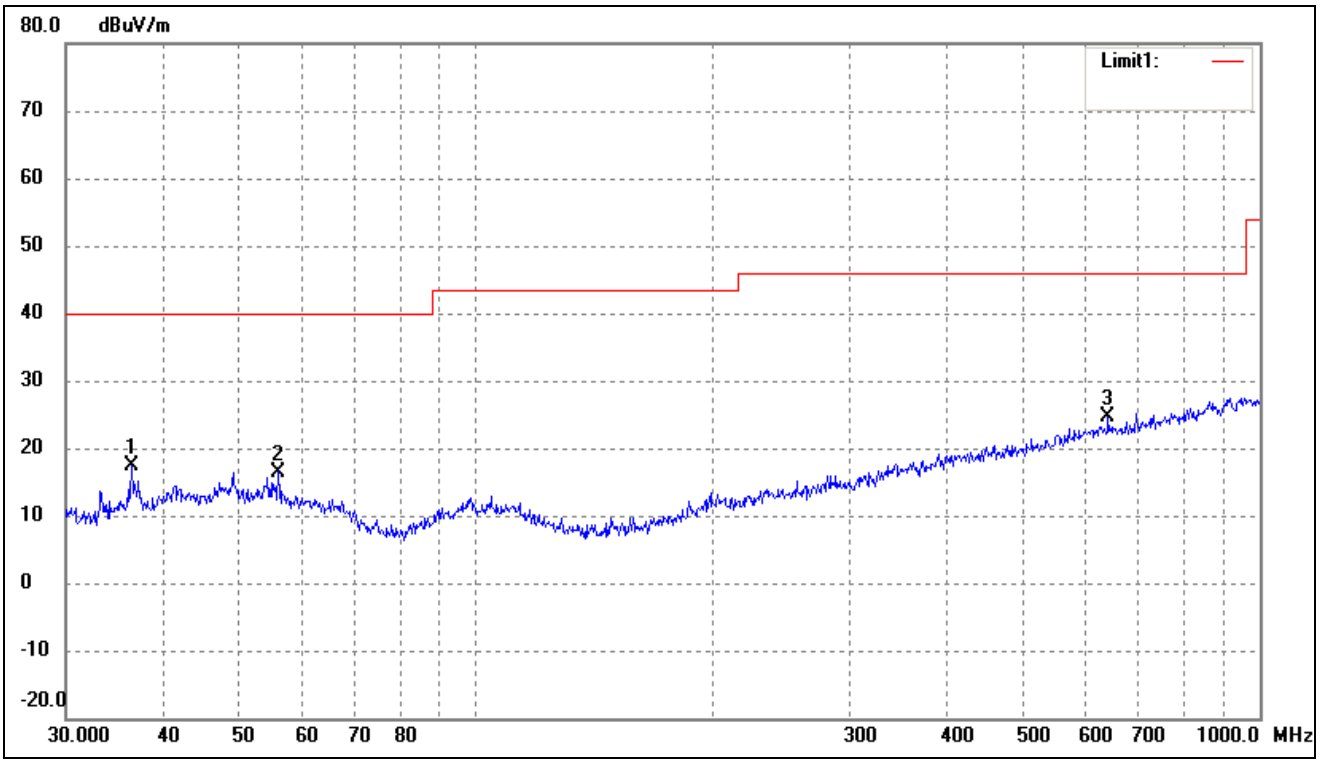
Operating Condition: *802.11b Transmitting Middle Channel-2437MHz*
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	38.3462	22.12	-8.77	13.35	40.00	-26.65	145	100	peak
2	103.4421	21.68	-9.57	12.11	43.50	-31.39	120	100	peak
3	416.1791	23.29	-2.56	20.73	46.00	-25.27	108	100	peak

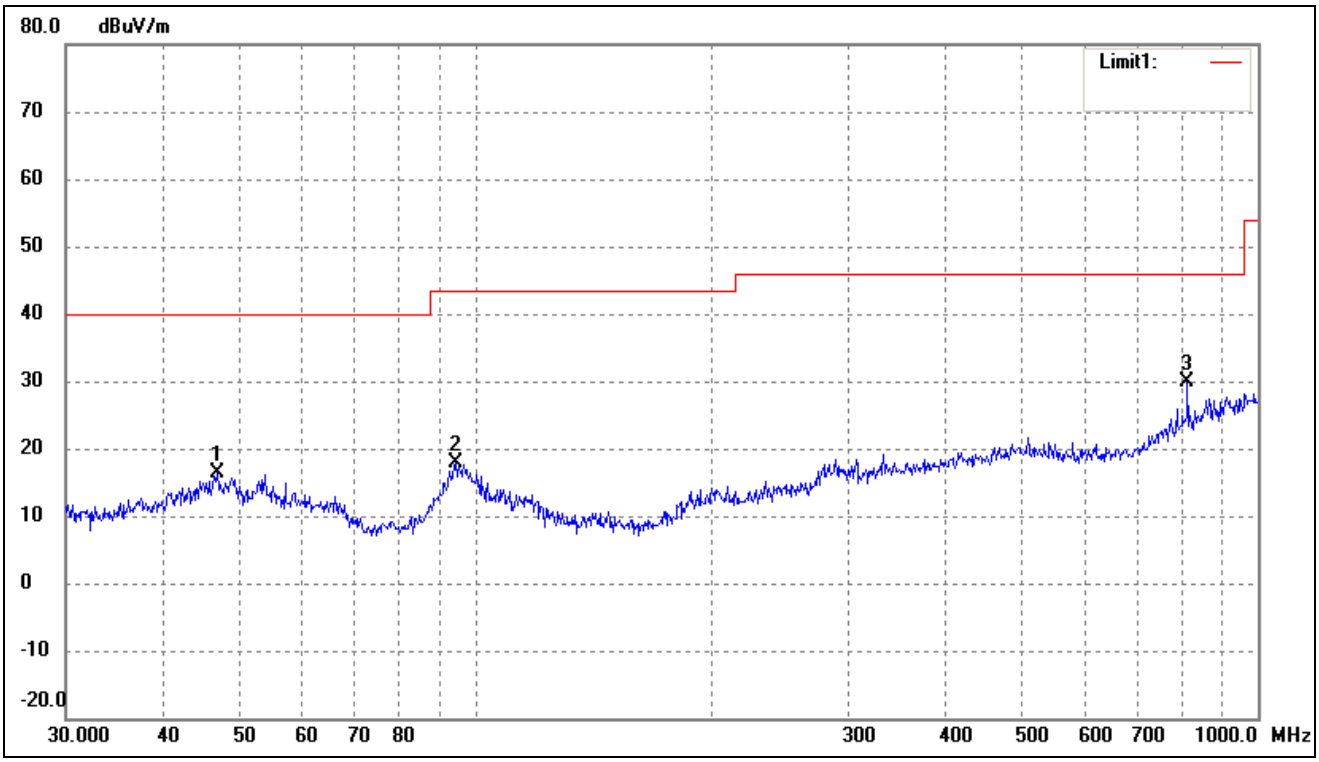
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	36.3814	26.86	-9.52	17.34	40.00	-22.66	120	100	peak
2	56.0007	24.57	-8.07	16.50	40.00	-23.50	113	100	peak
3	640.6110	22.98	1.70	24.68	46.00	-21.32	157	100	peak

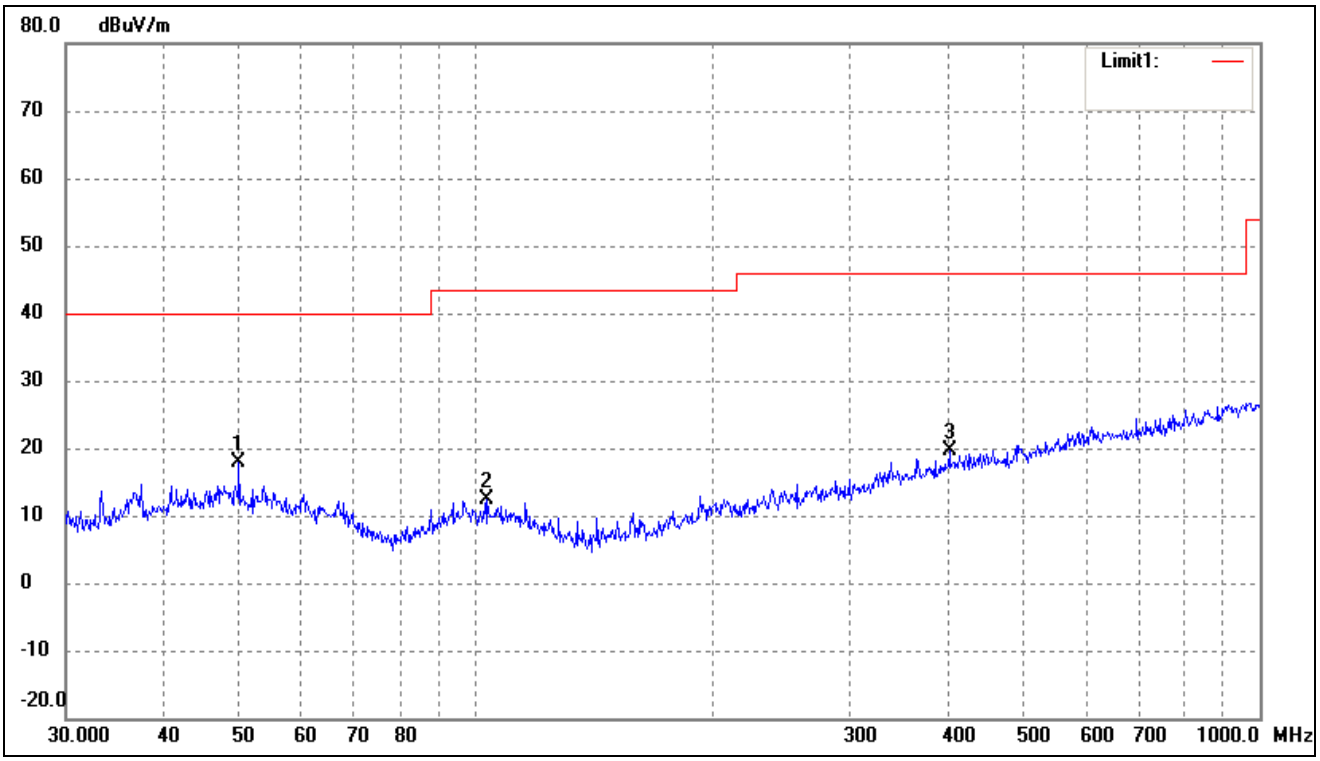
Operating Condition: *802.11b Transmitting High Channel-2462MHz*
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	49.0145	22.54	-7.44	15.10	40.00	-24.90	120	100	peak
2	275.1570	23.41	-6.91	16.50	46.00	-29.50	250	100	peak
3	734.4913	25.08	0.45	25.53	46.00	-20.47	360	100	peak

Test Specification: *Vertical*

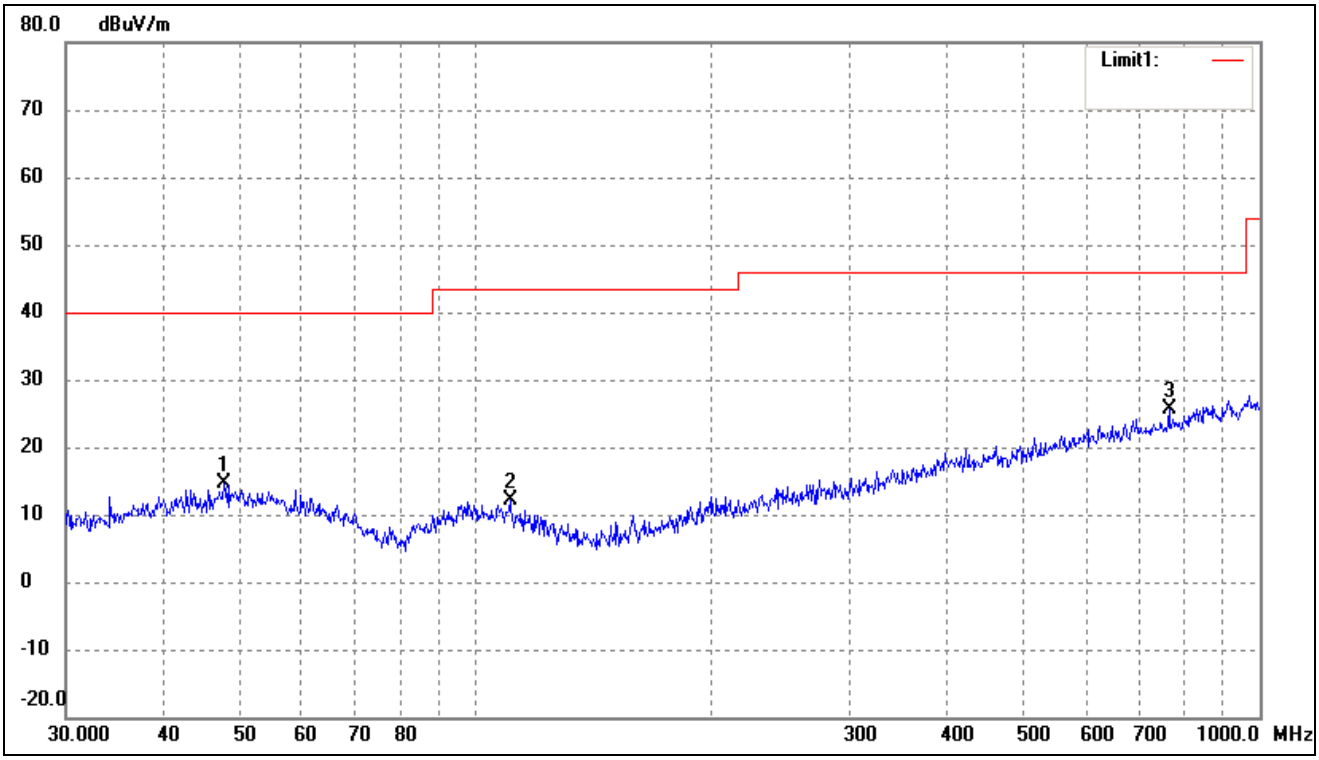


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	49.8814	25.39	-7.44	17.95	40.00	-22.05	360	100	peak
2	103.4421	21.93	-9.57	12.36	43.50	-31.14	200	100	peak
3	401.8385	22.52	-2.89	19.63	46.00	-26.37	120	100	peak

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

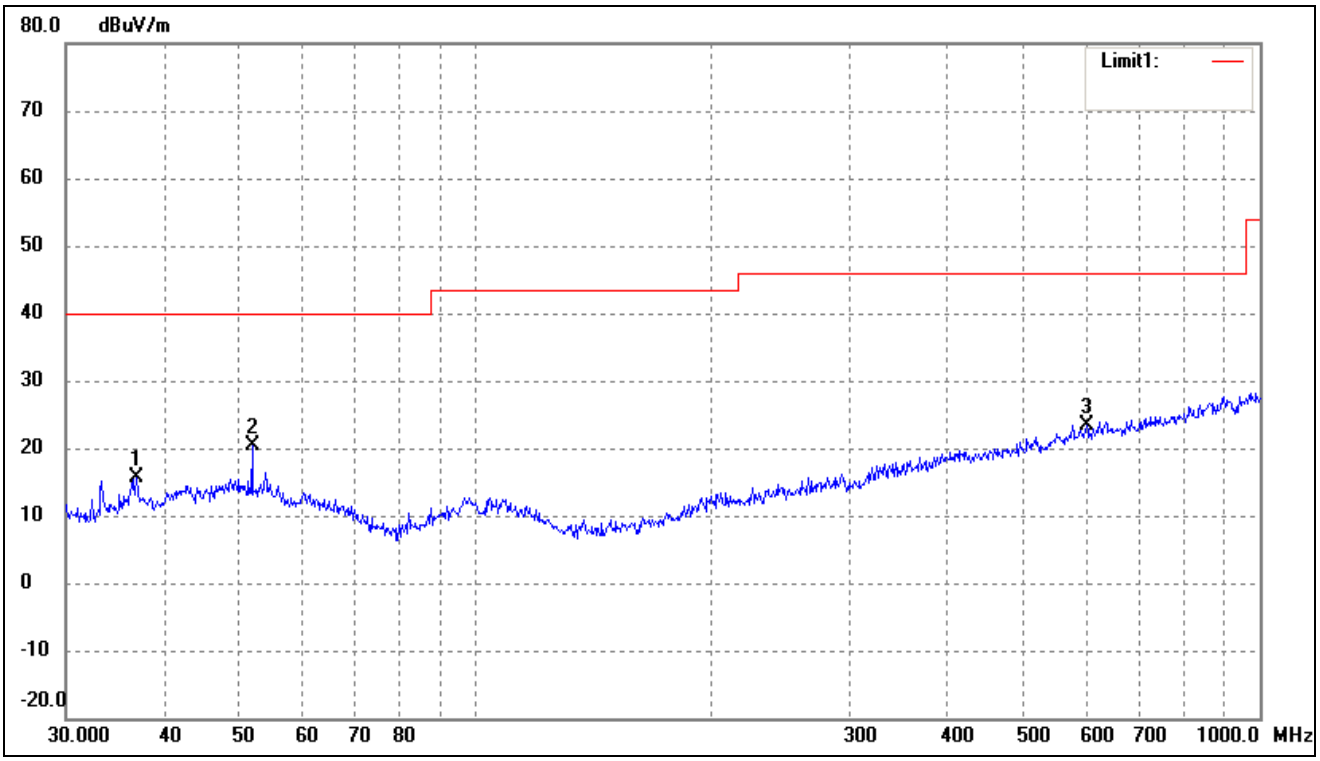
EUT: *Tablet PC*
Tested Model: *360M*
Operating Condition: *802.11g Transmitting Low Channel-2412MHz*
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	47.8260	22.04	-7.46	14.58	40.00	-25.42	170	100	peak
2	110.5687	21.75	-9.70	12.05	43.50	-31.45	120	100	peak
3	766.0572	24.04	1.55	25.59	46.00	-20.41	320	100	peak

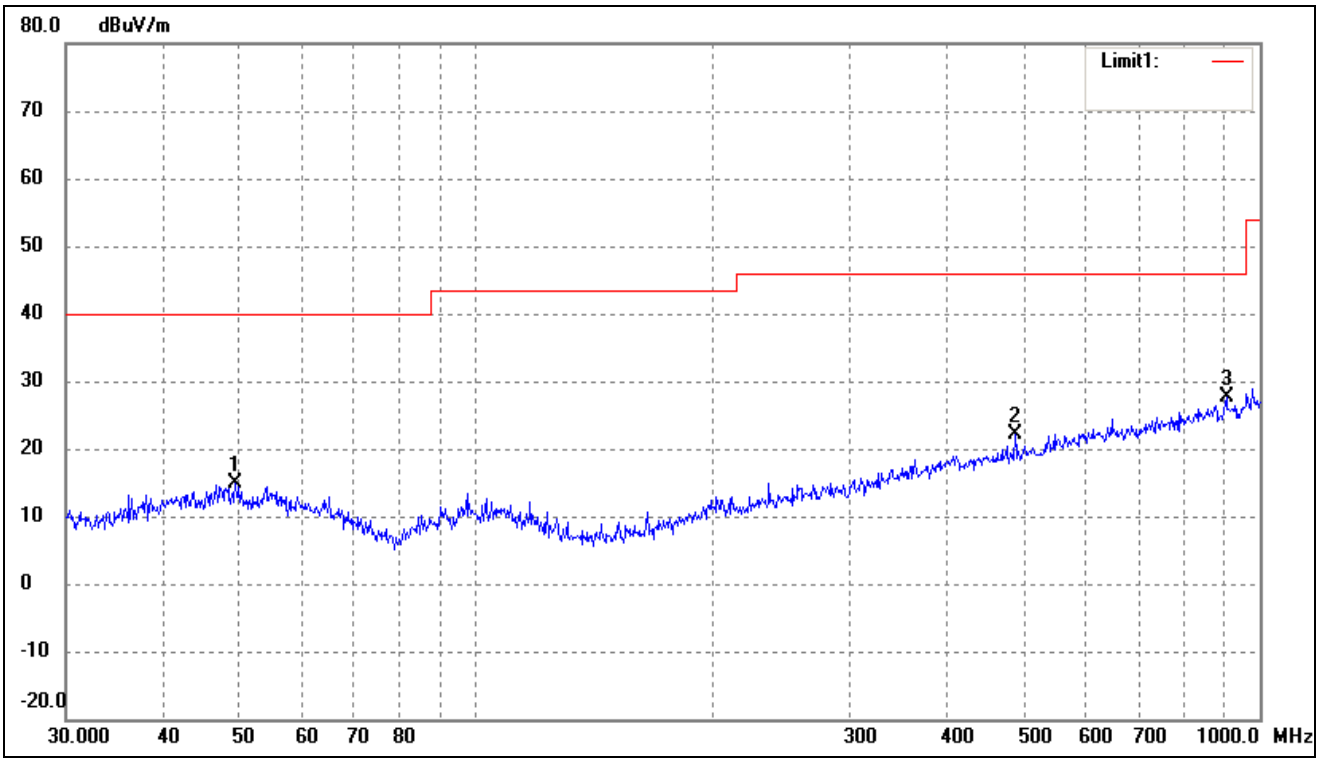
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	33.3279	24.81	-10.48	14.33	40.00	-25.67	270	100	peak
2	108.2667	22.08	-9.59	12.49	43.50	-31.01	190	100	peak
3	345.5952	22.25	-4.38	17.87	46.00	-28.13	360	100	peak

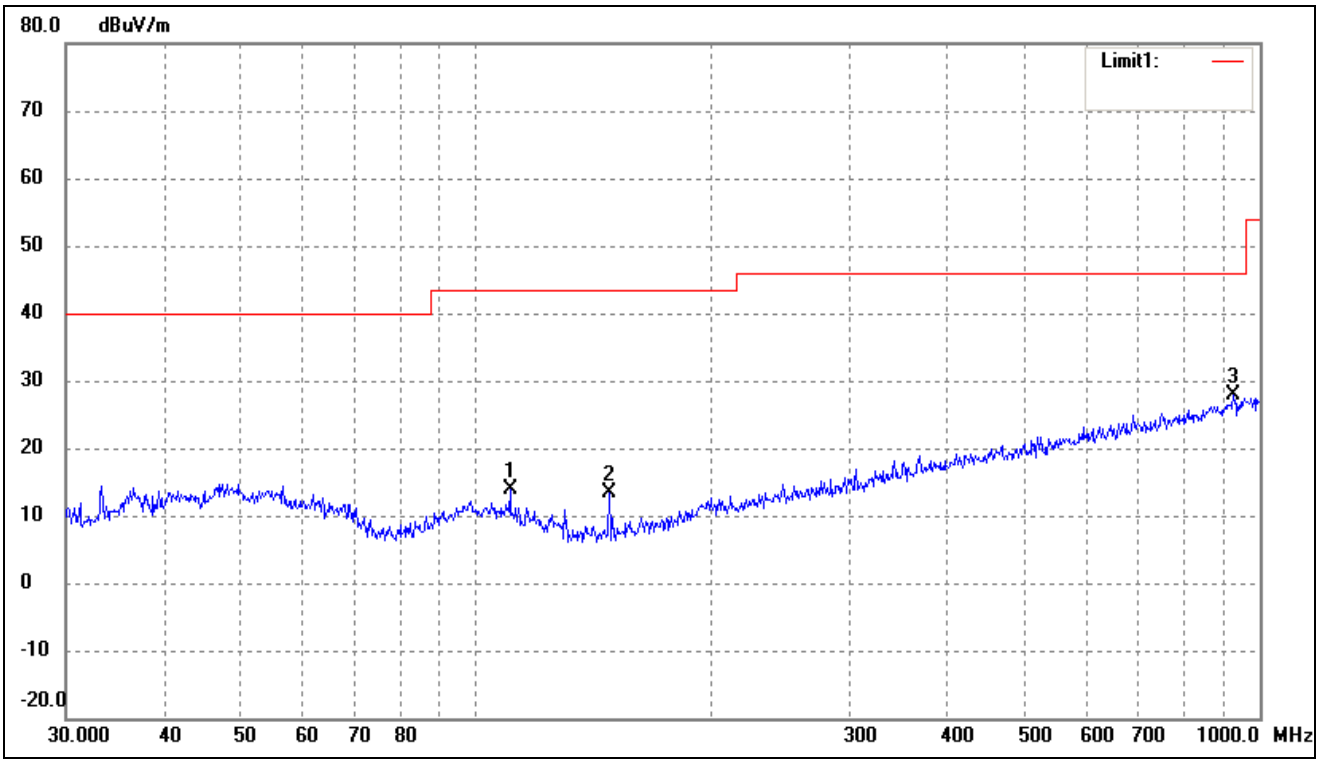
Operating Condition: *802.11g Transmitting Middle Channel-2437MHz*
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	49.3594	22.31	-7.45	14.86	40.00	-25.14	270	100	peak
2	487.3151	23.63	-1.59	22.04	46.00	-23.96	160	100	peak
3	906.4824	22.39	5.34	27.73	46.00	-18.27	228	200	peak

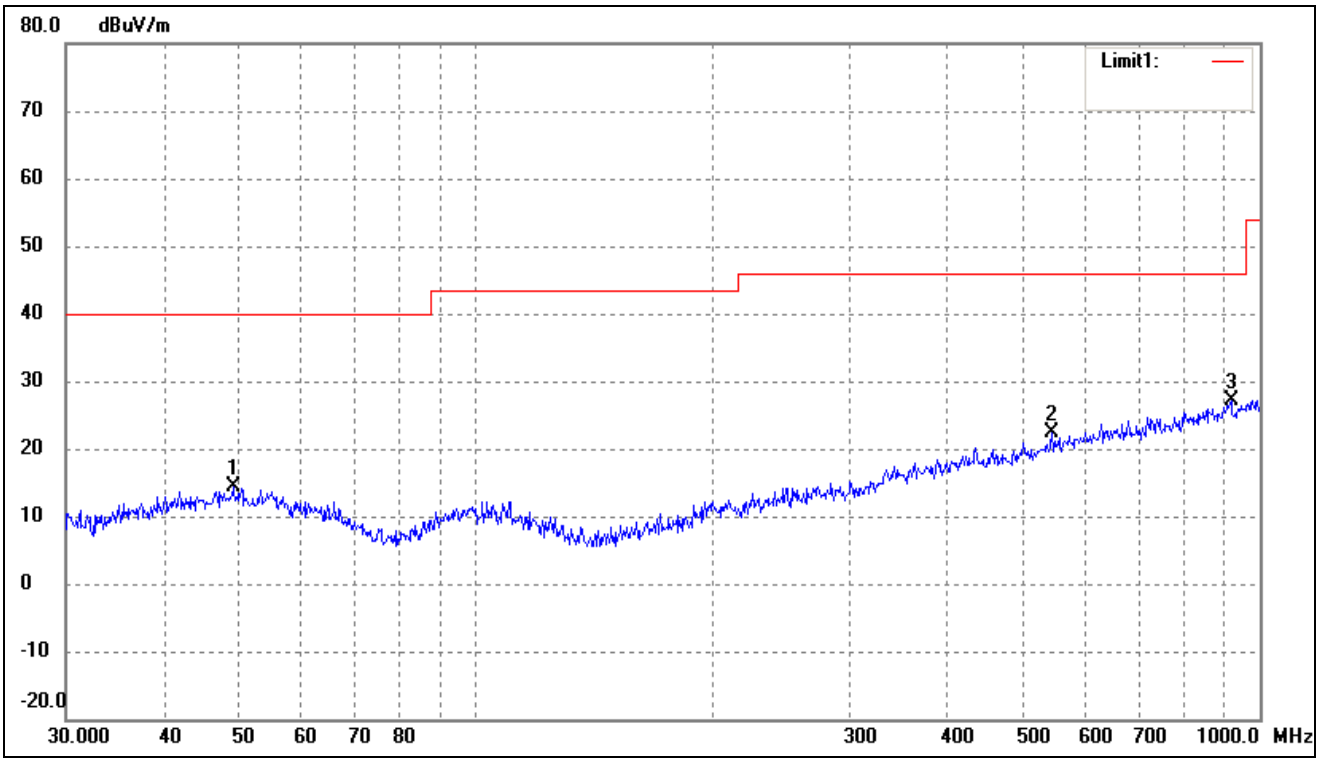
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	35.4993	36.79	-9.88	26.91	40.00	-13.09	360	100	peak
2	45.3755	34.39	-7.46	26.93	40.00	-13.07	120	100	peak
3	93.1132	33.00	-10.57	22.43	43.50	-21.07	270	100	peak

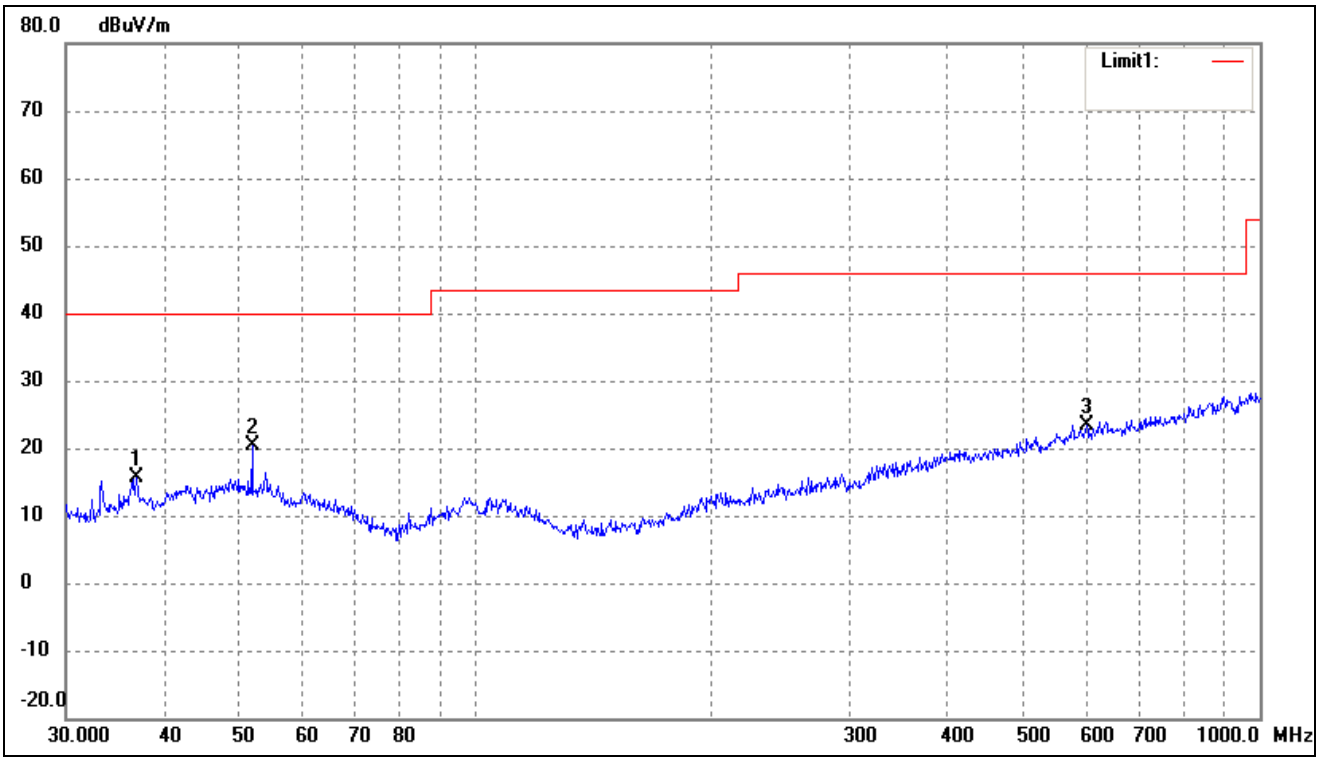
Operating Condition: *802.11g Transmitting High Channel-2462MHz*
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	49.0145	21.82	-7.44	14.38	40.00	-25.62	270	100	peak
2	543.2742	23.82	-1.36	22.46	46.00	-23.54	150	100	peak
3	919.2866	21.65	5.51	27.16	46.00	-18.84	360	100	peak

Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	36.8953	24.99	-9.26	15.73	40.00	-24.27	360	100	peak
2	51.8430	28.03	-7.63	20.40	40.00	-19.60	180	100	peak
3	601.4265	22.32	1.16	23.48	46.00	-22.52	120	100	peak

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

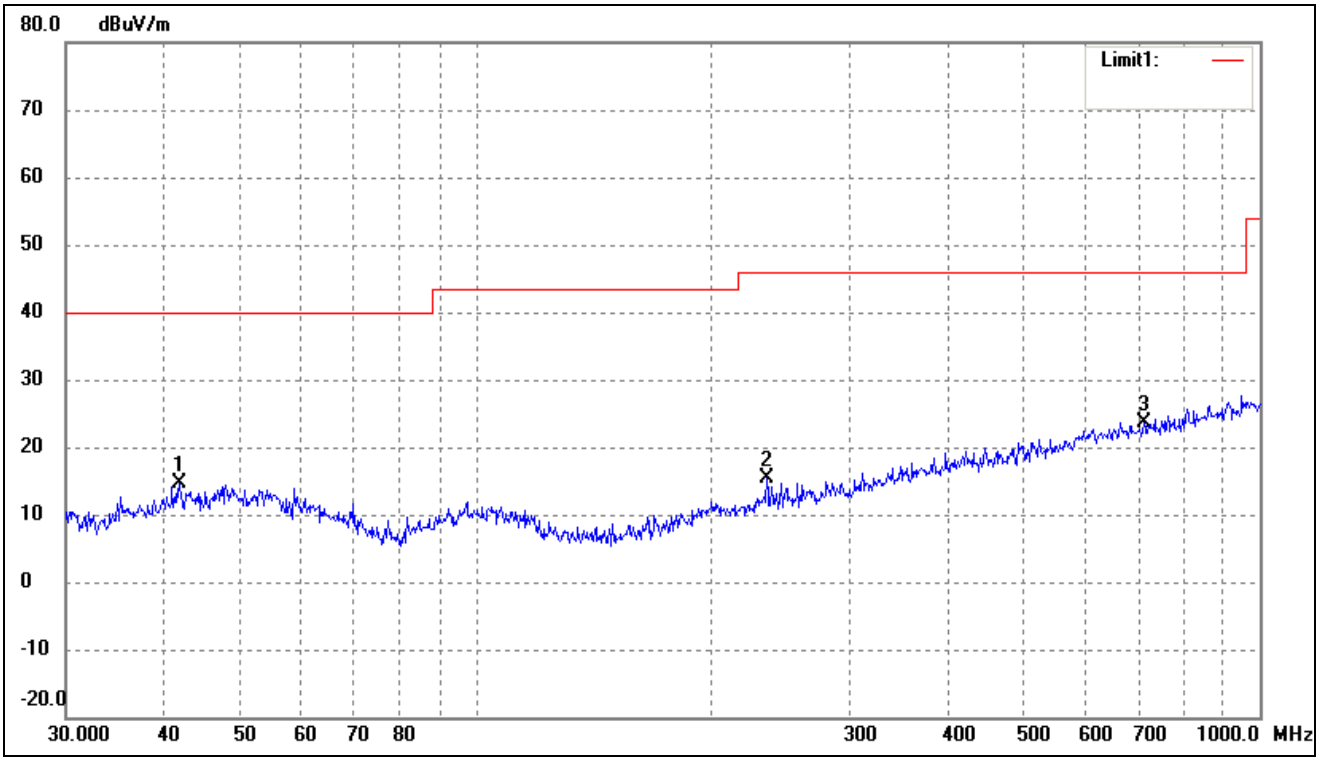
EUT: *Tablet PC*

Tested Model: *360M*

Operating Condition: *802.11n-HT20 Transmitting Low Channel-2412MHz*

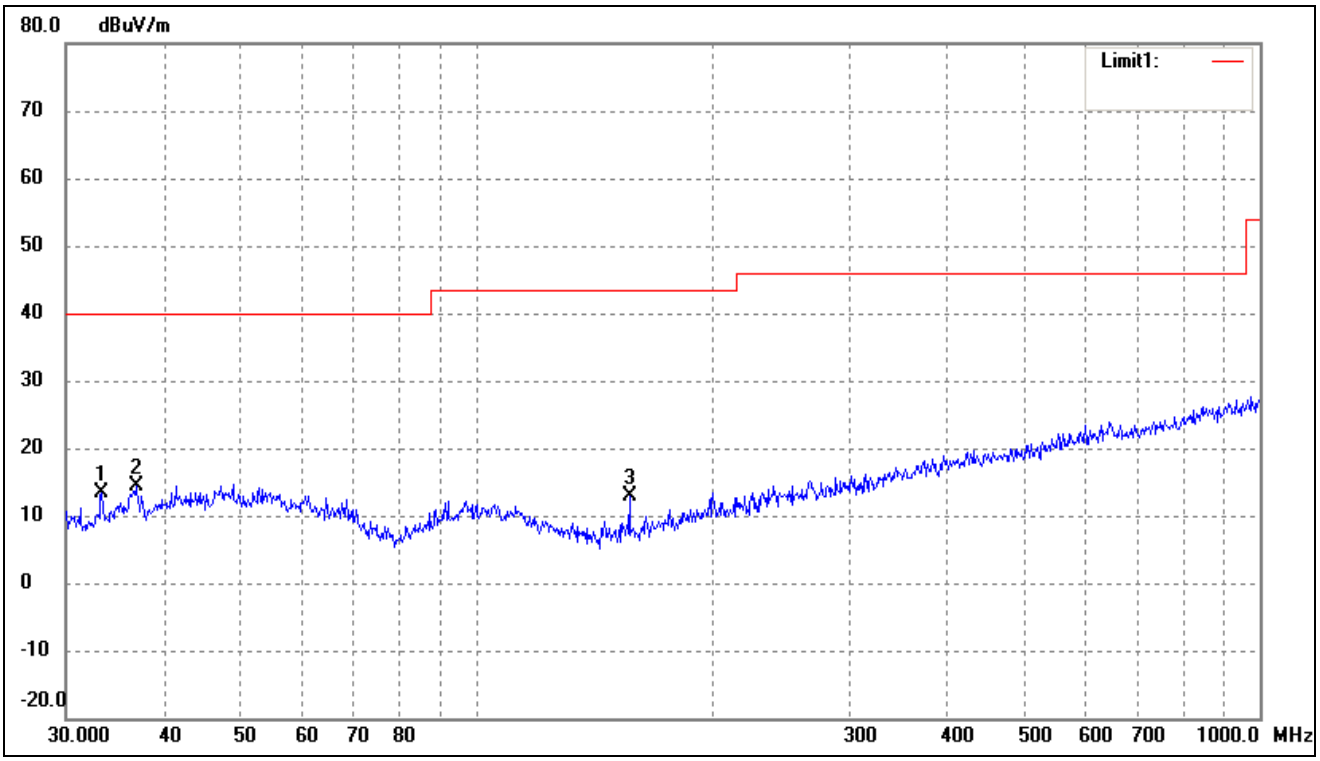
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	41.8596	22.72	-8.08	14.64	40.00	-25.36	260	100	peak
2	234.9909	23.32	-8.06	15.26	46.00	-30.74	120	200	peak
3	711.6734	24.00	-0.38	23.62	46.00	-22.38	289	200	peak

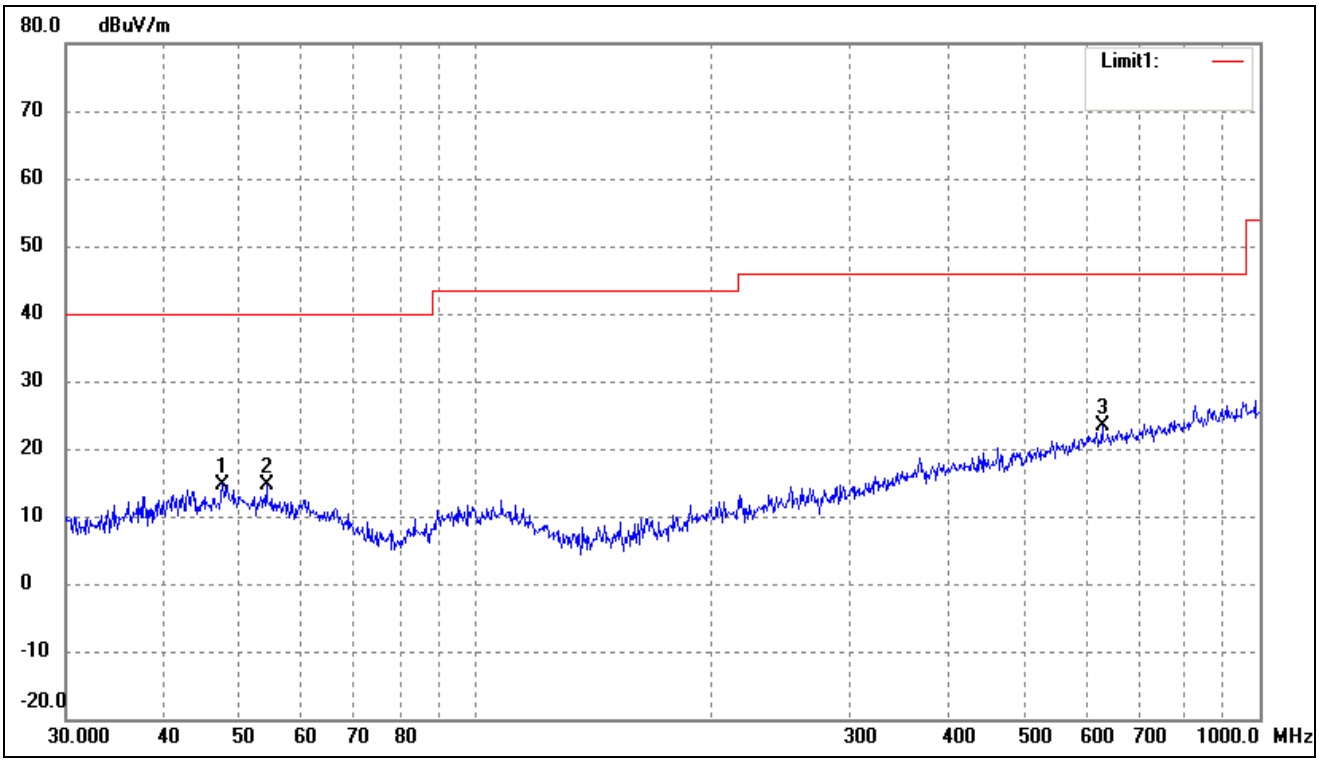
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	33.3279	23.81	-10.48	13.33	40.00	-26.67	130	100	peak
2	36.8953	23.67	-9.26	14.41	40.00	-25.59	120	100	peak
3	157.0074	25.31	-12.52	12.79	43.50	-30.71	360	100	peak

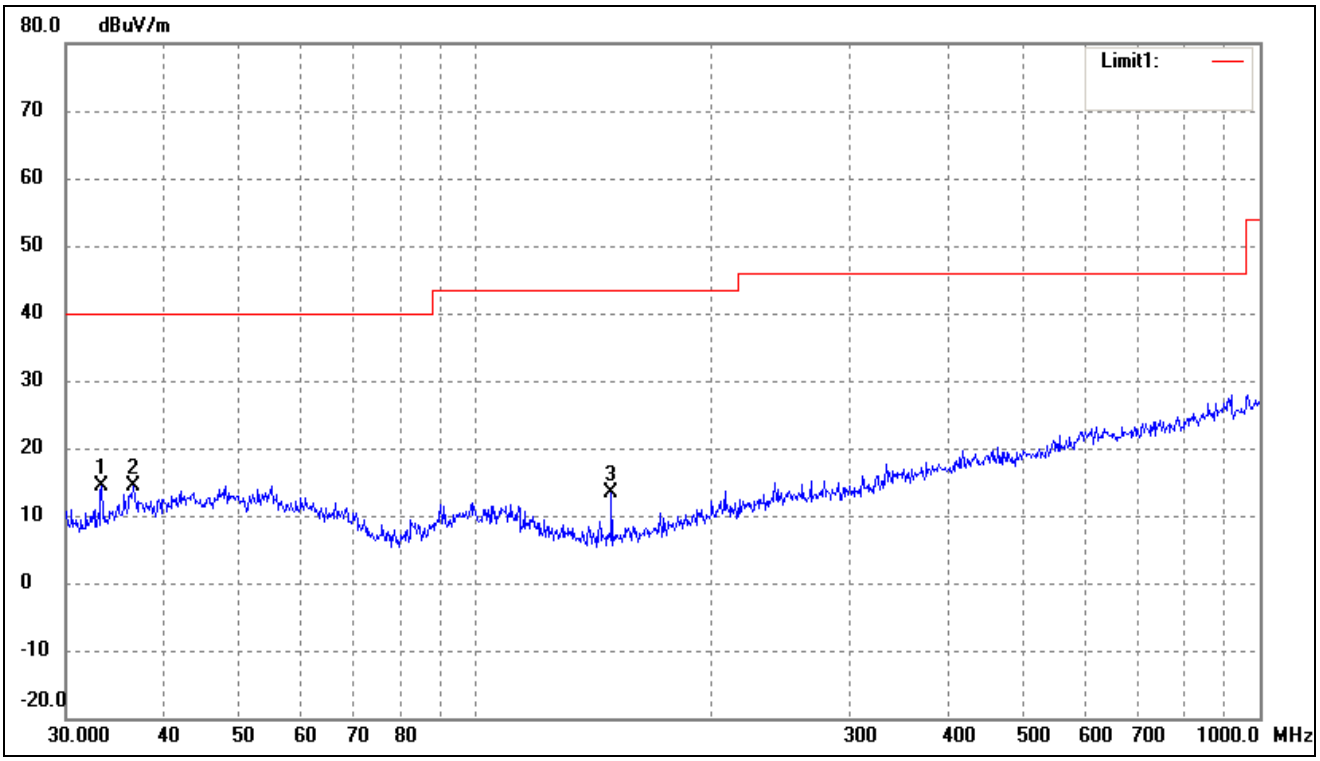
Operating Condition: *802.11n-HT20 Transmitting Middle Channel-2437MHz*
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	47.4918	22.20	-7.45	14.75	40.00	-25.25	274	100	peak
2	54.0711	22.56	-7.85	14.71	40.00	-25.29	130	100	peak
3	629.4772	24.71	-1.44	23.27	46.00	-22.73	120	100	peak

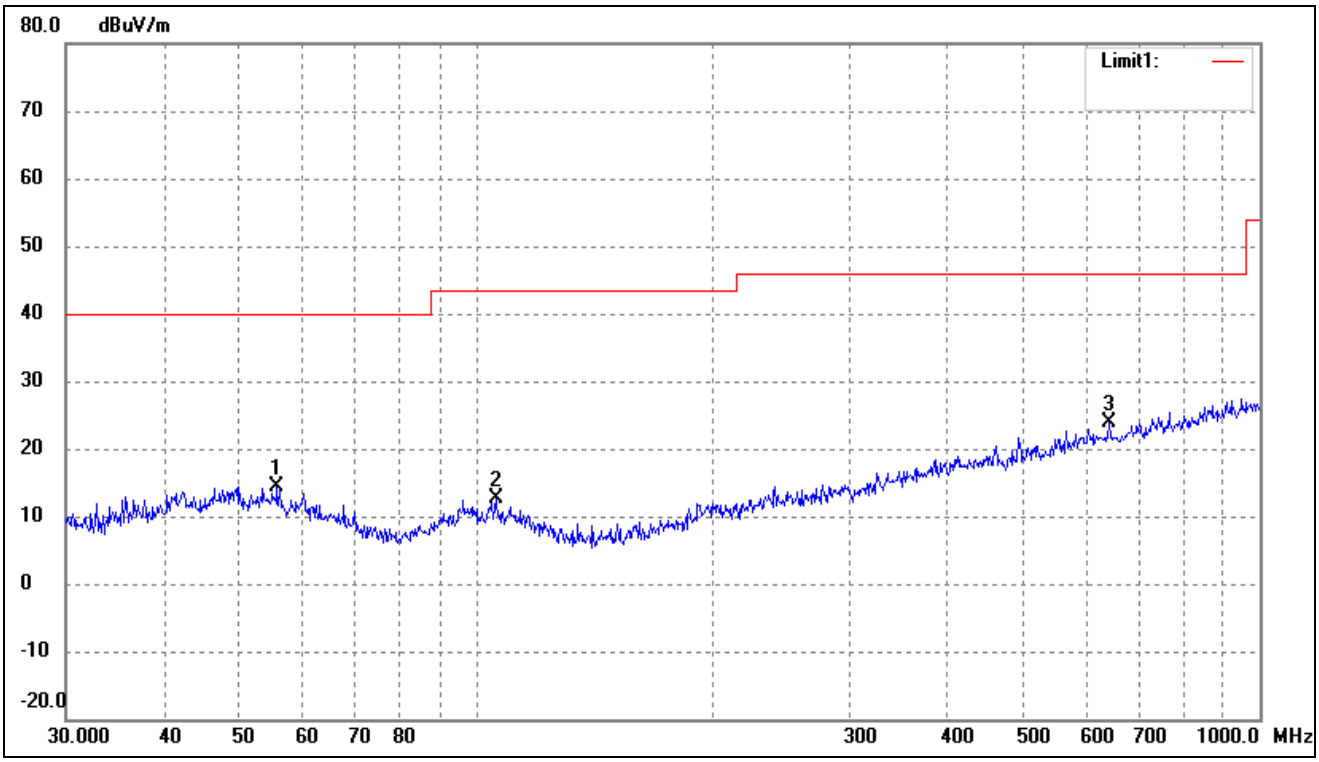
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	33.3279	24.81	-10.48	14.33	40.00	-25.67	360	100	peak
2	36.6375	23.77	-9.39	14.38	40.00	-25.62	110	100	peak
3	148.9625	26.35	-12.98	13.37	43.50	-30.13	120	100	peak

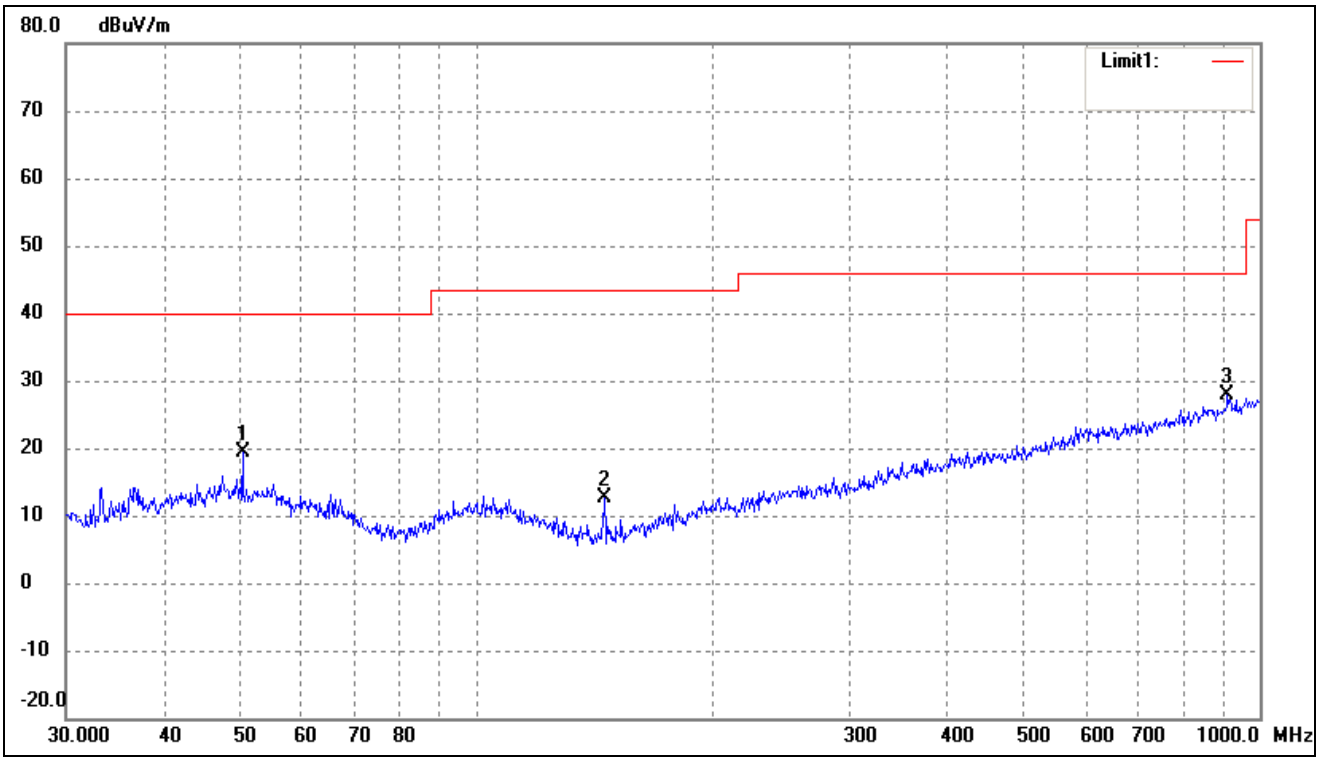
Operating Condition: *802.11n-HT20 Transmitting High Channel-2462MHz*
Comment: *Battery: DC7.4V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	55.8047	22.44	-8.04	14.40	40.00	-25.60	360	100	peak
2	106.0126	22.28	-9.58	12.70	43.50	-30.80	138	100	peak
3	642.8613	25.04	-1.26	23.78	46.00	-22.22	180	200	peak

Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	50.4089	26.75	-7.49	19.26	40.00	-20.74	270	100	peak
2	145.8611	25.70	-13.04	12.66	43.50	-30.84	120	100	peak
3	909.6667	22.53	5.38	27.91	46.00	-18.09	360	100	peak

Spurious Emissions Above 1GHz

Antenna 1

Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2412MHz							
4824.000	59.24	0.57	59.81	74.00	-14.19	H	PK
4824.000	44.84	0.57	45.41	54.00	-8.59	H	AV
7236.000	35.01	3.69	38.70	74.00	-35.30	H	PK
7236.000	23.58	3.69	27.27	54.00	-26.73	H	AV
4824.000	50.85	0.57	51.42	74.00	-22.58	V	PK
4824.000	37.17	0.57	37.74	54.00	-16.26	V	AV
7236.000	34.80	3.69	38.49	74.00	-35.51	V	PK
7236.000	23.41	3.69	27.10	54.00	-26.90	V	AV
Middle Channel-2437MHz							
4874.000	57.35	0.66	58.01	74.00	-15.99	H	PK
4874.000	42.77	0.66	43.43	54.00	-10.57	H	AV
7311.000	37.61	3.76	41.37	74.00	-32.63	H	PK
7311.000	25.87	3.76	29.63	54.00	-24.37	H	AV
4874.000	51.19	0.66	51.85	74.00	-22.15	V	PK
4874.000	37.61	0.66	38.27	54.00	-15.73	V	AV
7311.000	38.83	3.76	42.59	74.00	-31.41	V	PK
7311.000	25.84	3.76	29.60	54.00	-24.40	V	AV
High Channel-2462MHz							
4924.000	56.32	0.74	57.06	74.00	-16.94	H	PK
4924.000	42.94	0.74	43.68	54.00	-10.32	H	AV
7386.000	37.91	3.83	41.74	74.00	-32.26	H	PK
7386.000	27.26	3.83	31.09	54.00	-22.91	H	AV
4924.000	53.07	0.74	53.81	74.00	-20.19	V	PK
4924.000	39.42	0.74	40.16	54.00	-13.84	V	AV
7386.000	38.69	3.83	42.52	74.00	-31.48	V	PK
7386.000	27.20	3.83	31.03	54.00	-22.97	V	AV

Test Mode: 802.11g

Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2412MHz							
4824.000	54.00	0.57	54.57	74.00	-19.43	H	PK
4824.000	47.78	0.57	48.35	54.00	-5.65	H	AV
7236.000	35.17	3.69	38.86	74.00	-35.14	H	PK
7236.000	23.82	3.69	27.51	54.00	-26.49	H	AV
4824.000	42.22	0.57	42.79	74.00	-31.21	V	PK
4824.000	33.11	0.57	33.68	54.00	-20.32	V	AV
7236.000	35.08	3.69	38.77	74.00	-35.23	V	PK
7236.000	23.89	3.69	27.58	54.00	-26.42	V	AV
Middle Channel-2437MHz							
4874.000	53.19	0.66	53.85	74.00	-20.15	H	PK
4874.000	46.35	0.66	47.01	54.00	-6.99	H	AV
7311.000	37.62	3.76	41.38	74.00	-32.62	H	PK
7311.000	26.04	3.76	29.80	54.00	-24.20	H	AV
4874.000	43.36	0.66	44.02	74.00	-29.98	V	PK
4874.000	32.19	0.66	32.85	54.00	-21.15	V	AV
7311.000	37.03	3.76	40.79	74.00	-33.21	V	PK
7311.000	26.65	3.76	30.41	54.00	-23.59	V	AV
High Channel-2462MHz							
4924.000	55.79	0.74	56.53	74.00	-17.47	H	PK
4924.000	33.00	0.74	33.74	54.00	-20.26	H	AV
7386.000	37.86	3.83	41.69	74.00	-32.31	H	PK
7386.000	27.21	3.83	31.04	54.00	-22.96	H	AV
4924.000	45.15	0.74	45.89	74.00	-28.11	V	PK
4924.000	33.60	0.74	34.34	54.00	-19.66	V	AV
7386.000	38.93	3.83	42.76	74.00	-31.24	V	PK
7386.000	27.12	3.83	30.95	54.00	-23.05	V	AV

Test Mode: 802.11n-HT20

Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2412MHz							
4824.000	55.85	0.57	56.42	74.00	-17.58	H	PK
4824.000	32.67	0.57	33.24	54.00	-20.76	H	AV
7236.000	34.49	3.69	38.18	74.00	-35.82	H	PK
7236.000	23.28	3.69	26.97	54.00	-27.03	H	AV
4824.000	43.03	0.57	43.60	74.00	-30.40	V	PK
4824.000	31.74	0.57	32.31	54.00	-21.69	V	AV
7236.000	34.59	3.69	38.28	74.00	-35.72	V	PK
7236.000	23.31	3.69	27.00	54.00	-27.00	V	AV
Middle Channel-2437MHz							
4874.000	53.08	0.66	53.74	74.00	-20.26	H	PK
4874.000	31.66	0.66	32.32	54.00	-21.68	H	AV
7311.000	36.80	3.76	40.56	74.00	-33.44	H	PK
7311.000	26.16	3.76	29.92	54.00	-24.08	H	AV
4874.000	44.14	0.66	44.80	74.00	-29.20	V	PK
4874.000	32.41	0.66	33.07	54.00	-20.93	V	AV
7311.000	37.59	3.76	41.35	74.00	-32.65	V	PK
7311.000	25.48	3.76	29.24	54.00	-24.76	V	AV
High Channel-2462MHz							
4924.000	53.25	0.74	53.99	74.00	-20.01	H	PK
4924.000	31.69	0.74	32.43	54.00	-21.57	H	AV
7386.000	38.35	3.83	42.18	74.00	-31.82	H	PK
7386.000	27.19	3.83	31.02	54.00	-22.98	H	AV
4924.000	43.52	0.74	44.26	74.00	-29.74	V	PK
4924.000	31.12	0.74	31.86	54.00	-22.14	V	AV
7386.000	38.66	3.83	42.49	74.00	-31.51	V	PK
7386.000	26.99	3.83	30.82	54.00	-23.18	V	AV

Antenna 2

Test Mode: 802.11b

Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2412MHz							
4824	54.09	0.57	54.66	74.00	-19.34	H	PK
4824	38.84	0.57	39.41	54.00	-14.59	H	AV
7236	46.30	3.69	49.99	74.00	-24.01	H	PK
7236	34.98	3.69	38.67	54.00	-15.33	H	AV
4824	57.31	0.57	57.88	74.00	-16.12	V	PK
4824	40.50	0.57	41.07	54.00	-12.93	V	AV
7236	49.11	3.69	52.80	74.00	-21.20	V	PK
7236	37.44	3.69	41.13	54.00	-12.87	V	AV
Middle Channel-2442MHz							
4884	54.74	0.66	55.40	74.00	-18.60	H	PK
4884	39.99	0.66	40.65	54.00	-13.35	H	AV
7326	47.77	3.76	51.53	74.00	-22.47	H	PK
7326	33.10	3.76	36.86	54.00	-17.14	H	AV
4884	53.97	0.66	54.63	74.00	-19.37	V	PK
4884	40.89	0.66	41.55	54.00	-12.45	V	AV
7326	47.98	3.76	51.74	74.00	-22.26	V	PK
7326	34.08	3.76	37.84	54.00	-16.16	V	AV
High Channel-2472MHz							
4944	55.82	0.74	56.56	74.00	-17.44	H	PK
4944	41.76	0.74	42.50	54.00	-11.50	H	AV
7416	46.38	3.83	50.21	74.00	-23.79	H	PK
7416	34.83	3.83	38.66	54.00	-15.34	H	AV
4944	54.94	0.74	55.68	74.00	-18.32	V	PK
4944	42.04	0.74	42.78	54.00	-11.22	V	AV
7416	47.99	3.83	51.82	74.00	-22.18	V	PK
7416	35.18	3.83	39.01	54.00	-14.99	V	AV

Test Mode: 802.11g

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824	55.50	0.57	56.07	74.00	-17.93	H	PK
4824	42.23	0.57	42.80	54.00	-11.20	H	AV
7236	48.42	3.69	52.11	74.00	-21.89	H	PK
7236	34.40	3.69	38.09	54.00	-15.91	H	AV
4824	55.99	0.57	56.56	74.00	-17.44	V	PK
4824	42.65	0.57	43.22	54.00	-10.78	V	AV
7236	49.22	3.69	52.91	74.00	-21.09	V	PK
7236	35.54	3.69	39.23	54.00	-14.77	V	AV
Middle Channel-2442MHz							
4884	55.10	0.66	55.76	74.00	-18.24	H	PK
4884	43.28	0.66	43.94	54.00	-10.06	H	AV
7326	47.38	3.76	51.14	74.00	-22.86	H	PK
7326	35.27	3.76	39.03	54.00	-14.97	H	AV
4884	57.07	0.66	57.73	74.00	-16.27	V	PK
4884	43.86	0.66	44.52	54.00	-9.48	V	AV
7326	48.40	3.76	52.16	74.00	-21.84	V	PK
7326	35.33	3.76	39.09	54.00	-14.91	V	AV
High Channel-2472MHz							
4944	54.00	0.74	54.74	74.00	-19.26	H	PK
4944	40.75	0.74	41.49	54.00	-12.51	H	AV
7416	47.18	3.83	51.01	74.00	-22.99	H	PK
7416	34.73	3.83	38.56	54.00	-15.44	H	AV
4944	56.11	0.74	56.85	74.00	-17.15	V	PK
4944	42.69	0.74	43.43	54.00	-10.57	V	AV
7416	48.58	3.83	52.41	74.00	-21.59	V	PK
7416	35.95	3.83	39.78	54.00	-14.22	V	AV

Test Mode: 802.11n-HT20

Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2412MHz							
4824	55.60	0.57	56.17	74.00	-17.83	H	PK
4824	40.54	0.57	41.11	54.00	-12.89	H	AV
7236	47.26	3.69	50.95	74.00	-23.05	H	PK
7236	34.44	3.69	38.13	54.00	-15.87	H	AV
4824	56.71	0.57	57.28	74.00	-16.72	V	PK
4824	43.18	0.57	43.75	54.00	-10.25	V	AV
7236	49.21	3.69	52.90	74.00	-21.10	V	PK
7236	35.77	3.69	39.46	54.00	-14.54	V	AV
Middle Channel-2442MHz							
4884	54.16	0.66	54.82	74.00	-19.18	H	PK
4884	42.48	0.66	43.14	54.00	-10.86	H	AV
7326	48.74	3.76	52.50	74.00	-21.50	H	PK
7326	33.10	3.76	36.86	54.00	-17.14	H	AV
4884	54.92	0.66	55.58	74.00	-18.42	V	PK
4884	42.62	0.66	43.28	54.00	-10.72	V	AV
7326	48.49	3.76	52.25	74.00	-21.75	V	PK
7326	35.20	3.76	38.96	54.00	-15.04	V	AV
High Channel-2472MHz							
4944	53.90	0.74	54.64	74.00	-19.36	H	PK
4944	43.23	0.74	43.97	54.00	-10.03	H	AV
7416	48.31	3.83	52.14	74.00	-21.86	H	PK
7416	36.10	3.83	39.93	54.00	-14.07	H	AV
4944	55.70	0.74	56.44	74.00	-17.56	V	PK
4944	41.48	0.74	42.22	54.00	-11.78	V	AV
7416	48.55	3.83	52.38	74.00	-21.62	V	PK
7416	35.36	3.83	39.19	54.00	-14.81	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3th Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
The measurements greater than 20dB below the limit from 9kHz to 30MHz.

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 v03r03, 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 V03r03, 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 ≥ 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

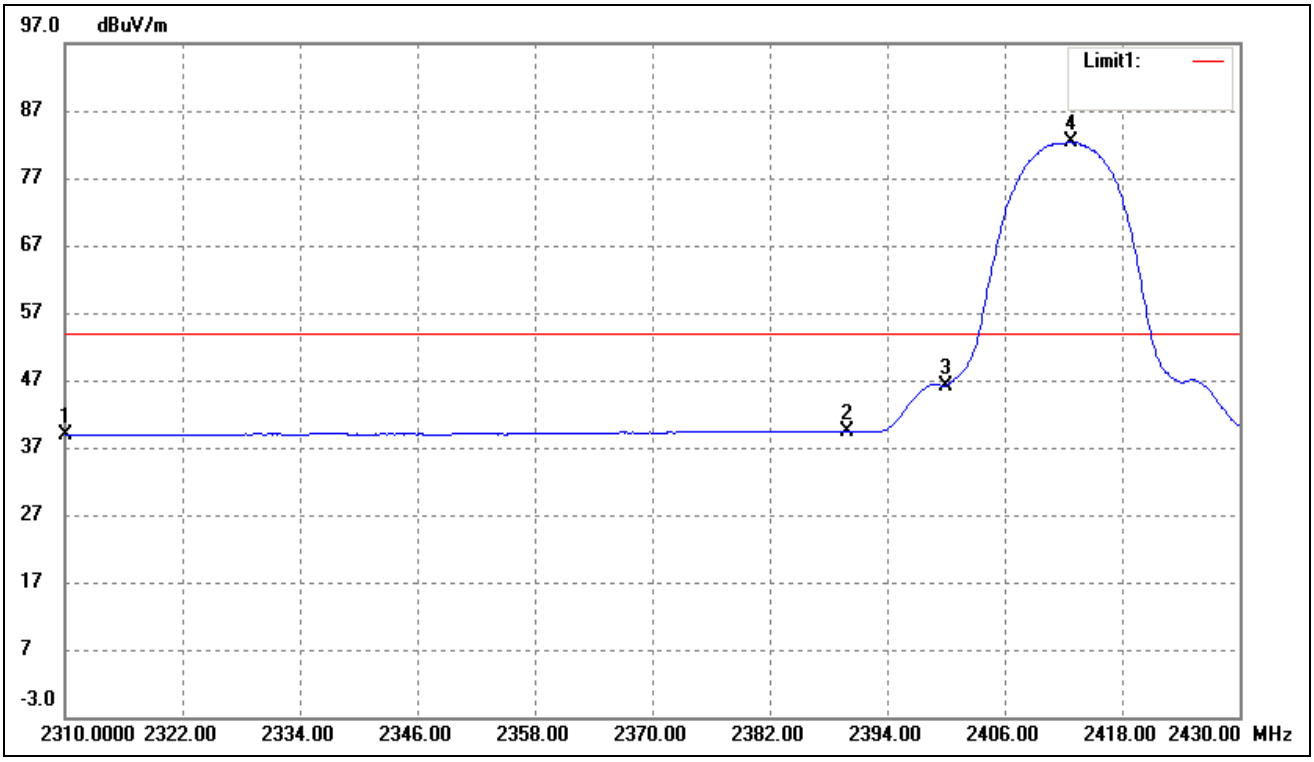
Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

9.4 Summary of Test Results/Plots

Antenna 1

802.11b-Lowest Bandedge

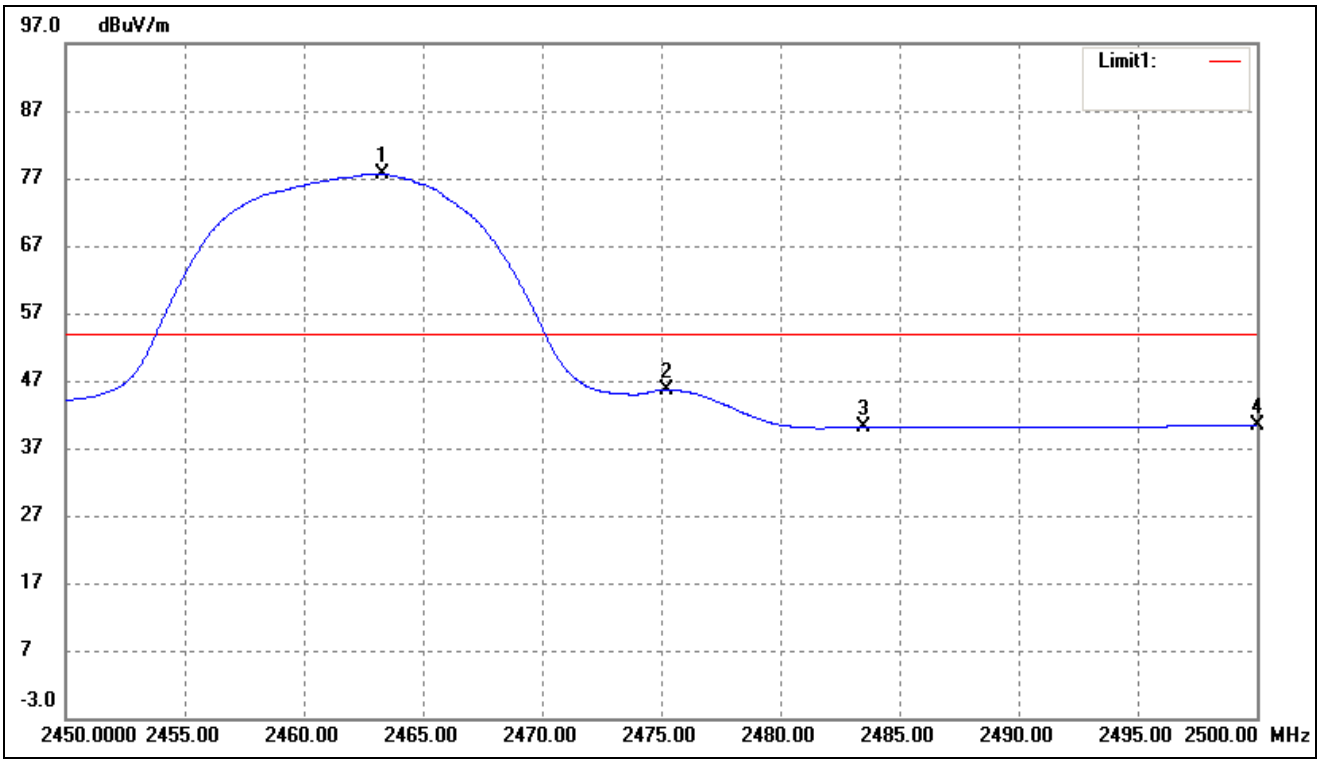
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	22.64	16.34	38.98	54.00	-15.02	Average Detector
	2310.000	35.01	16.34	51.35	74.00	-22.65	Peak Detector
2	2390.000	22.25	17.03	39.28	54.00	-14.72	Average Detector
	2390.000	34.79	17.03	51.82	74.00	-22.18	Peak Detector
3	2400.000	29.09	17.11	46.20	Delta =36.11dBc		Average Detector
4	2412.720	65.11	17.20	82.31			Average Detector

802.11b-Highest Bandedge

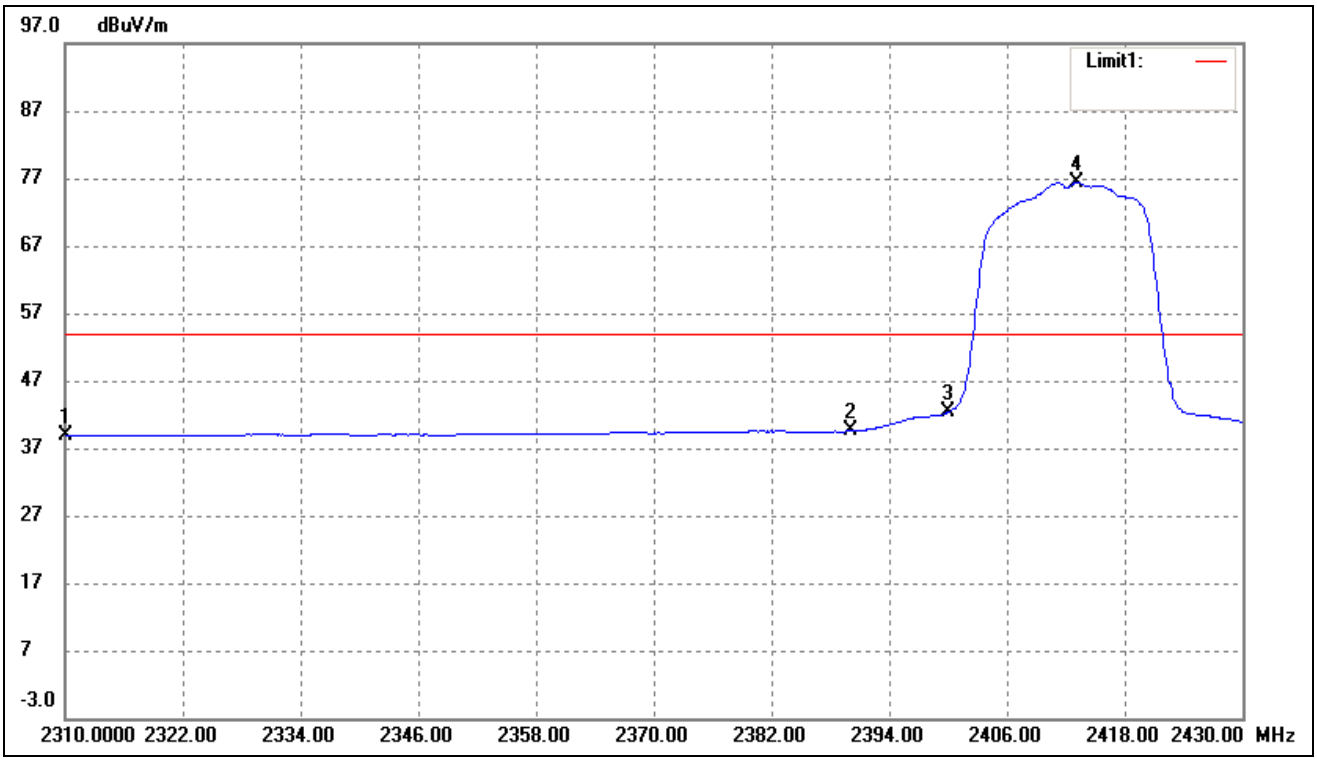
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.300	60.10	17.58	77.68	/	/	Average Detector
	2463.350	68.50	17.58	86.08	/	/	Peak Detector
2	2475.250	27.99	17.68	45.67	54.00	-8.33	Average Detector
3	2483.500	22.29	17.73	40.02	54.00	-13.98	Average Detector
	2483.500	35.10	17.73	52.83	74.00	-21.17	Peak Detector
4	2500.000	22.44	17.86	40.30	54.00	-13.70	Average Detector
	2500.000	34.13	17.86	51.99	74.00	-22.01	Peak Detector

802.11g-Lowest Bandedge

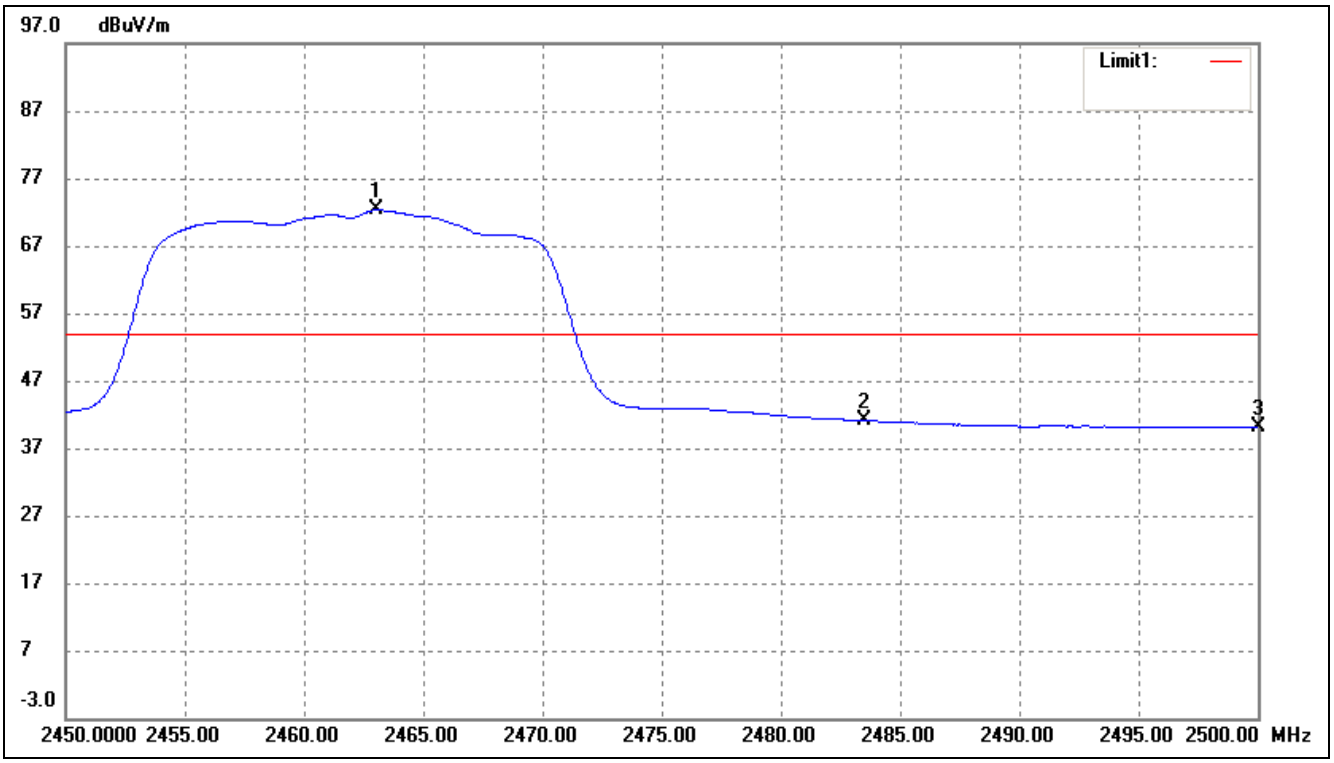
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	22.61	16.34	38.95	54.00	-15.05	Average Detector
	2310.000	36.01	16.34	52.35	74.00	-21.65	Peak Detector
2	2390.000	22.49	17.03	39.52	54.00	-14.48	Average Detector
	2390.000	35.04	17.03	52.07	74.00	-21.93	Peak Detector
3	2400.000	25.26	17.11	42.37	Delta =33.97dBc		Average Detector
4	2413.080	59.14	17.20	76.34			Average Detector

802.11g-Highest Bandedge

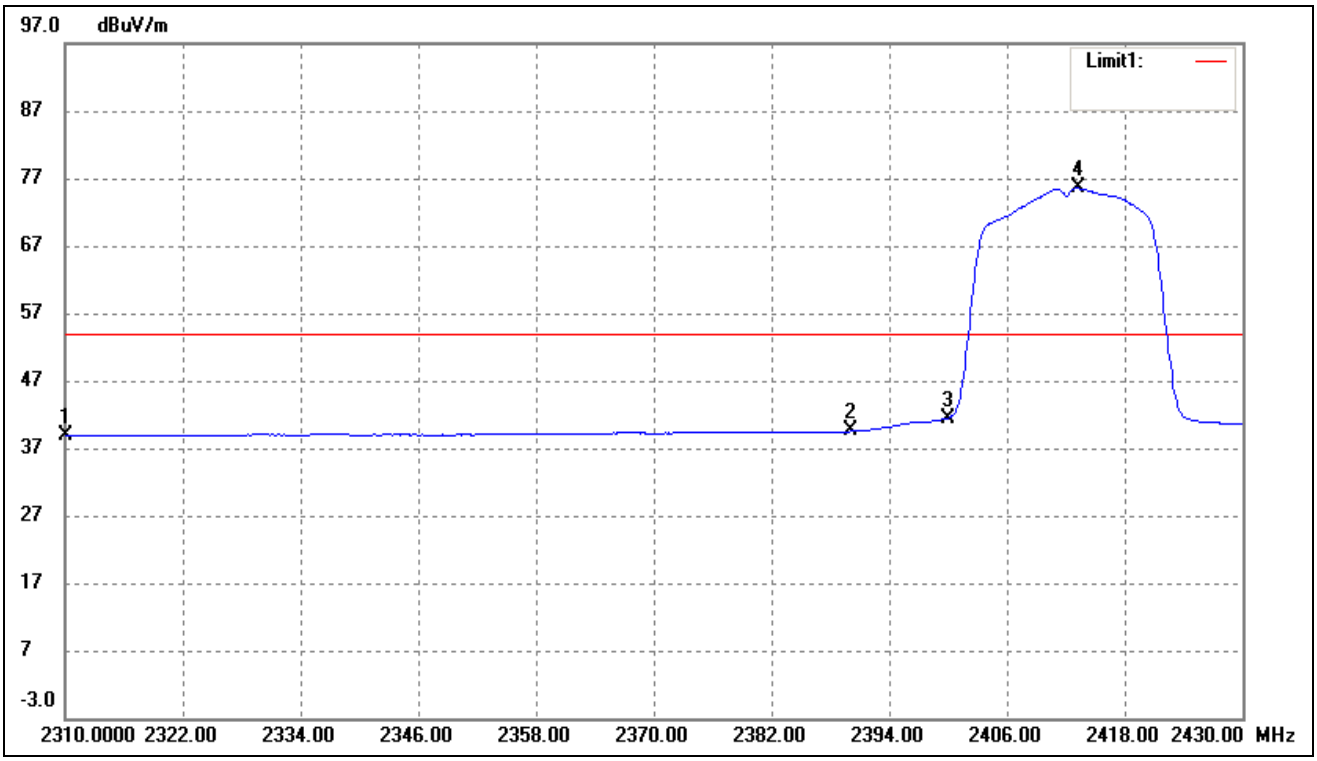
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.050	54.75	17.58	72.33	/	/	Average Detector
	2463.300	65.68	17.58	83.26	/	/	Peak Detector
2	2483.530	23.33	17.73	41.06	54.00	-12.94	Average Detector
	2483.500	35.90	17.73	53.63	74.00	-20.37	Peak Detector
3	2500.000	22.33	17.86	40.19	54.00	-13.81	Average Detector
	2500.000	35.56	17.86	53.42	74.00	-20.58	Peak Detector

802.11n-HT20-Lowest Bandedge

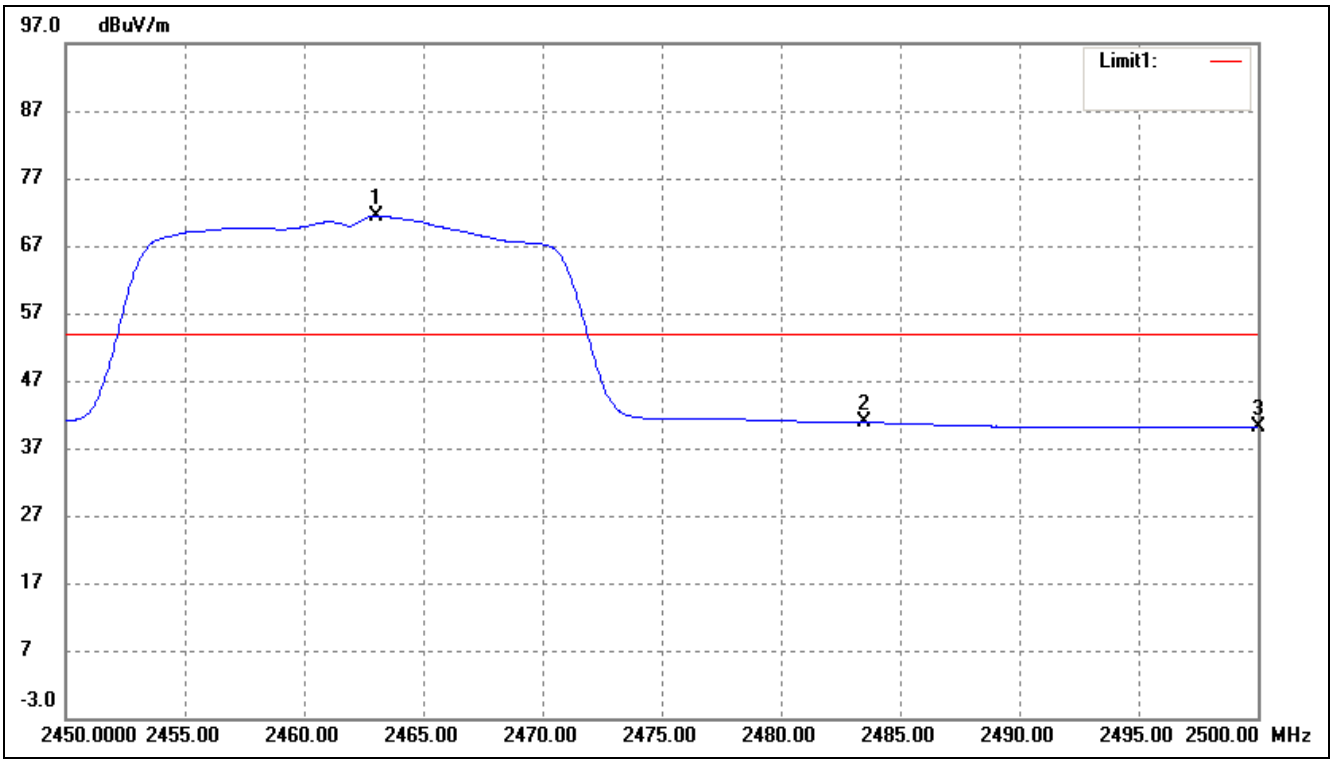
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	22.64	16.34	38.98	54.00	-15.02	Average Detector
	2310.000	33.82	16.34	50.16	74.00	-23.84	Peak Detector
2	2390.000	22.50	17.03	39.53	54.00	-14.47	Average Detector
	2390.000	34.31	17.03	51.34	74.00	-22.66	Peak Detector
3	2400.000	24.39	17.11	41.50	Delta =34.04dBc		Average Detector
4	2413.200	58.33	17.21	75.54			Average Detector

802.11n-HT20-Highest Bandedge

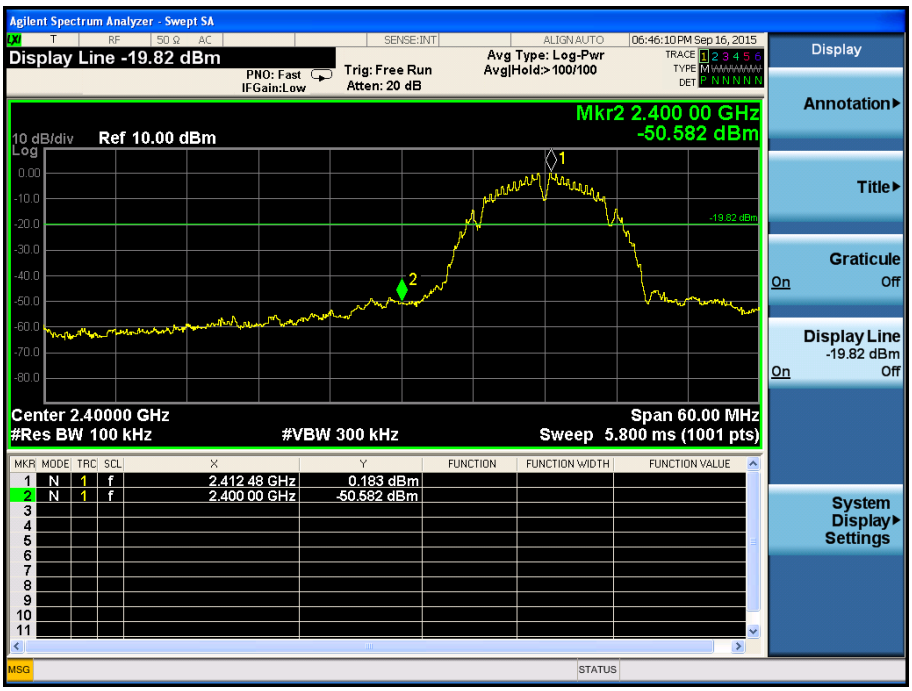
Vertical (Worst case)

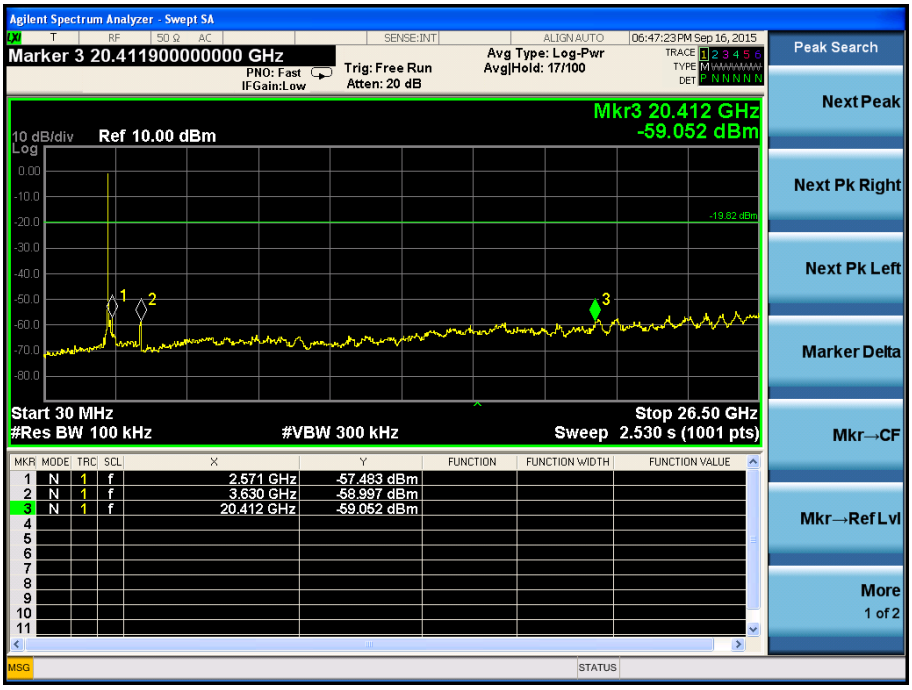


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2463.000	53.87	17.58	71.45	/	/	Average Detector
	2463.250	64.91	17.58	82.49	/	/	Peak Detector
2	2483.500	23.10	17.73	40.83	54.00	-13.17	Average Detector
	2483.500	36.81	17.73	54.54	74.00	-19.46	Peak Detector
3	2500.000	22.36	17.86	40.22	54.00	-13.78	Average Detector
	2500.000	33.95	17.86	51.81	74.00	-22.19	Peak Detector

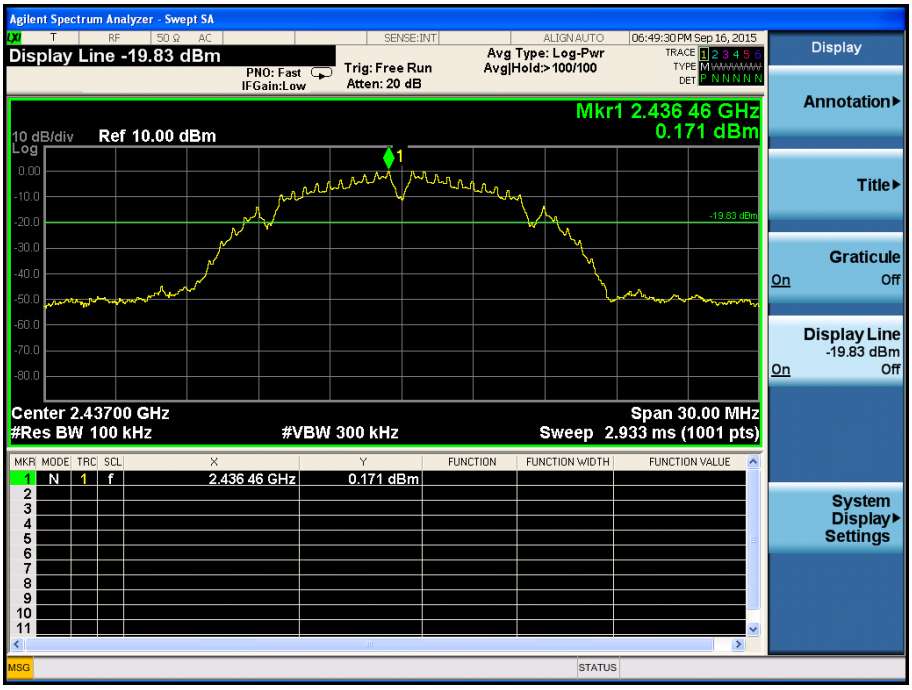
802.11b Bandedge(Conducted)

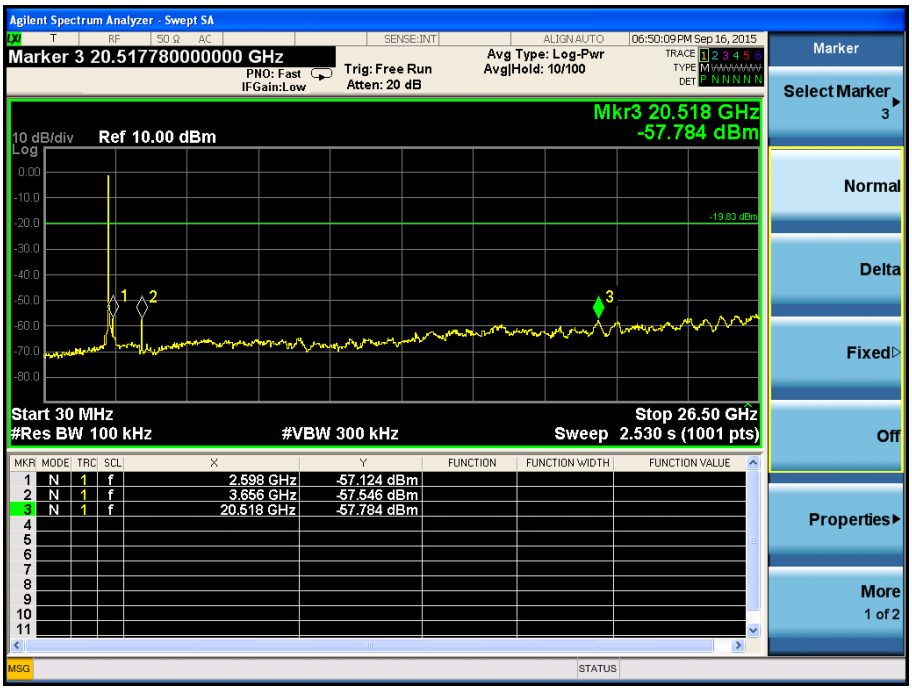
Low Channel



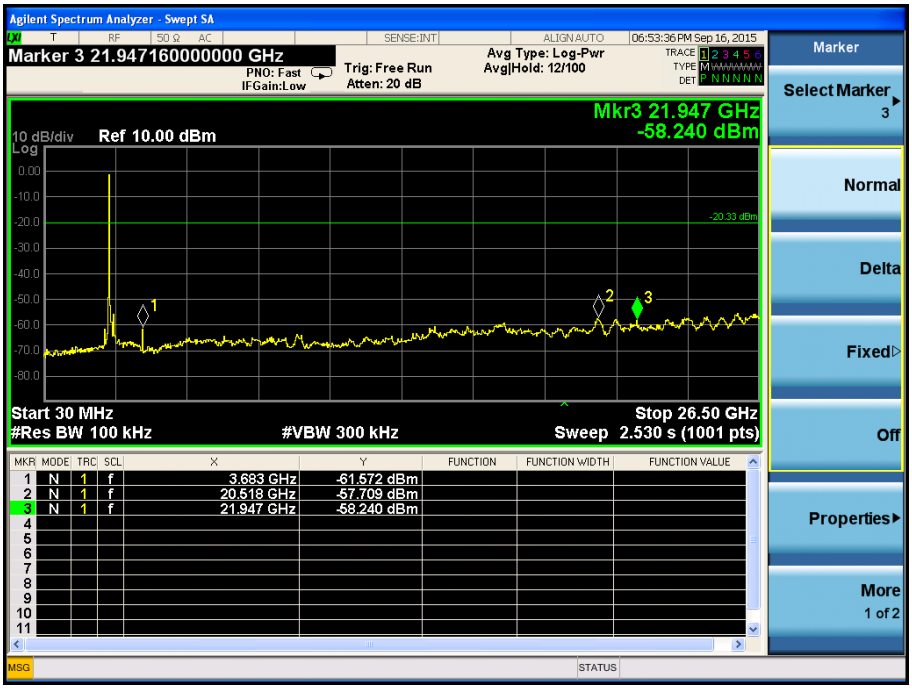


Middle Channel



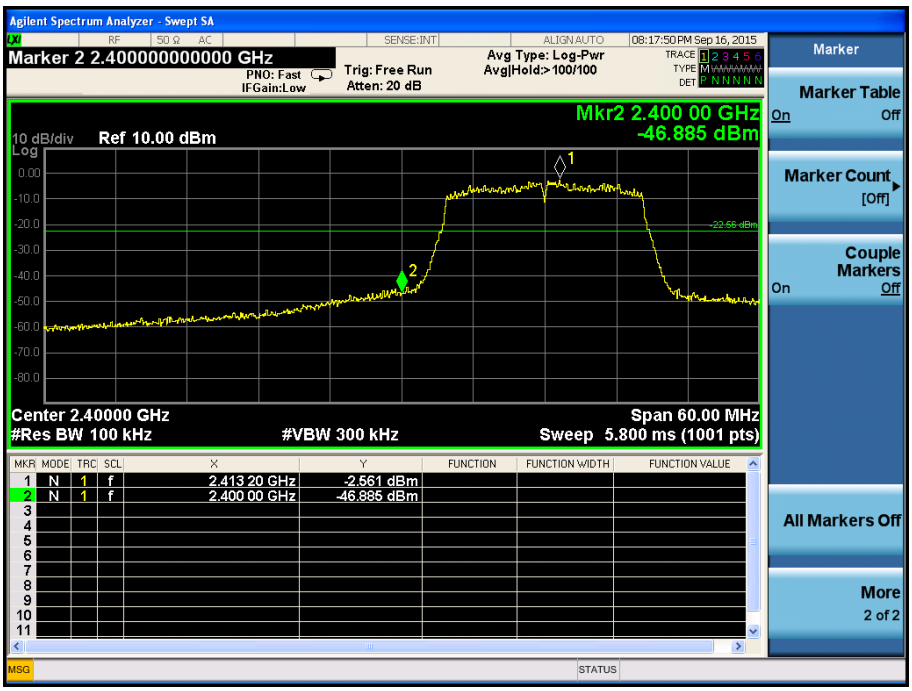


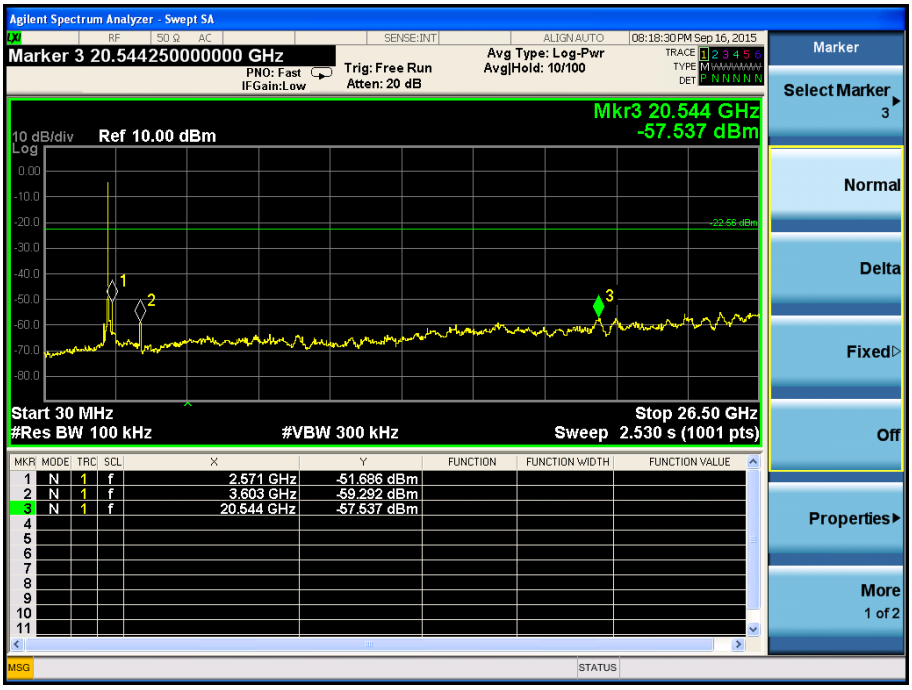
High Channel



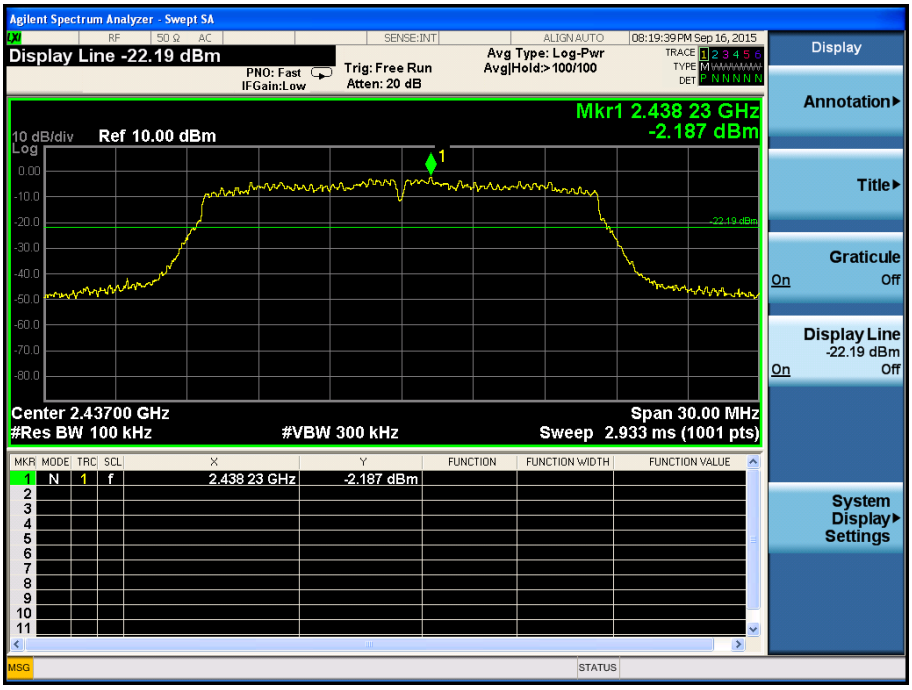
802.11g Bandedge (Conducted)

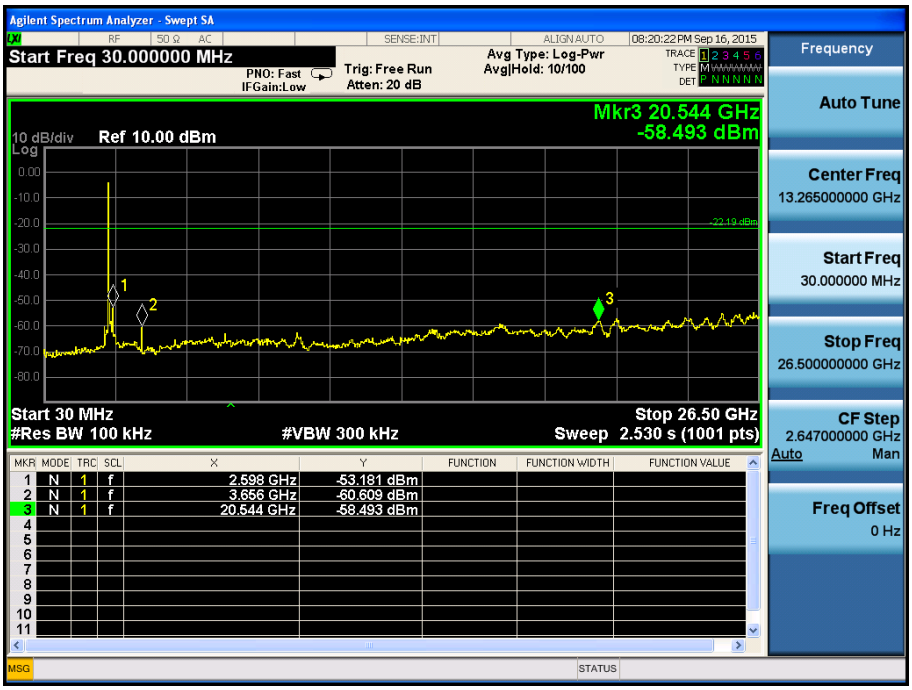
Low Channel



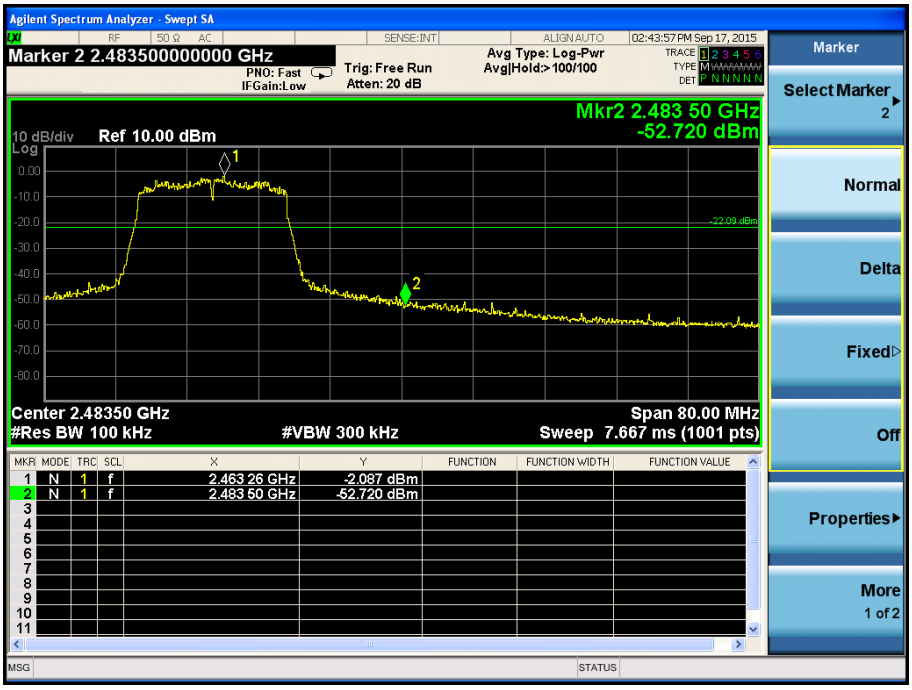


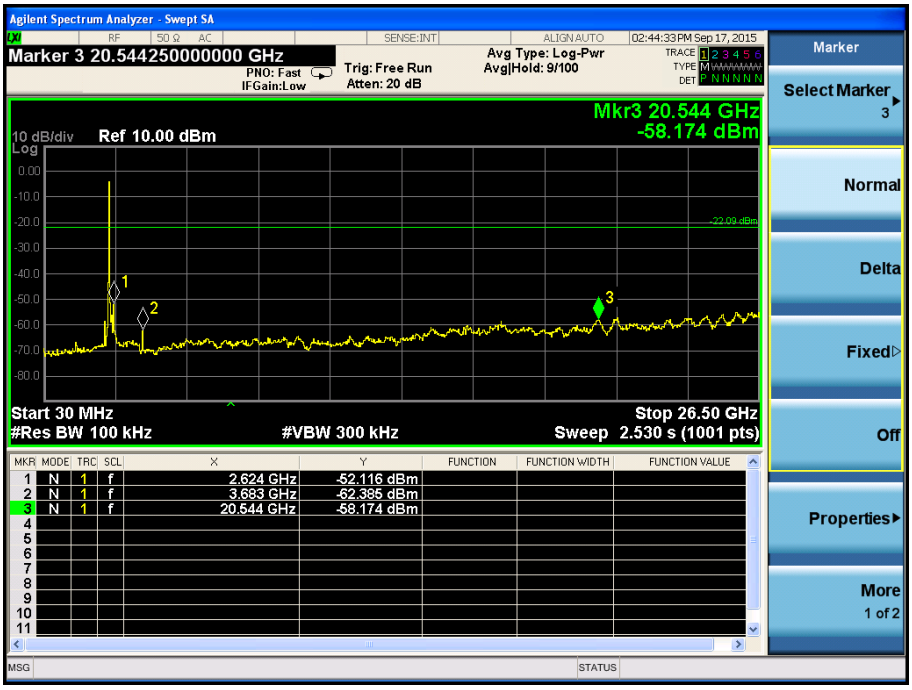
Middle Channel





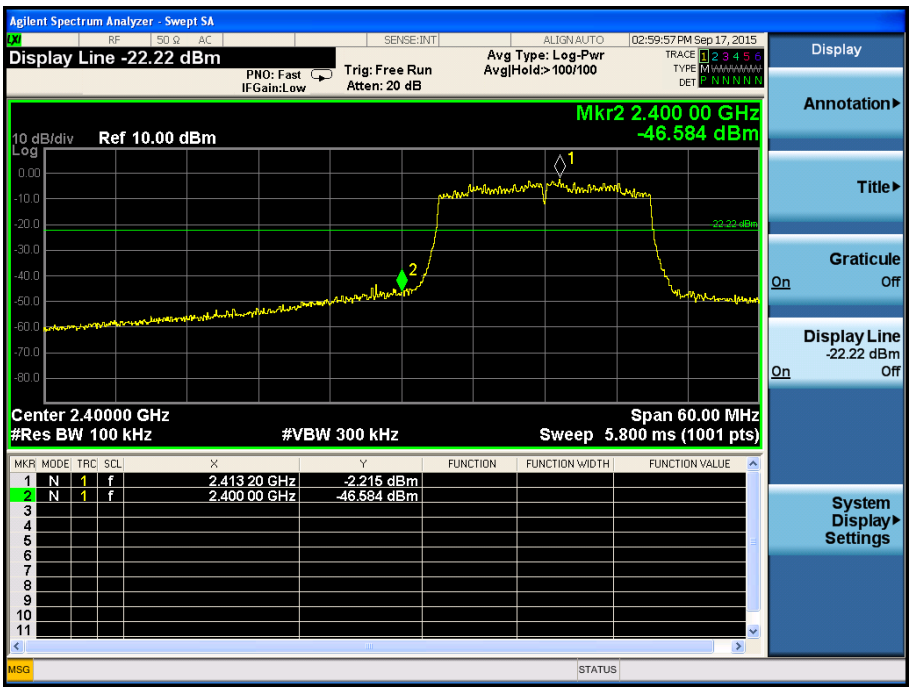
High Channel

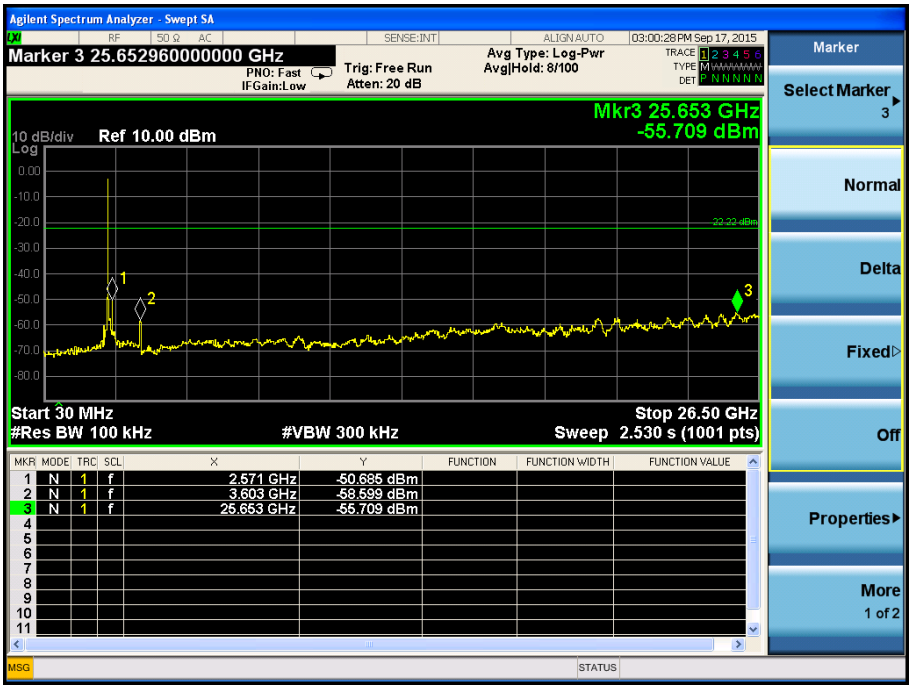




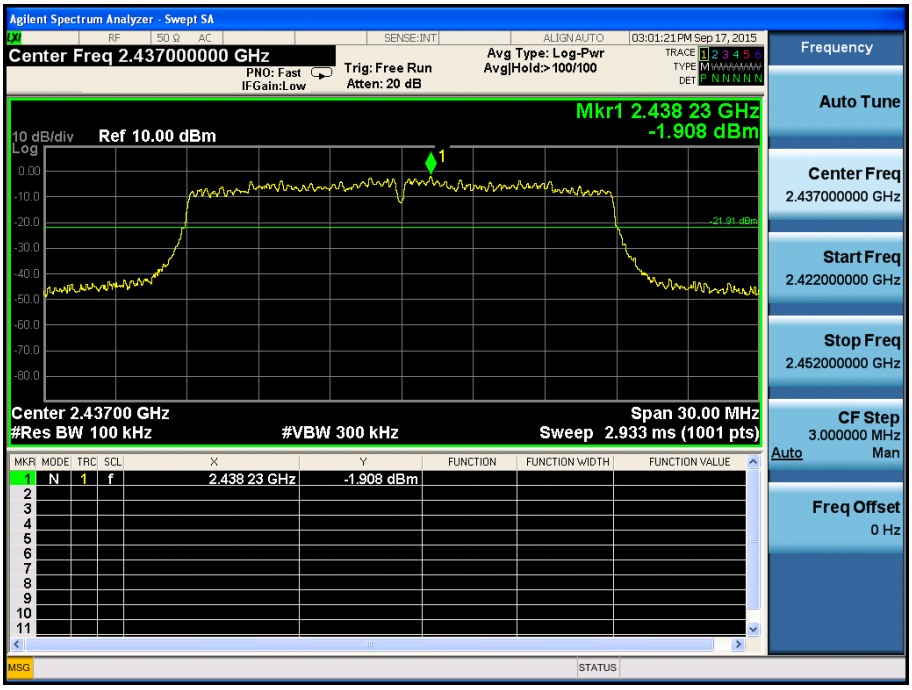
11n-HT20 Bandedge (Conducted)

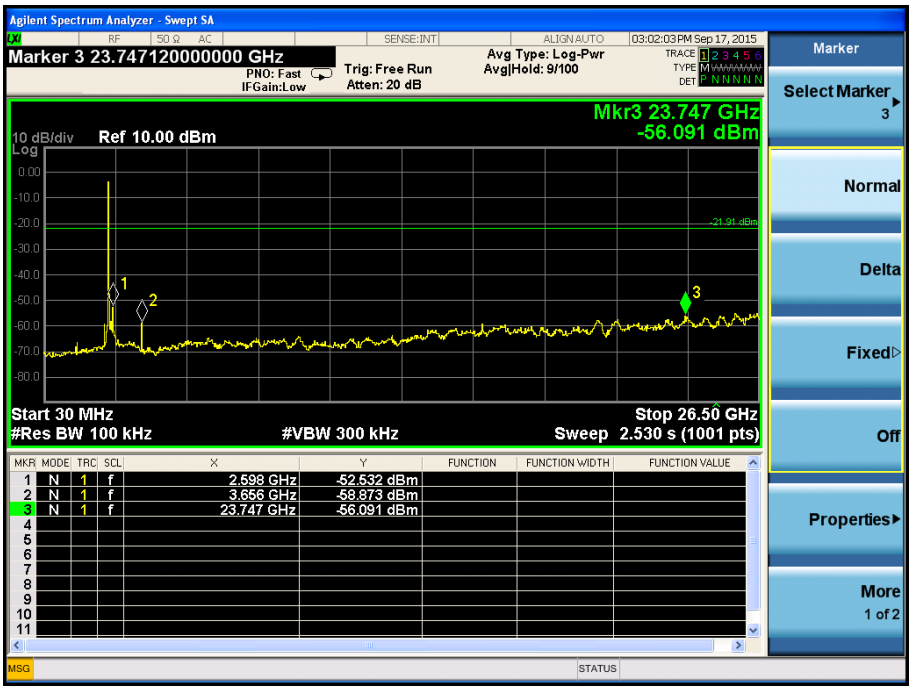
Low Channel



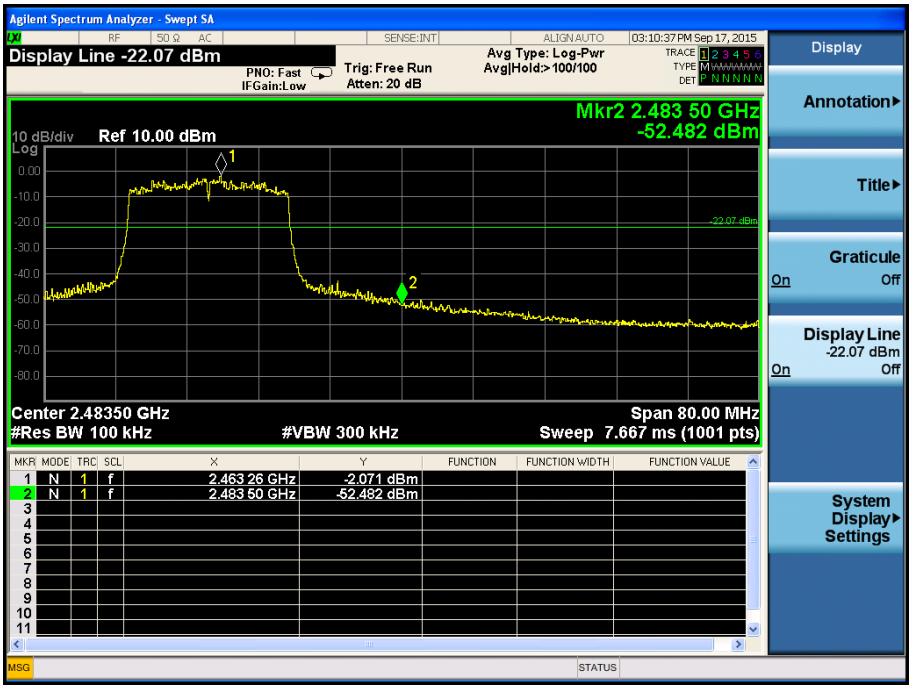


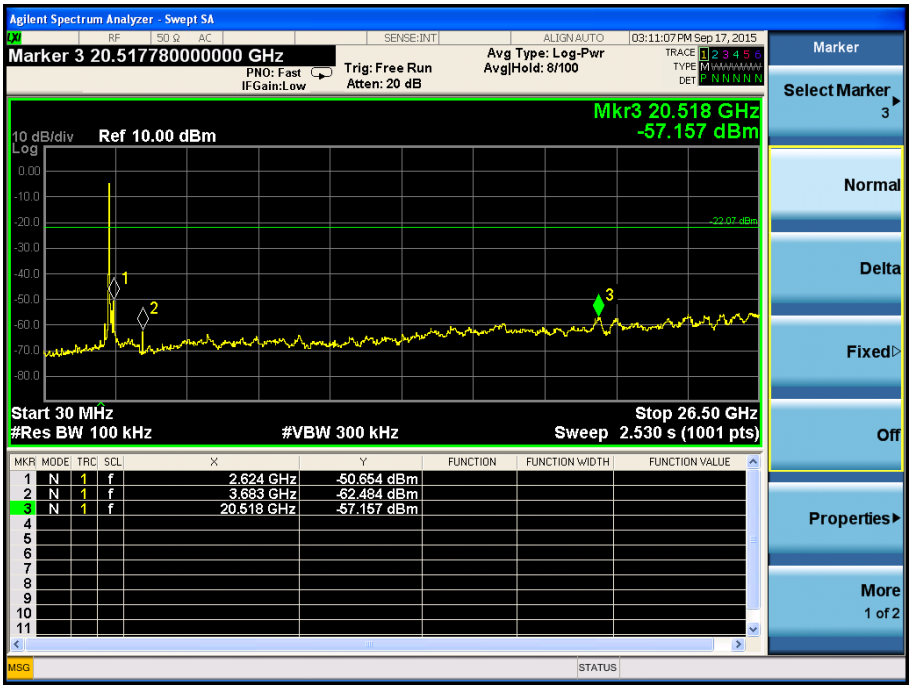
Middle Channel





High Channel

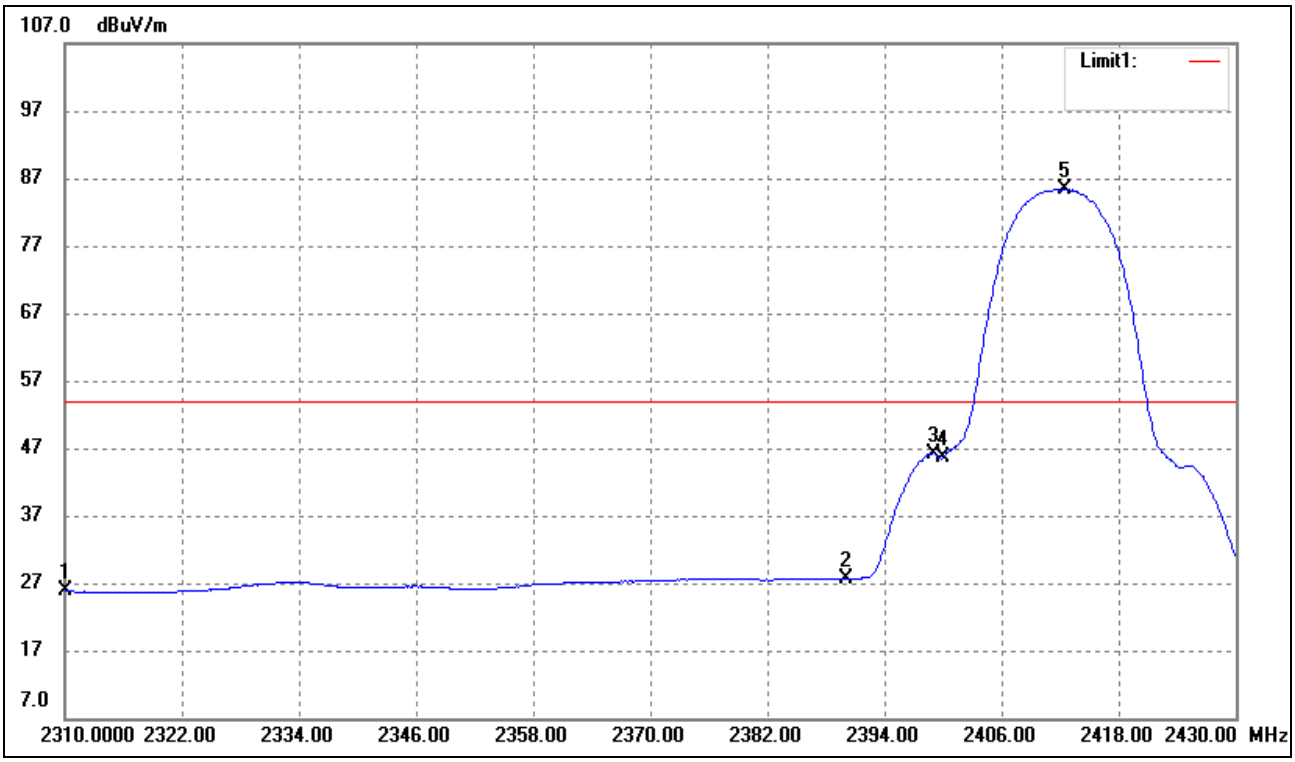




Antenna 2

802.11b-Lowest Bandedge

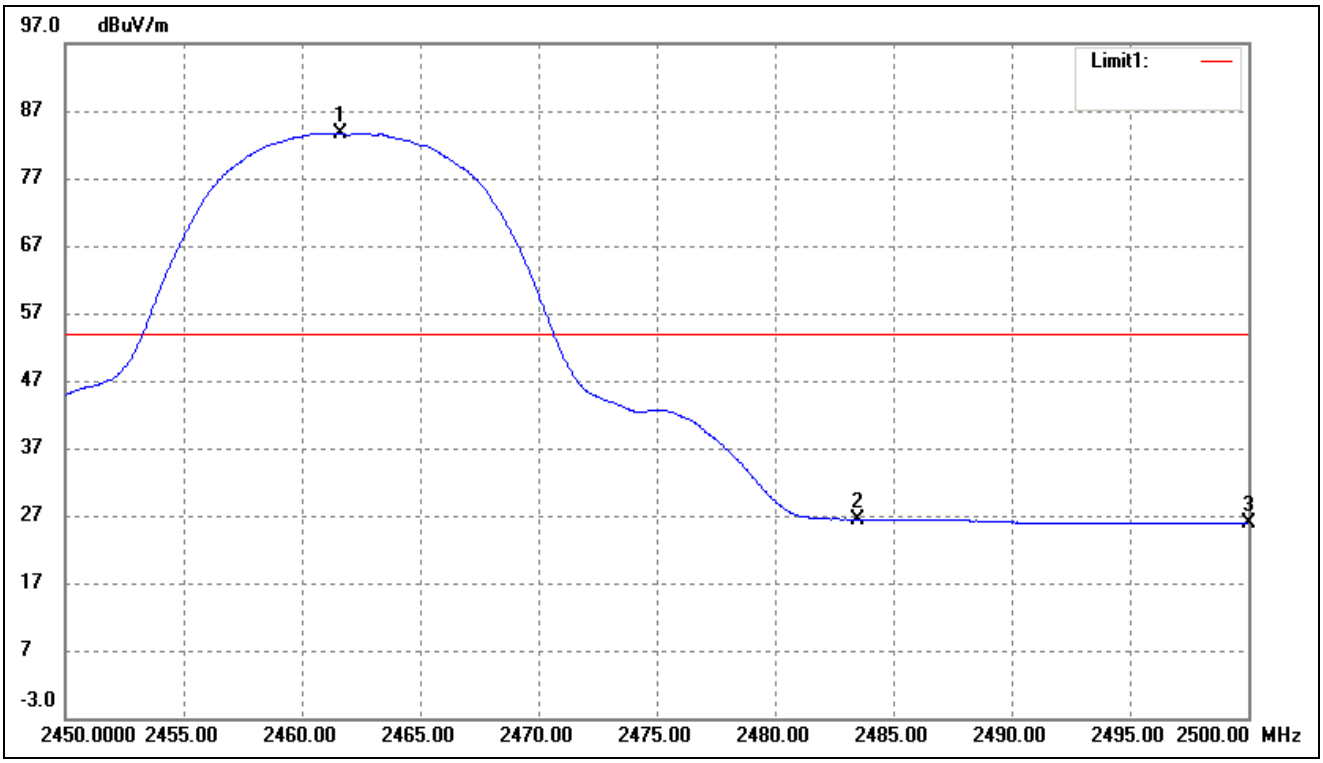
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	29.50	-3.71	25.79	54.00	-28.21	Average Detector
	2310.000	42.81	-3.71	39.10	74.00	-34.90	Peak Detector
2	2390.000	31.27	-3.54	27.73	54.00	-26.27	Average Detector
	2390.000	44.12	-3.54	40.58	74.00	-33.42	Peak Detector
3	2399.040	49.76	-3.51	46.25	54.00	-7.75	Average Detector
4	2400.000	49.20	-3.51	45.69	Delta =39.65dBc		Average Detector
5	2412.480	88.82	-3.48	85.34			Average Detector

802.11b-Highest Bandedge

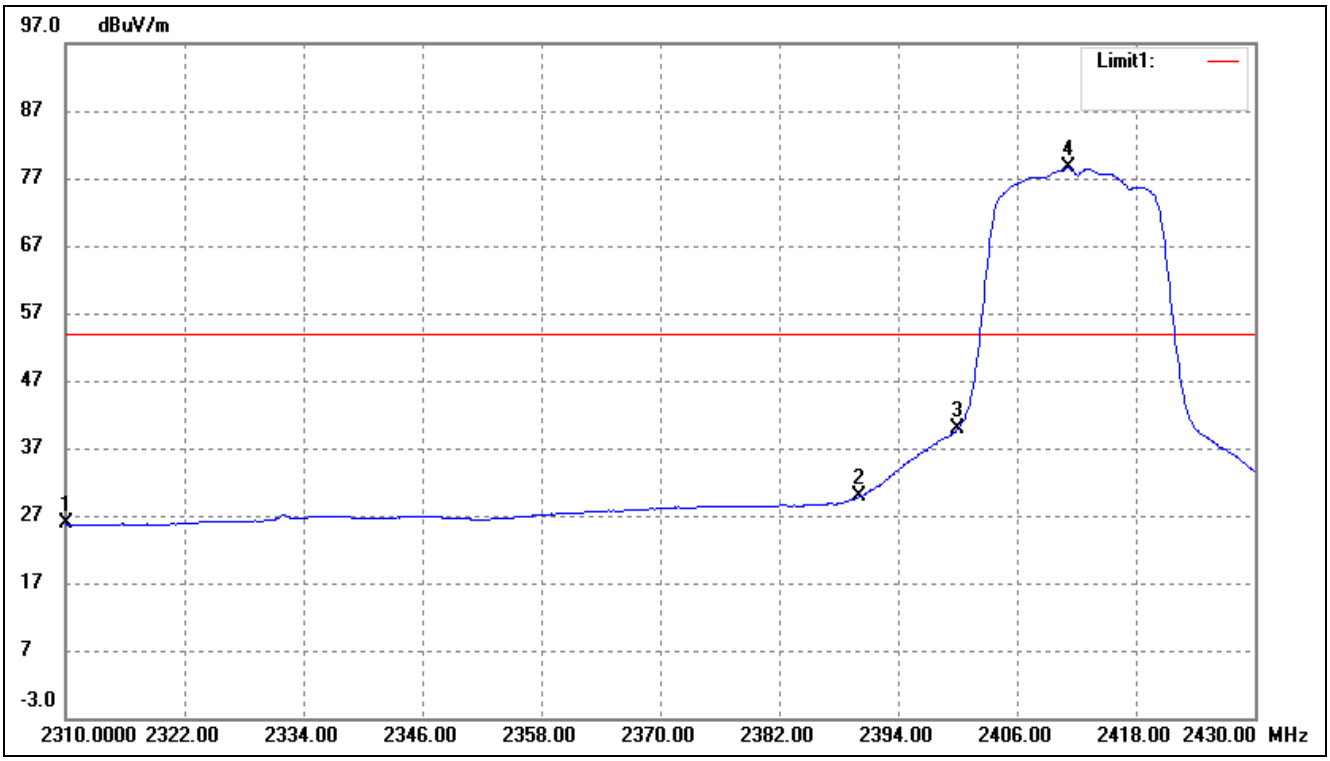
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)	
1	2461.600	87.03	-3.37	83.66	/	/	Average Detector
	2463.300	96.02	-3.36	92.66	/	/	Peak Detector
2	2483.500	29.76	-3.33	26.43	54.00	-27.57	Average Detector
	2483.500	42.04	-3.33	38.71	74.00	-35.29	Peak Detector
3	2500.000	29.17	-3.28	25.89	54.00	-28.11	Average Detector
	2500.000	41.43	-3.28	38.15	74.00	-35.85	Peak Detector

802.11g-Lowest Bandedge

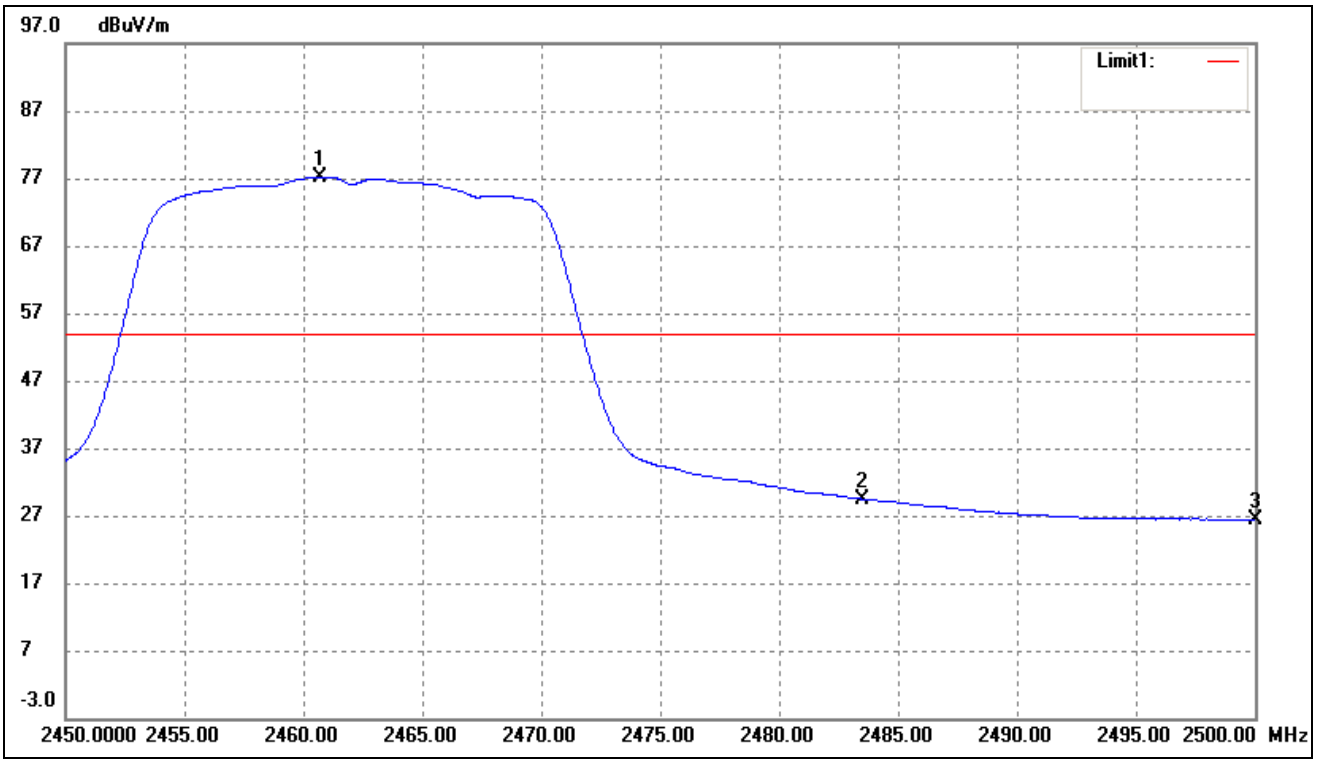
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	29.51	-3.71	25.80	54.00	-28.20	Average Detector
	2310.000	41.73	-3.71	38.02	74.00	-35.98	Peak Detector
2	2390.000	33.32	-3.54	29.78	54.00	-24.22	Average Detector
	2390.000	47.51	-3.54	43.97	74.00	-30.03	Peak Detector
3	2400.000	43.36	-3.51	39.85	Delta =38.69dBc		Average Detector
4	2411.160	82.02	-3.48	78.54			Average Detector

802.11g-Highest Bandedge

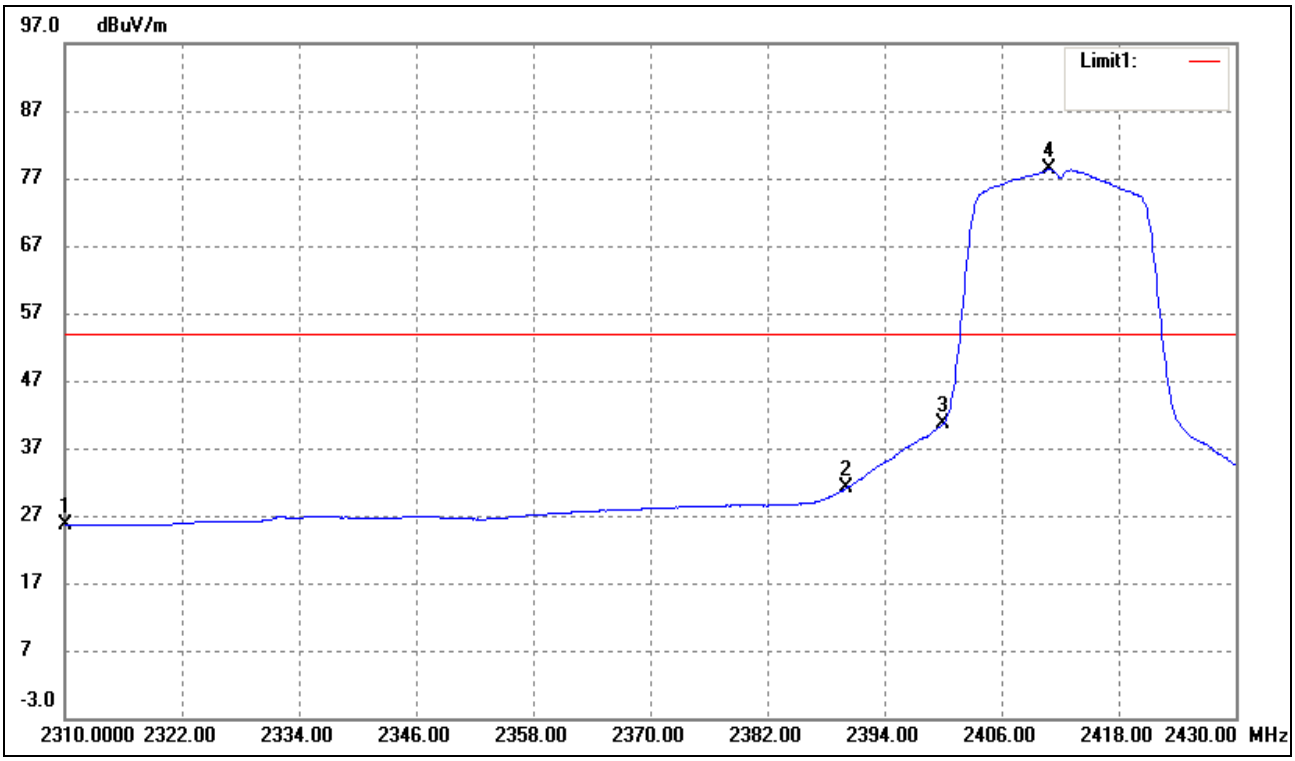
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2460.700	80.60	-3.37	77.23	/	/	Average Detector
	2463.450	91.85	-3.36	88.49	/	/	Peak Detector
2	2483.500	32.80	-3.33	29.47	54.00	-24.53	Average Detector
	2483.500	51.84	-3.33	48.51	74.00	-25.49	Peak Detector
3	2500.000	29.60	-3.28	26.32	54.00	-27.68	Average Detector
	2500.000	42.55	-3.28	39.27	74.00	-34.73	Peak Detector

802.11n-HT20-Lowest Bandedge

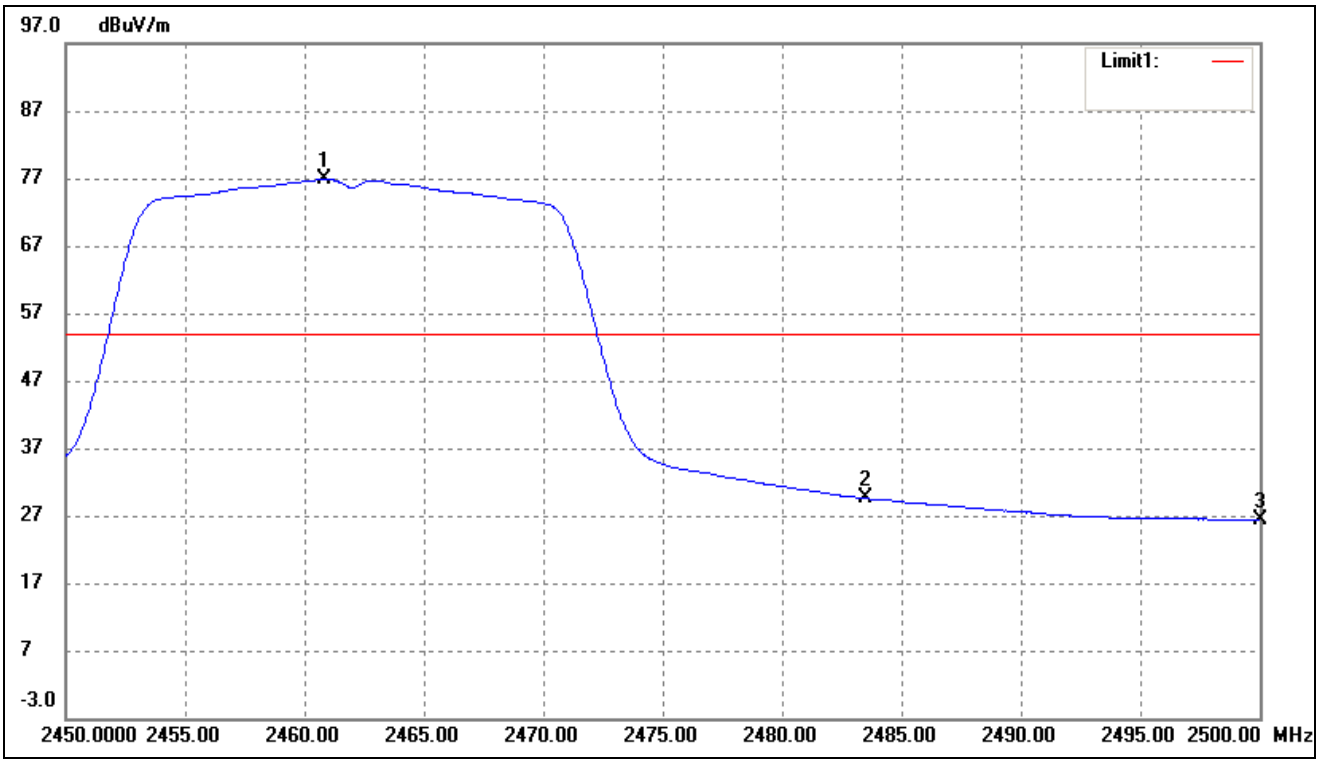
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	29.43	-3.71	25.72	54.00	-28.28	Average Detector
	2310.000	42.34	-3.71	38.63	74.00	-35.37	Peak Detector
2	2390.000	34.55	-3.54	31.01	54.00	-22.99	Average Detector
	2390.000	51.10	-3.54	47.56	74.00	-26.44	Peak Detector
3	2400.000	44.09	-3.51	40.58	Delta =37.75dBc		Average Detector
4	2410.920	81.81	-3.48	78.33			Average Detector

802.11n-HT20-Highest Bandedge

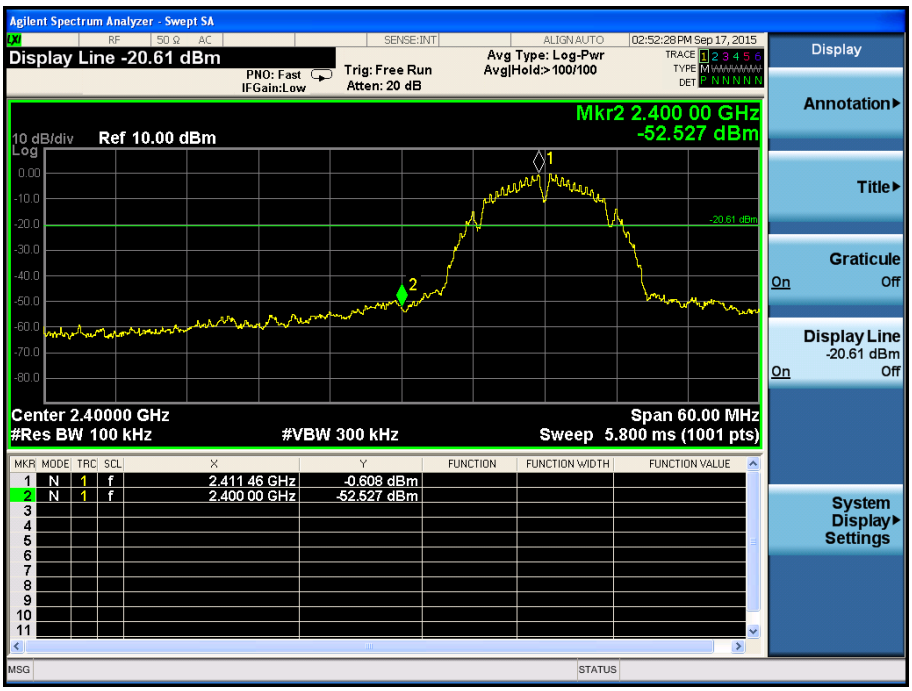
Vertical (Worst case)

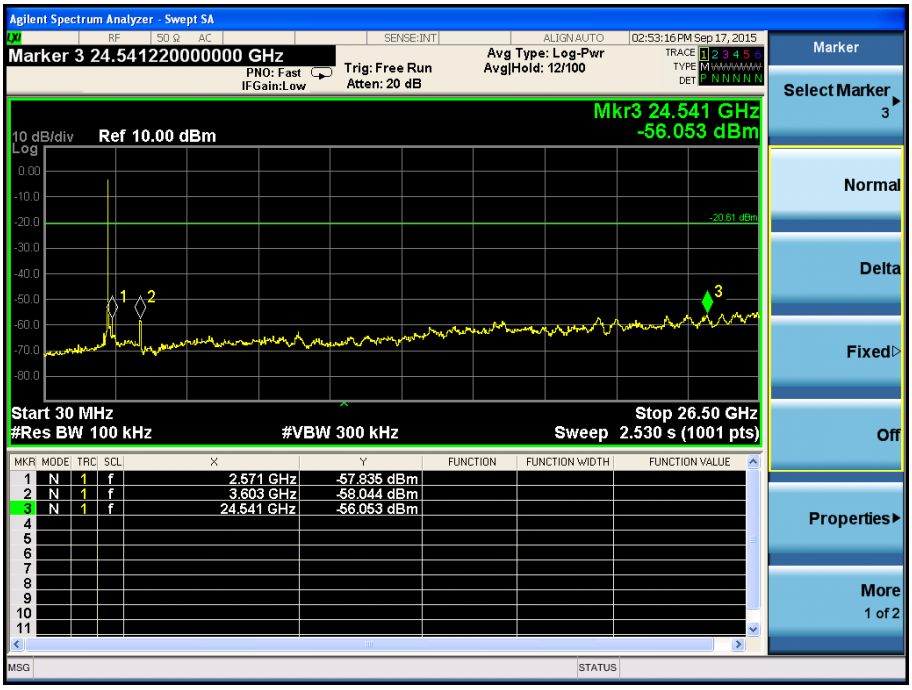


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2460.850	80.29	-3.37	76.92	/	/	Average Detector
	2461.400	91.78	-3.37	88.41	/	/	Peak Detector
2	2483.500	32.91	-3.33	29.58	54.00	-24.42	Average Detector
	2483.500	49.88	-3.33	46.55	74.00	-27.45	Peak Detector
3	2500.000	29.63	-3.28	26.35	54.00	-27.65	Average Detector
	2500.000	41.59	-3.28	38.31	74.00	-35.69	Peak Detector

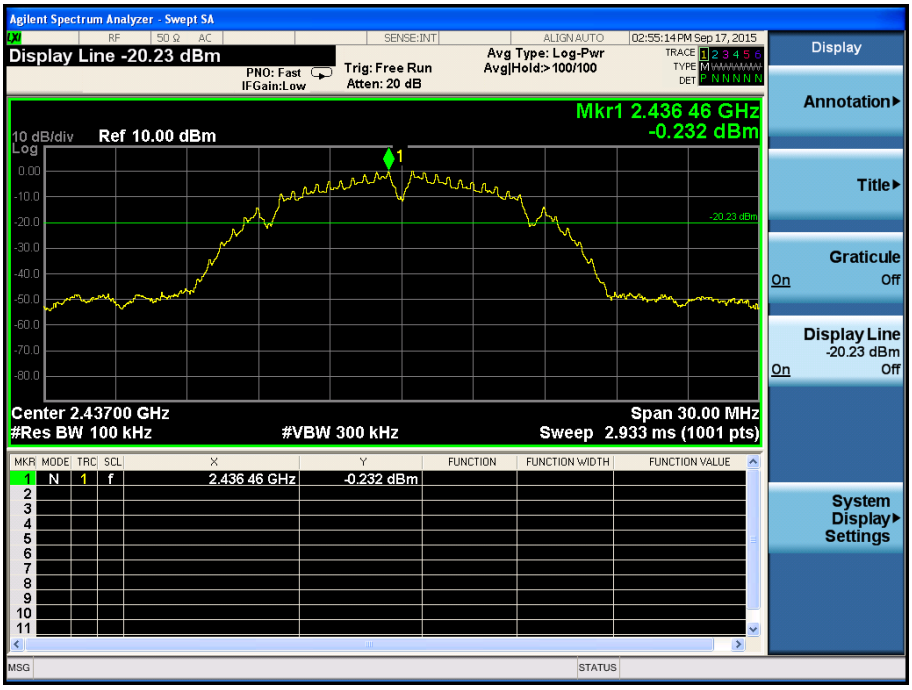
802.11b Bandedge(Conducted)

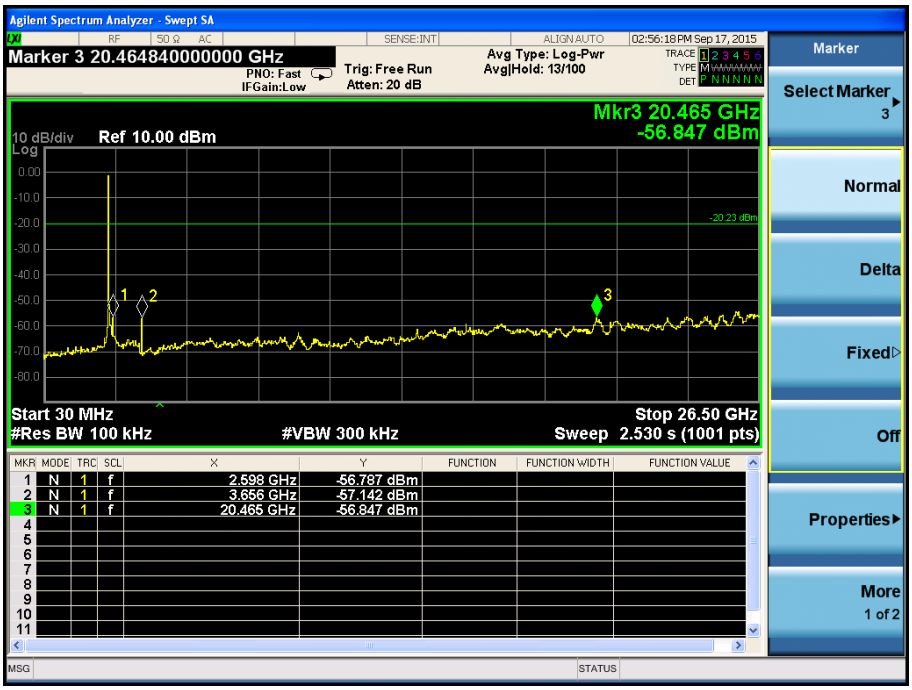
Low Channel



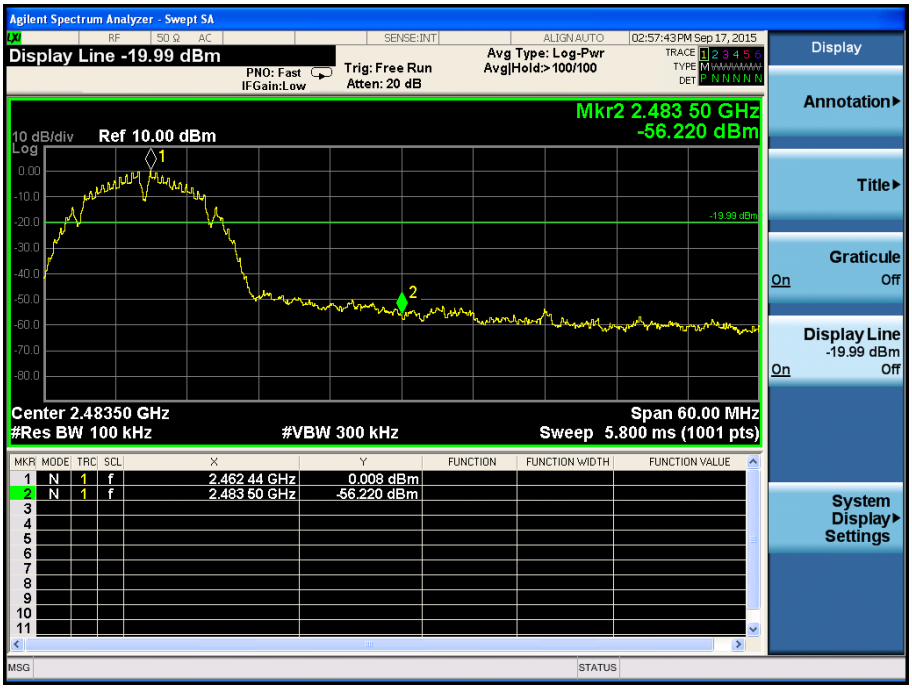


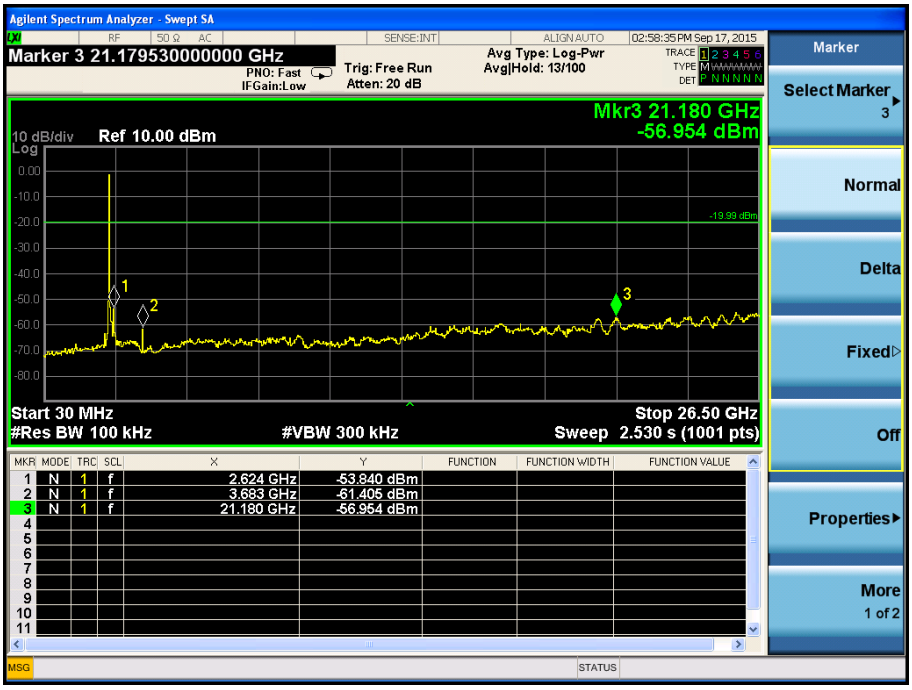
Middle Channel



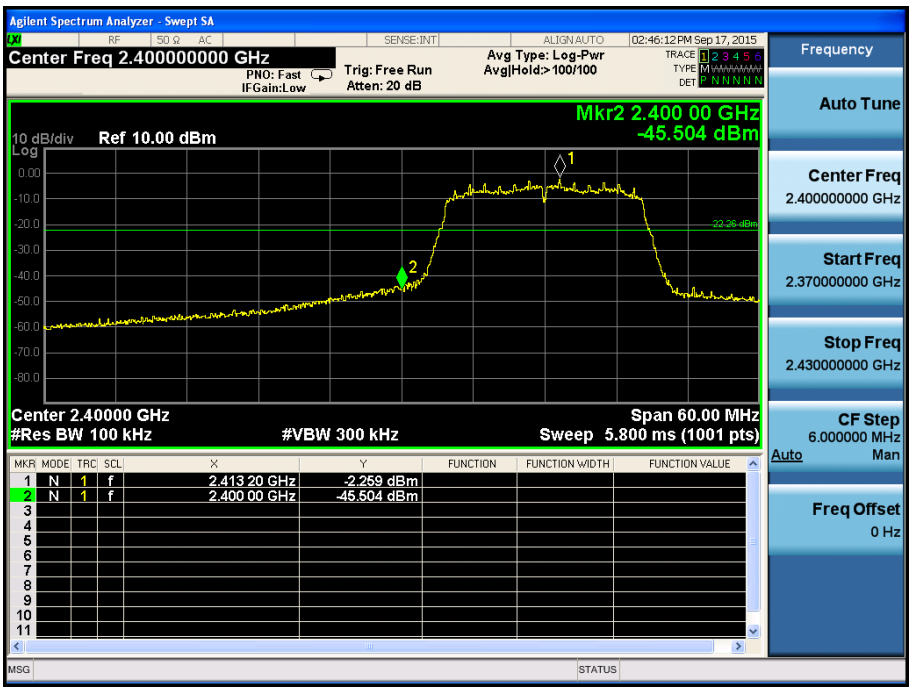


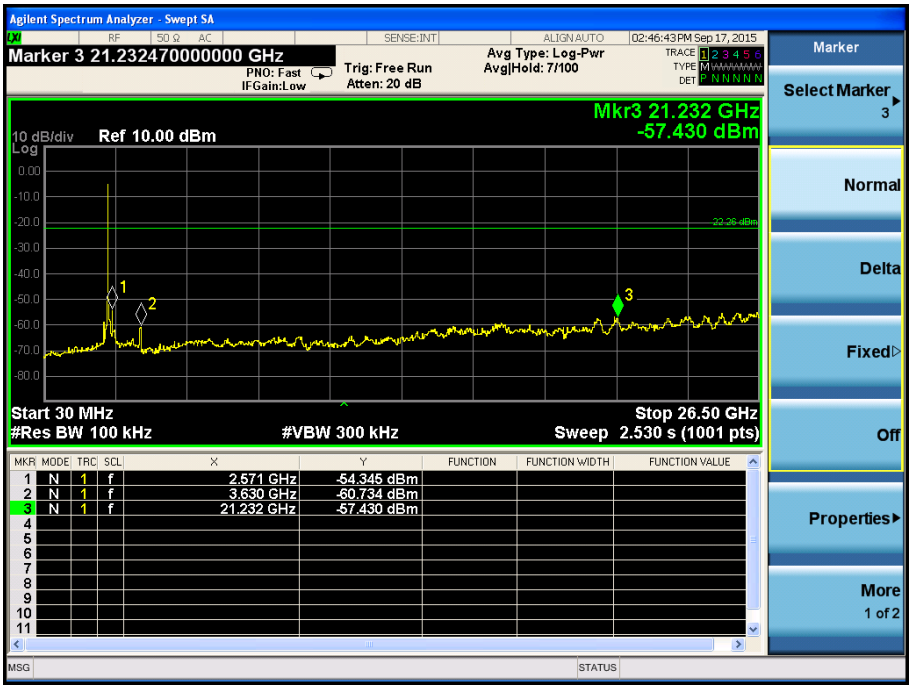
High Channel



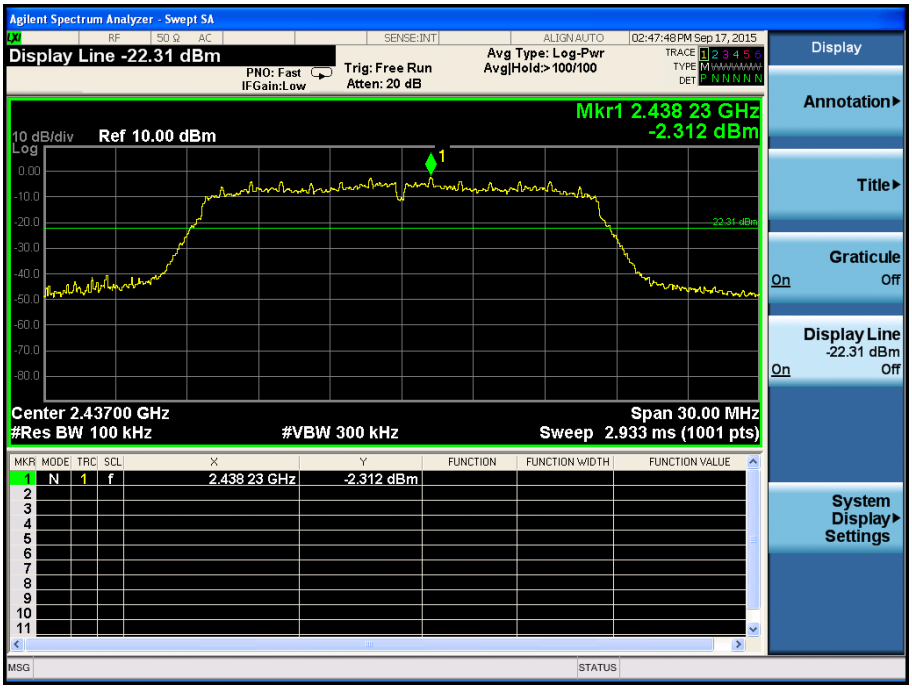


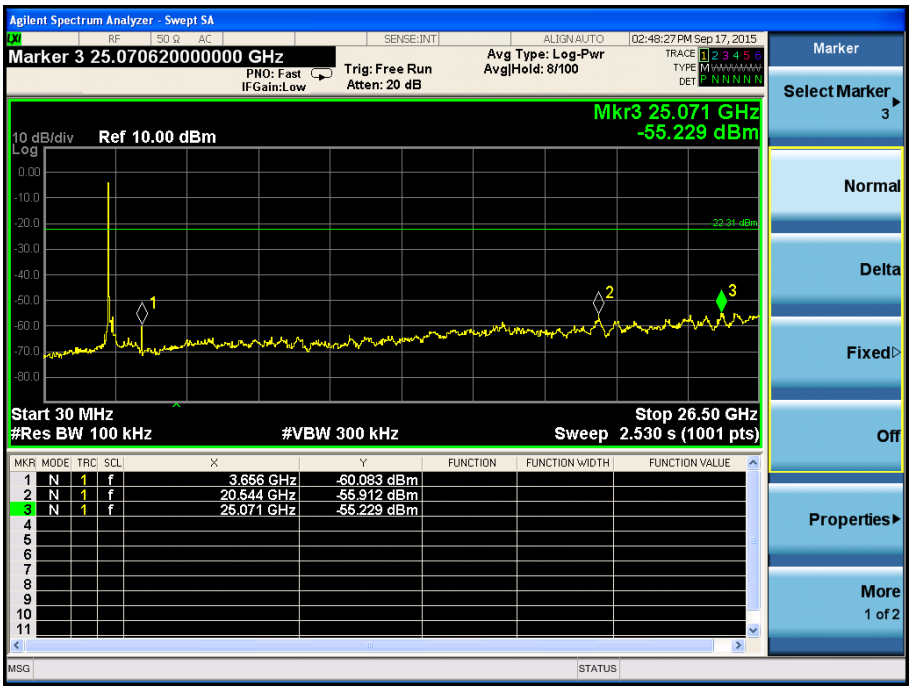
802.11g Bandedge (Conducted)
Low Channel



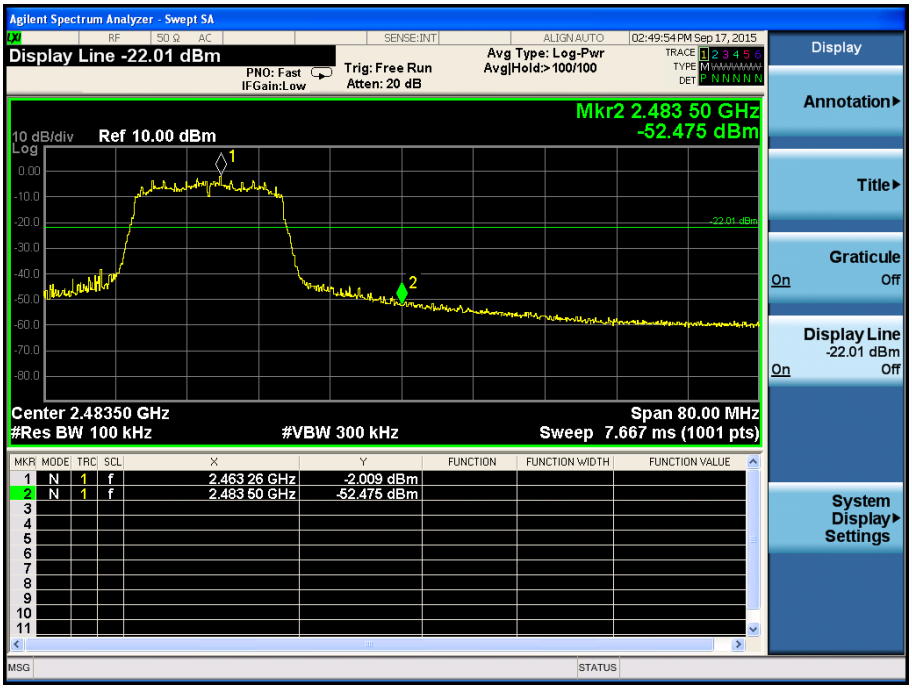


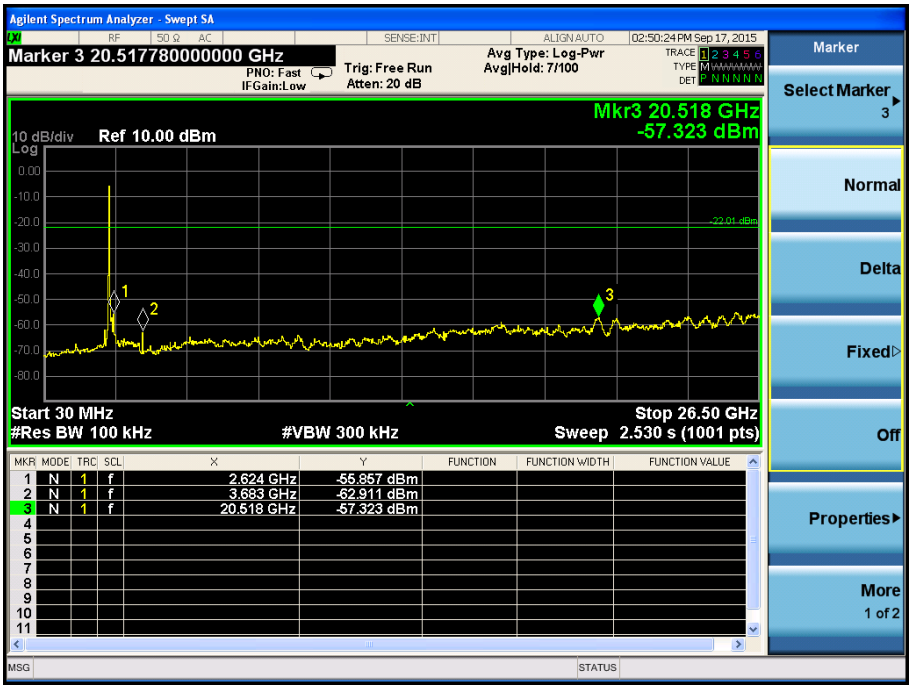
Middle Channel





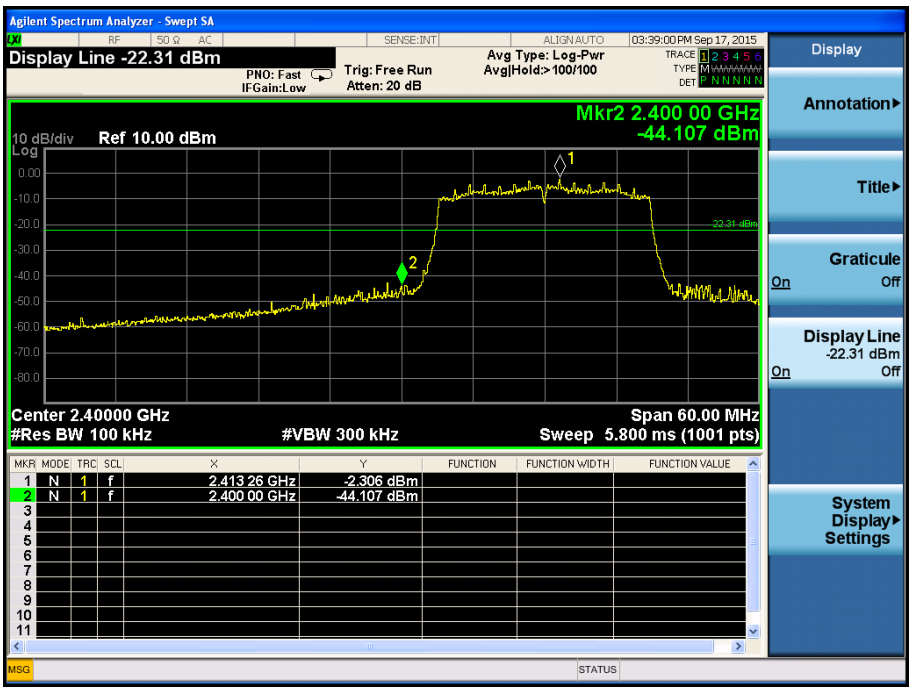
High Channel

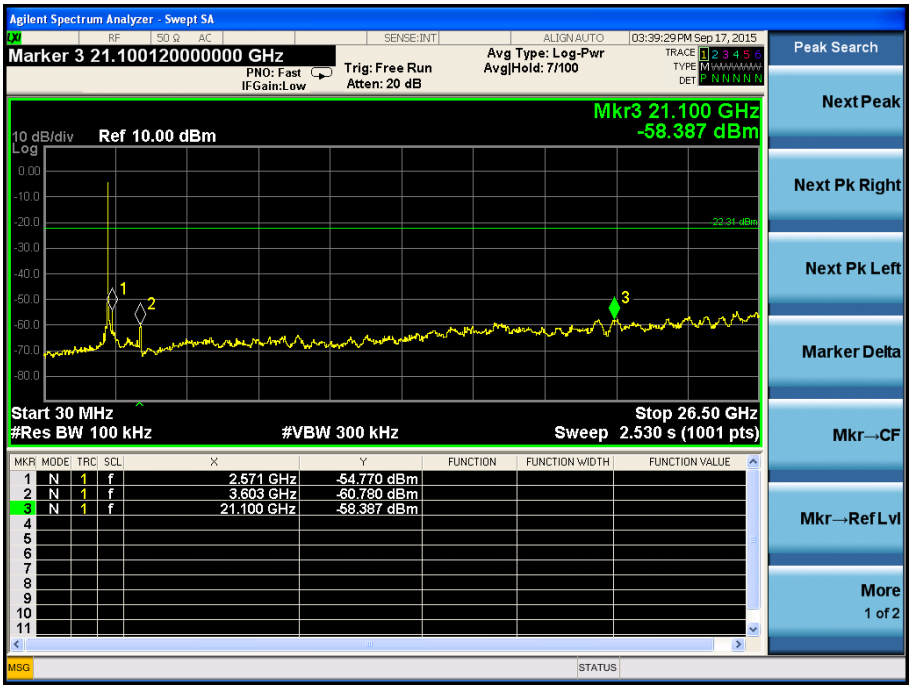




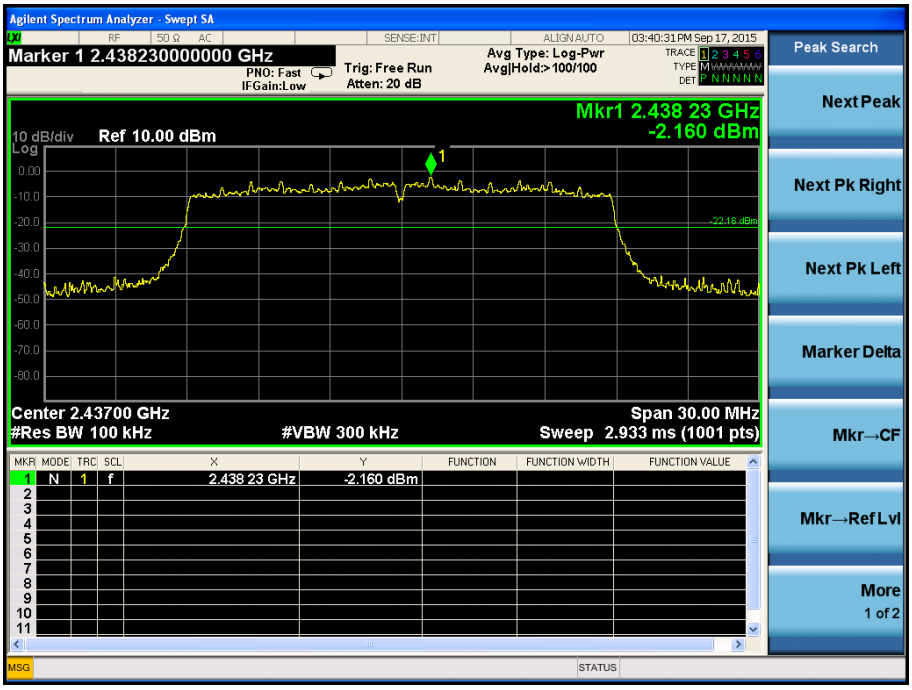
11n-HT20 Bandedge (Conducted)

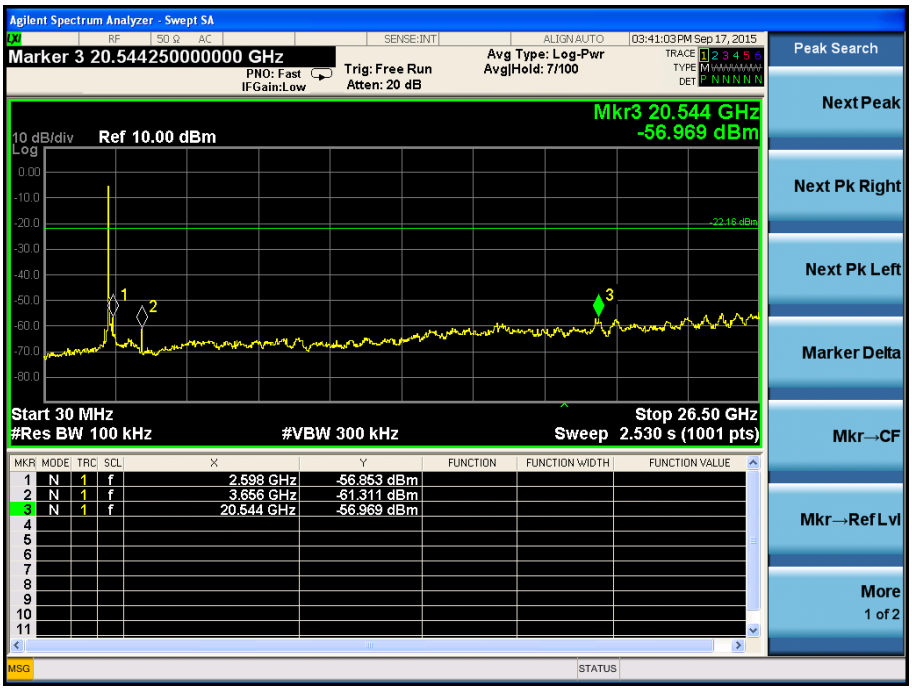
Low Channel



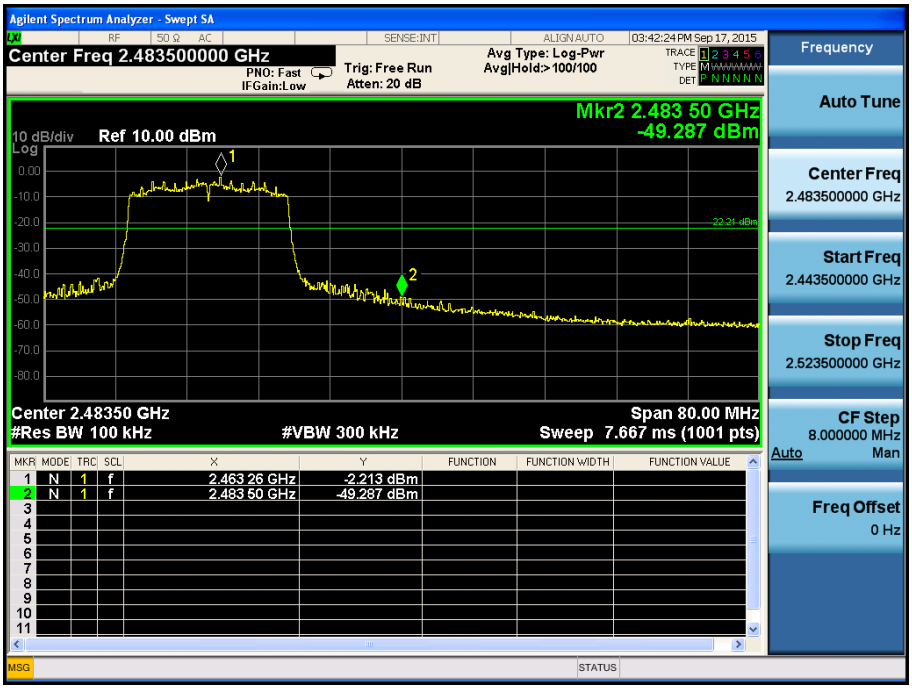


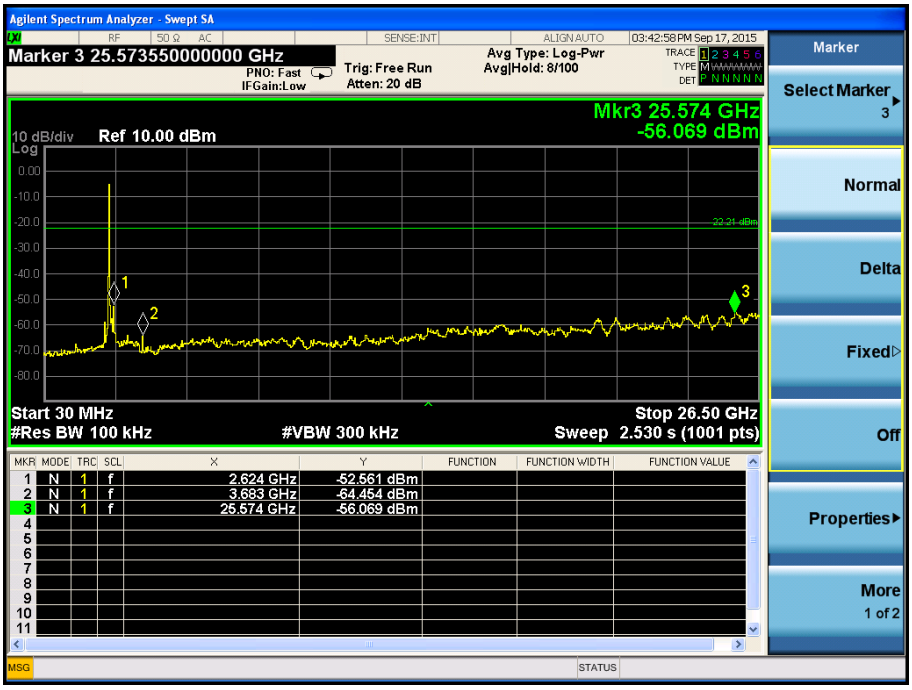
Middle Channel





High Channel





10. Conducted Emissions

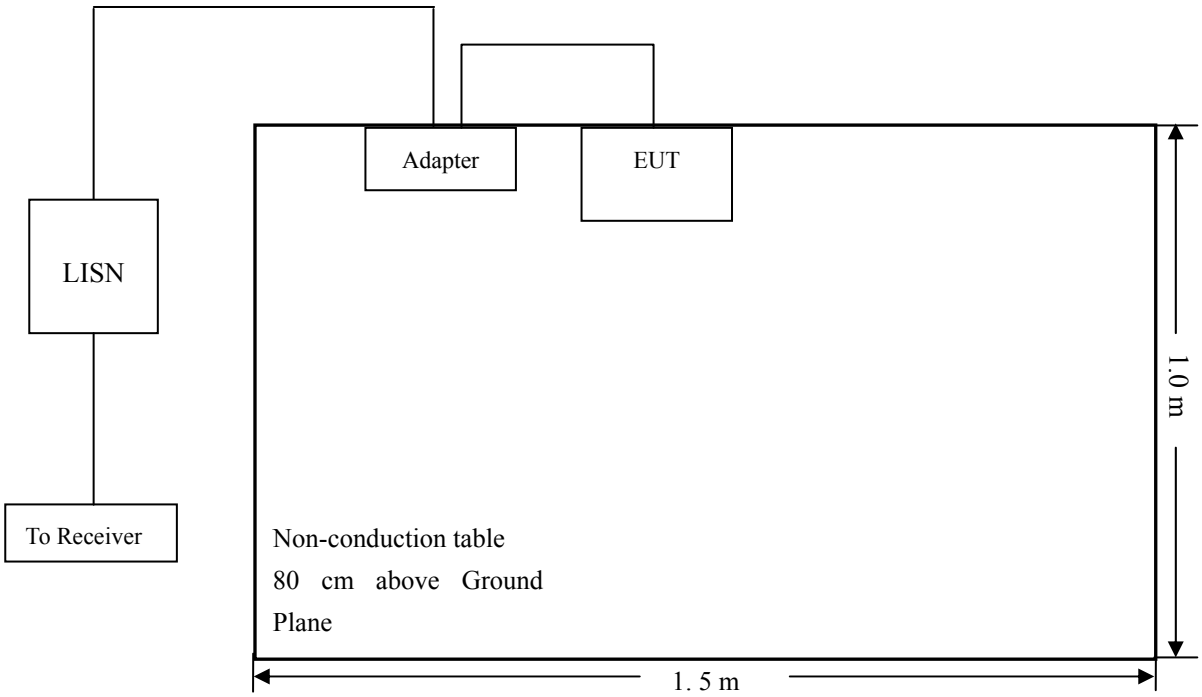
10.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is ± 2.88 dB.

10.2 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.

10.3 Basic Test Setup Block Diagram



10.4 Environmental Conditions

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

10.5 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

10.6 Summary of Test Results/Plots

According to the data in section 10.7, the EUT complied with the FCC Part 15.207 Conducted margin for this device, with the *worst* margin reading of:

-11.44 dB at 0.1940 MHz in the **Line** mode**, peak** detector, **0.15-30MHz**

10.7 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

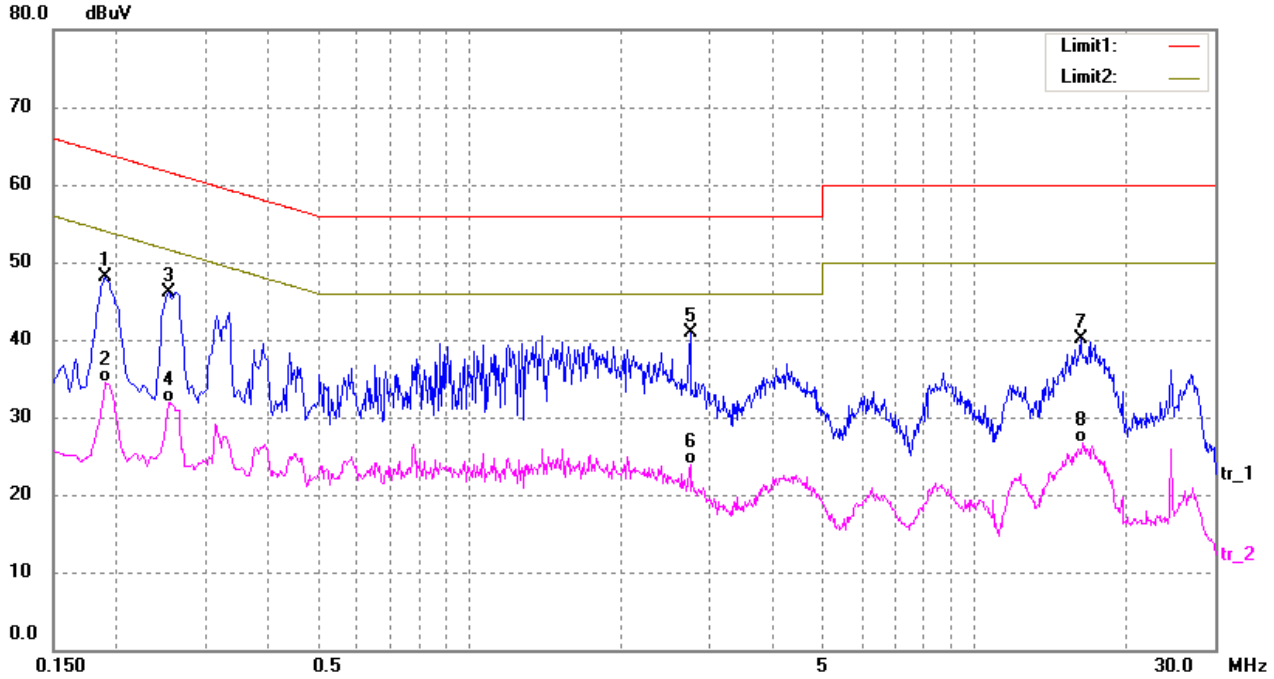
EUT: *Tablet PC*

Tested Model: *360M*

Operating Condition: *Transmitting(Wi-Fi)*

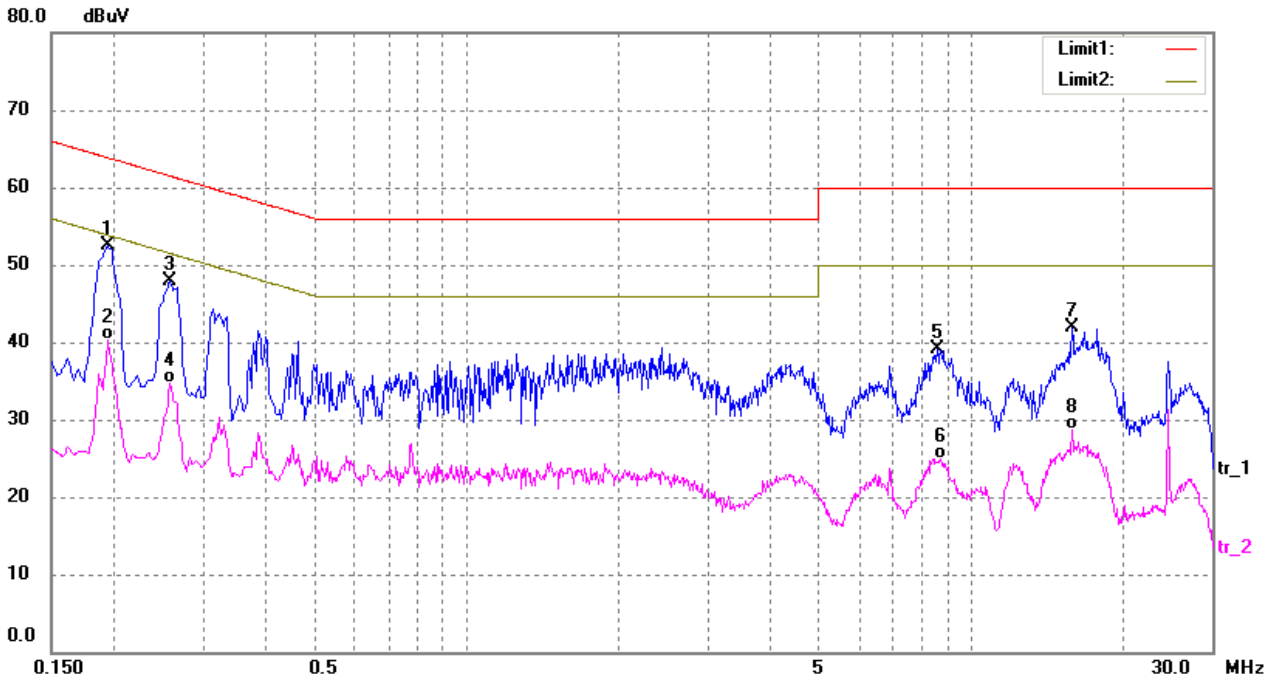
Comment: *AC 120V/60Hz; DC 12V/2A*

Test Specification: *Neutral*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1	0.1900	35.59	12.50	48.09	64.04	-15.95	peak
2	0.1900	21.94	12.50	34.44	54.04	-19.60	AVG
3	0.2540	33.67	12.50	46.17	61.63	-15.46	peak
4	0.2540	19.32	12.50	31.82	51.63	-19.81	AVG
5*	2.7380	27.96	13.00	40.96	56.00	-15.04	peak
6	2.7380	10.91	13.00	23.91	46.00	-22.09	AVG
7	16.3020	28.91	11.26	40.17	60.00	-19.83	peak
8	16.4420	15.48	11.29	26.77	50.00	-23.23	AVG

Test Specification: *Line*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.1940	39.92	12.50	52.42	63.86	-11.44	peak
2	0.1940	27.85	12.50	40.35	53.86	-13.51	AVG
3	0.2580	35.32	12.50	47.82	61.50	-13.68	peak
4	0.2580	22.13	12.50	34.63	51.50	-16.87	AVG
5	8.5700	27.51	11.57	39.08	60.00	-20.92	peak
6	8.6980	13.39	11.52	24.91	50.00	-25.09	AVG
7	15.8220	30.65	11.16	41.81	60.00	-18.19	peak
8	15.8220	17.59	11.16	28.75	50.00	-21.25	AVG

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