

# FCC Part 15C Measurement and Test Report

For

PCD, LLC.

1500 Tradeport Drive, Suite A. Orlando, FL.

**FCC ID: 2ALJJPL5003**

<b>FCC Rule(s):</b>	<u>FCC Part 15C</u>
<b>Product Description:</b>	<u>Monkey II LTE</u>
<b>Tested Model:</b>	<u>PL5003</u>
<b>Report No.:</b>	<u>STR17088335I-3</u>
<b>Tested Date:</b>	<u>2017-08-21 to 2017-09-01</u>
<b>Issued Date:</b>	<u>2017-09-01</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: PCD, LLC.  
 Address of applicant: 1500 Tradeport Drive, Suite A. Orlando, FL.

Manufacturer: Guizhou Fortuneship Technology Co., Ltd.  
 Address of manufacturer: 2nd Floor, Factory Building 4, Hi-Tech Industrial Park, Xinpu Economic Development Zone, Xinpu New District, Zunyi City, Guizhou Province, P. R. China

General Description of EUT	
Product Name:	Monkey II LTE
Brand Name:	PCD
Model No.:	PL5003
Adding Model(s):	/
Rated Voltage:	DC 3.8V by Battery
Battery Capacity:	2000mAh
Power Adapter:	Model:DCS67-0501000 Input:100-240V,50/60Hz,0.2A; Output:5.0V,1.0A
<p><i>The EUT Main board support GSM850/900/DCS1800/PCS1900, WCDMA Band 2/5, LTE Band 2/4/5/7 function. It is intended for speech, Multimedia Message Service (MMS) transmission. It is equipped with GPRS class 12 for GSM850/900/DCS1800/PCS1900, GPS, FM, Bluetooth and Wi-Fi functions. For more information see the following datasheet</i></p> <p><i>Note: The test data is gathered from a production sample provided by the manufacturer.</i></p>	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz
RF Output Power:	14.57dBm (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:	1.3dBi

## 1.2 Test Standards

The following report is prepared on behalf of the PCD, LLC. 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.

### **FCC – Registration No.: 260439**

Centre Testing International Group Co., Ltd Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration of Conformity (DOC). The Designation Number is CN1164, and Test Firm Registration Number is 260439.

## 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
Notebook	Lenovo	E10	LR-63C8R

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
USB Cable	1.0	Shielded	Without Ferrite
Earphone	1.2	Unshielded	Without Ferrite

## 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	2017-06-12	2018-06-11
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-12	2018-06-11
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-12	2018-06-11
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-12	2018-06-11
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
N/A	Pre-amplifier	Direction Systems Inc.	N/A	N/A	2017-07-09	2018-07-08
N/A	Pre-amplifier	Direction Systems Inc.	N/A	N/A	2017-07-09	2018-07-08
N/A	Spectrum Analyzer	R&S	FSP40	100416	2017-07-09	2018-07-08
N/A	DRG Horn Antenna	DRG Horn Antenna	N/A	N/A	2017-07-09	2018-07-08

## 2. SUMMARY OF TEST RESULTS

<b>FCC Rules</b>	<b>Description of Test Item</b>	<b>Result</b>
§ 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**

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#### **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**

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### **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 an integral antenna, fulfill the requirement of this section.

## 5. Power Spectral Density

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### 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

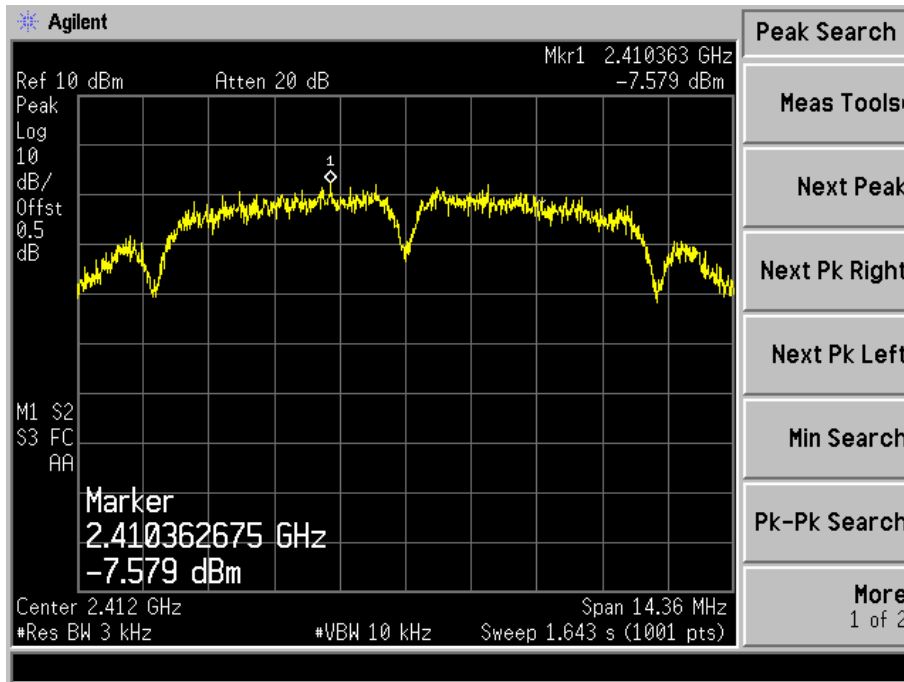
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

## 5.4 Summary of Test Results/Plots

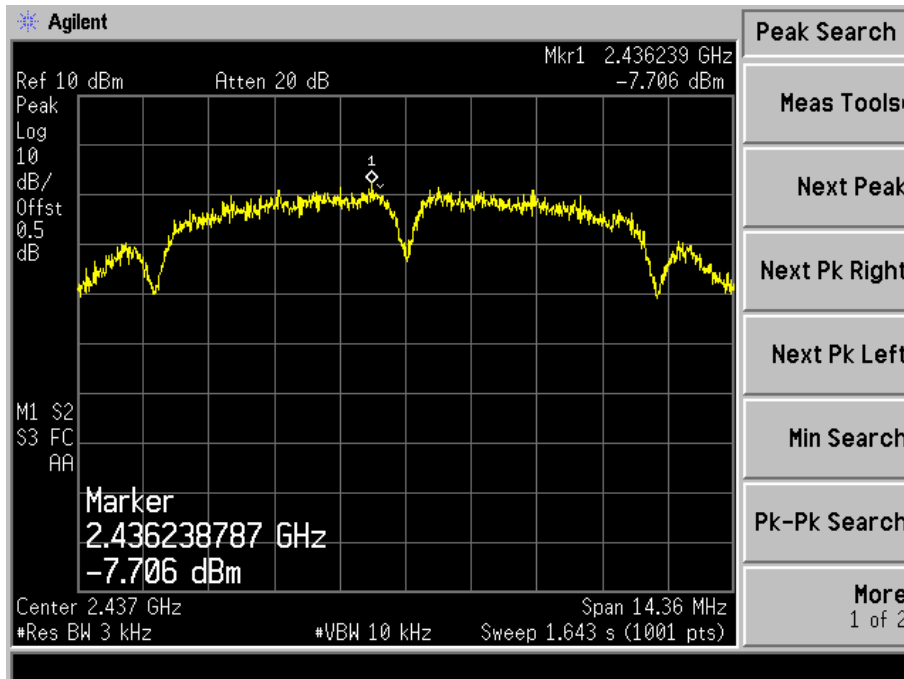
Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
802.11b	2412	-7.579	8
	2437	-7.706	8
	2462	-9.473	8
802.11g	2412	-12.79	8
	2437	-11.98	8
	2462	-12.89	8
802.11n HT20	2412	-14.02	8
	2437	-12.79	8
	2462	-12.03	8
802.11n HT40	2422	-14.88	8
	2437	-15.85	8
	2452	-15.97	8

Please refer to the following test plots:

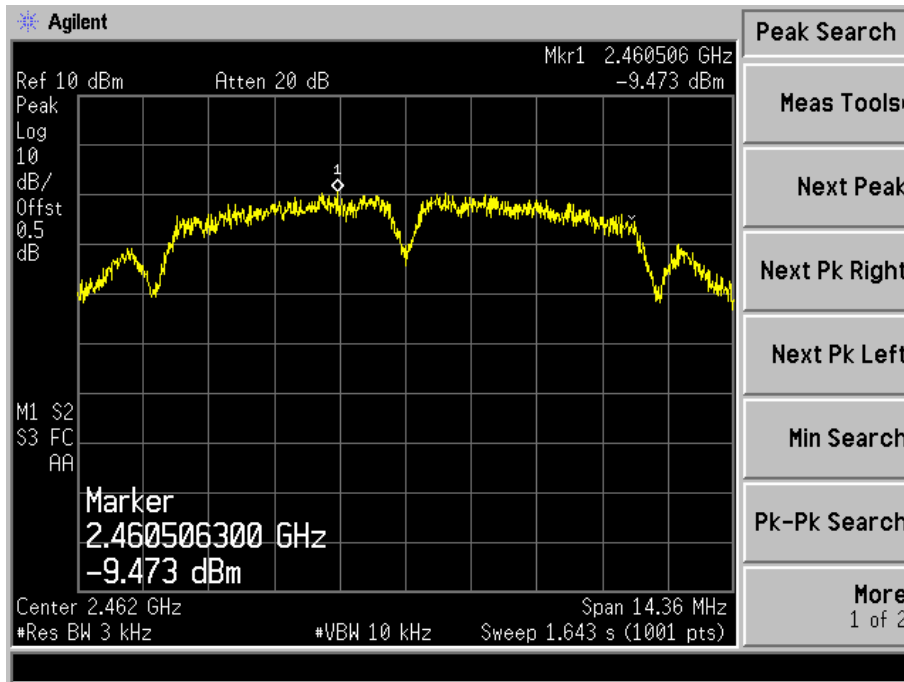
802.11b-Low Channel



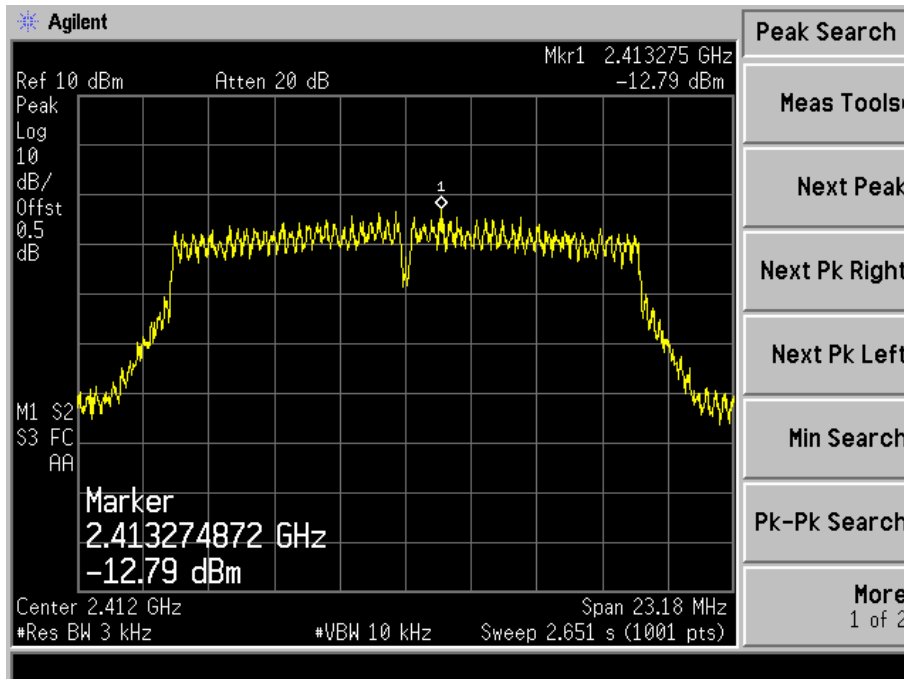
802.11b-Middle Channel



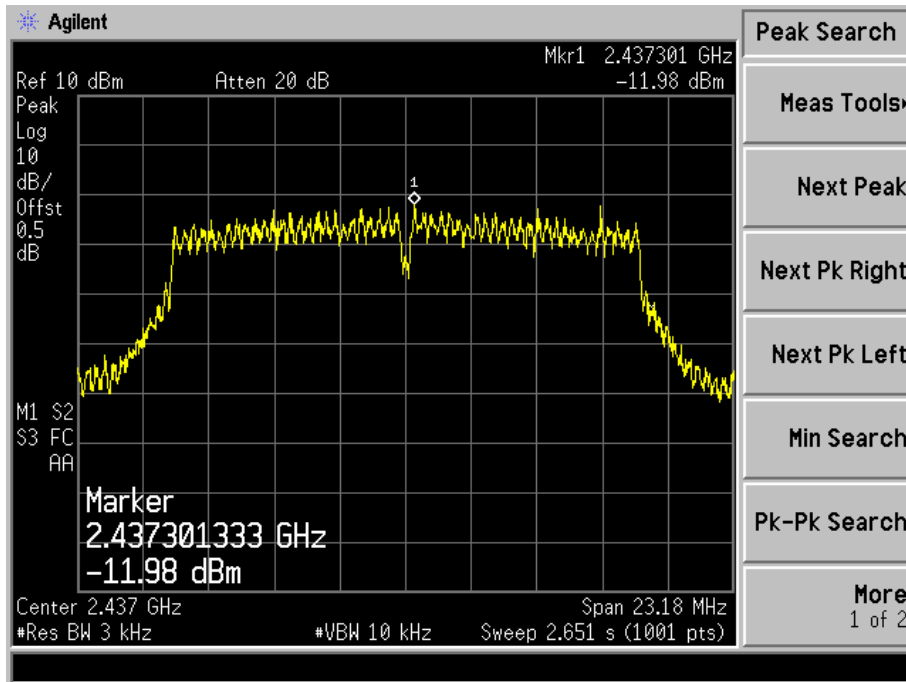
802.11b-High Channel



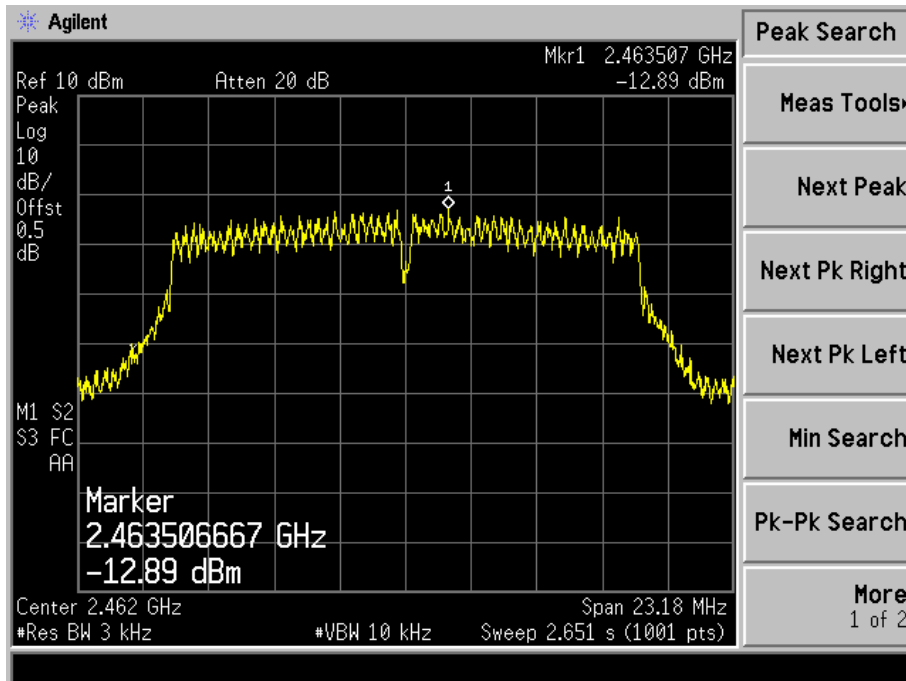
802.11g-Low Channel



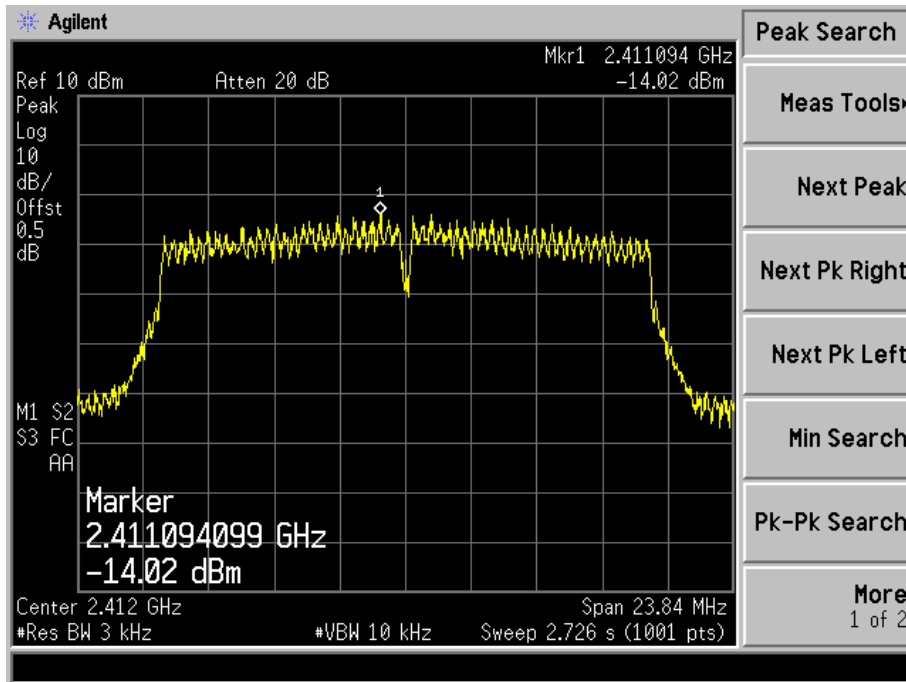
802.11g-Middle Channel



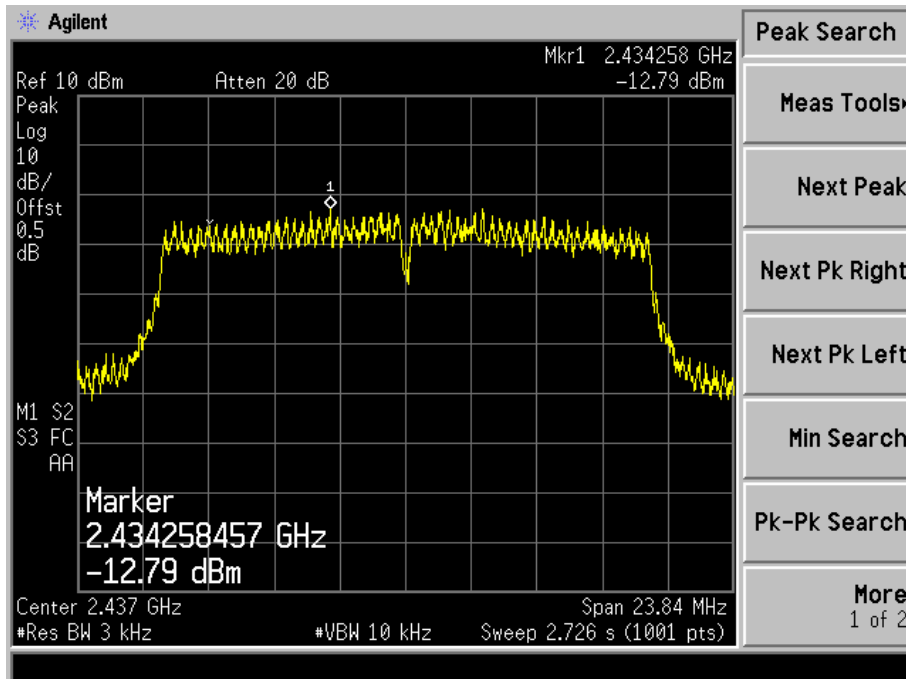
802.11g-High Channel



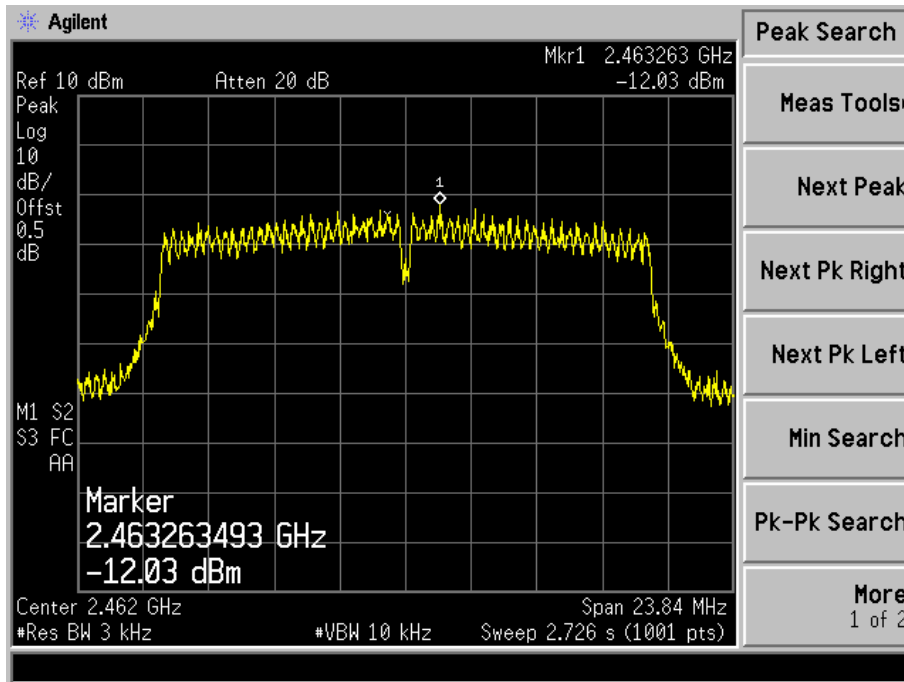
802.11n-HT20-Low Channel



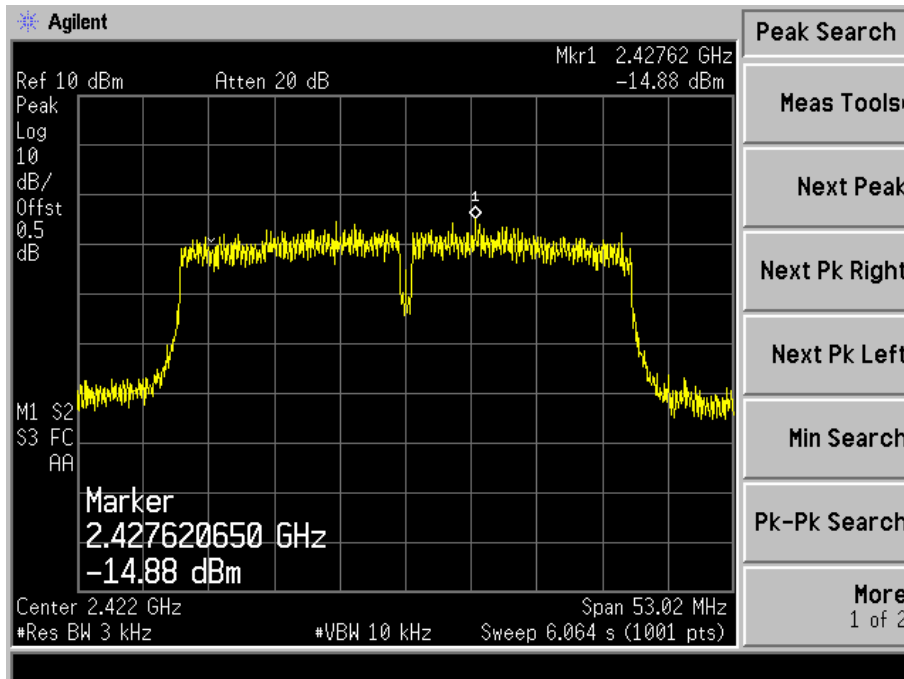
802.11n-HT20-Middle Channel



802.11n-HT20-High Channel

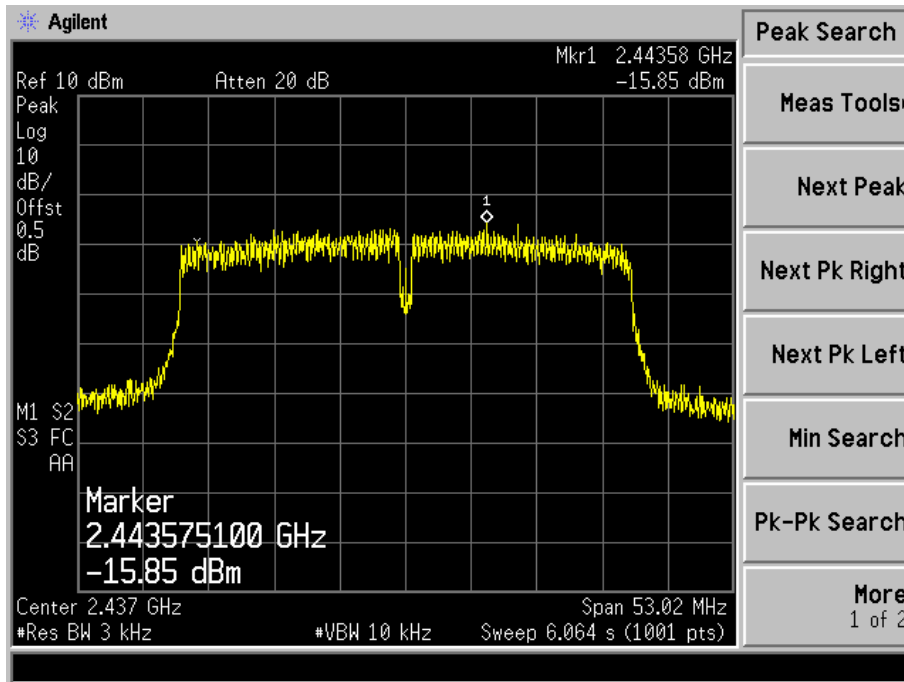


802.11n-HT40-Low Channel

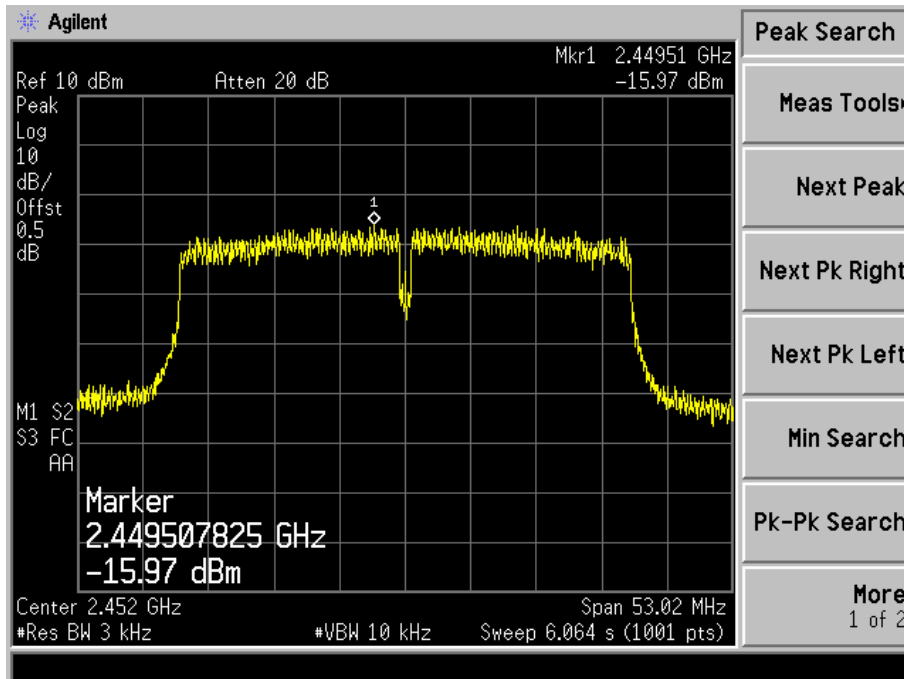




802.11n-HT40-Middle Channel



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

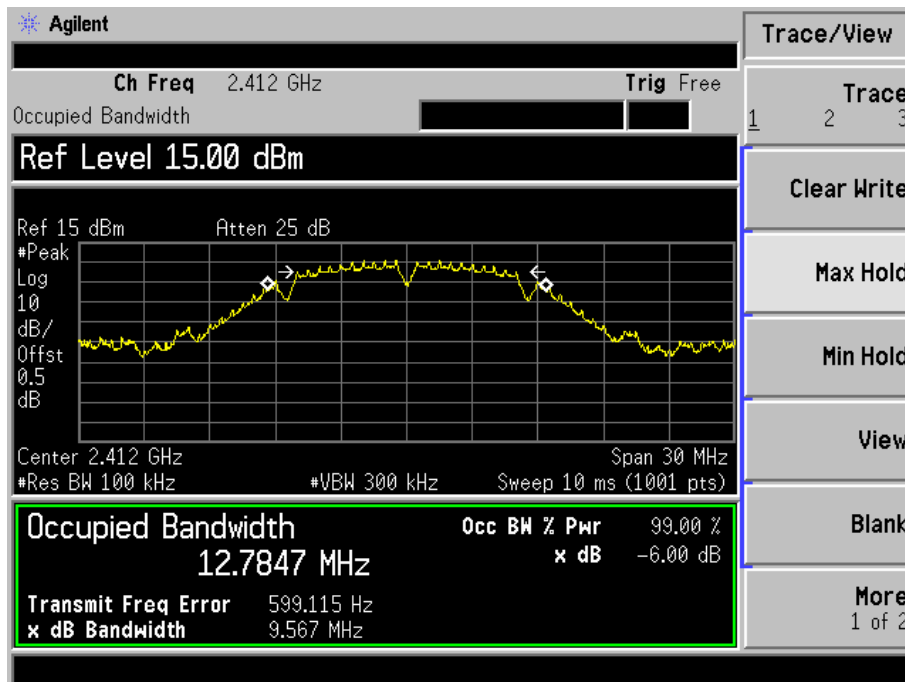
Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

### 6.4 Summary of Test Results/Plots

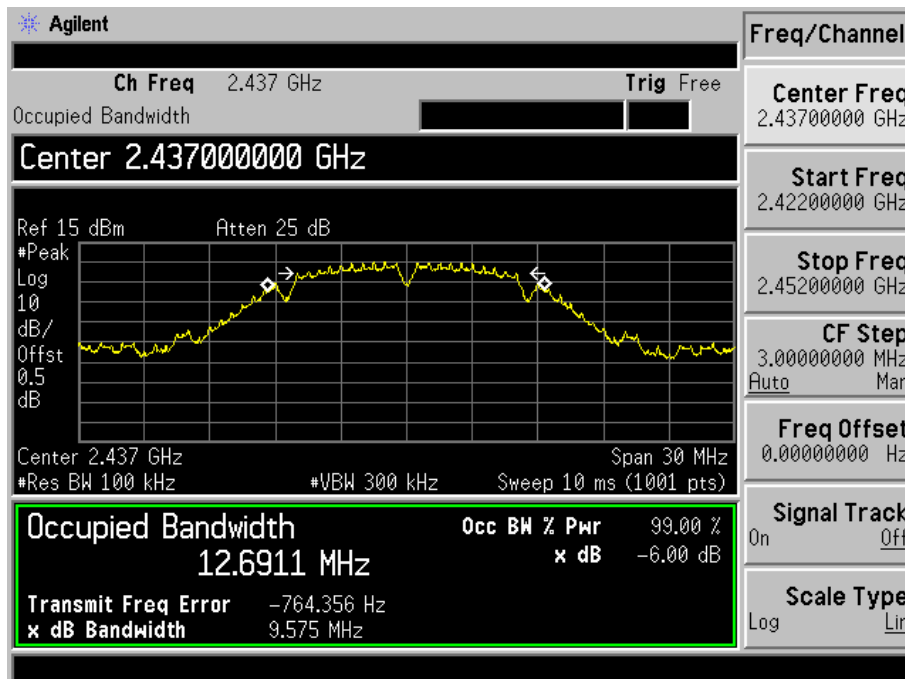
Test Mode	Test Channel MHz	6 dB Bandwidth MHz	99% Bandwidth MHz	Limit kHz
802.11b	2412	9.567	12.7847	$\geq 500$
	2437	9.575	12.6911	$\geq 500$
	2462	9.095	12.5833	$\geq 500$
802.11g	2412	15.348	16.3917	$\geq 500$
	2437	15.122	16.3956	$\geq 500$
	2462	15.453	16.3856	$\geq 500$
802.11n-HT20	2412	15.893	17.5363	$\geq 500$
	2437	15.153	17.5482	$\geq 500$
	2462	15.786	17.5354	$\geq 500$
802.11n-HT40	2422	35.248	35.8096	$\geq 500$
	2437	35.350	35.8283	$\geq 500$
	2452	35.248	35.8096	$\geq 500$

Please refer to the following test plots:

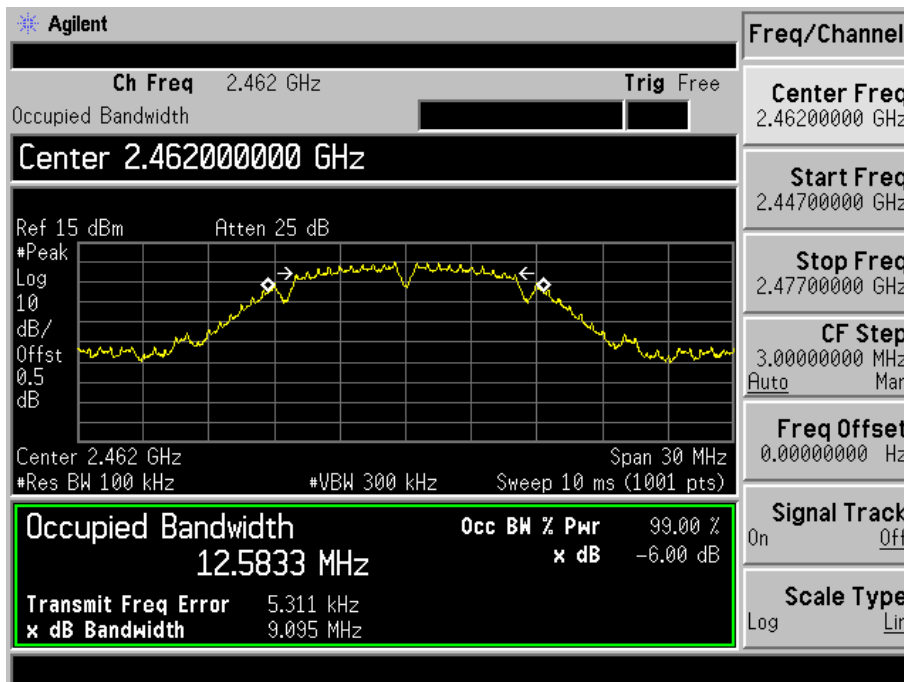
## 802.11b-Low Channel



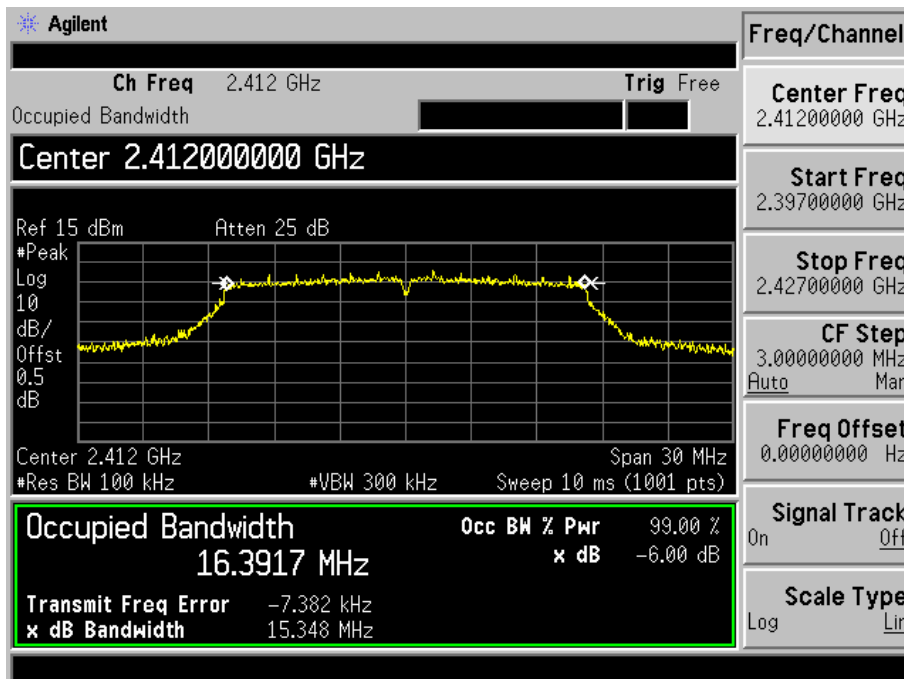
## 802.11b-Middle Channel



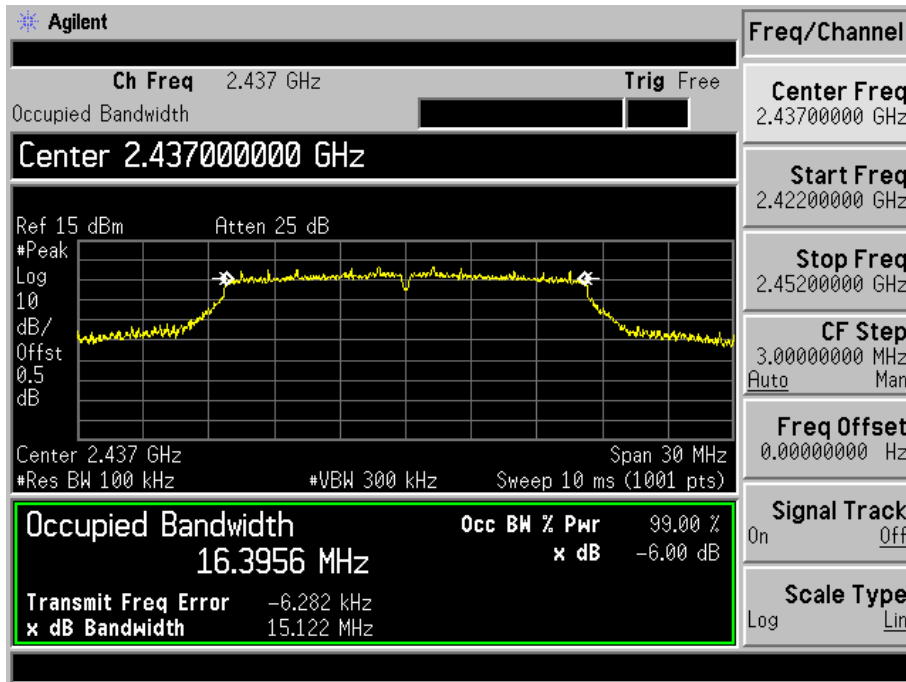
## 802.11b-High Channel



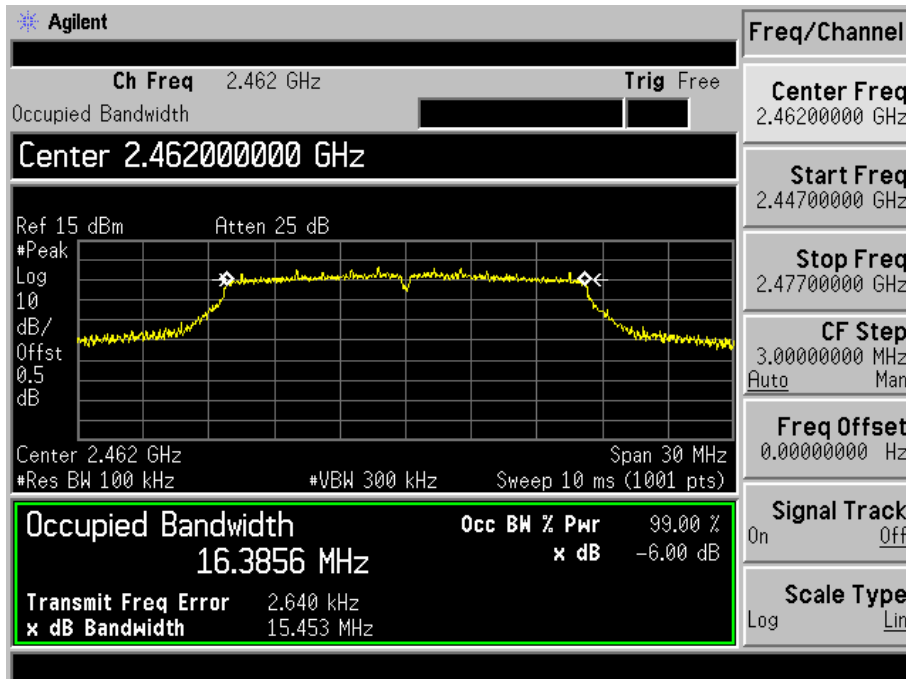
## 802.11g-Low Channel



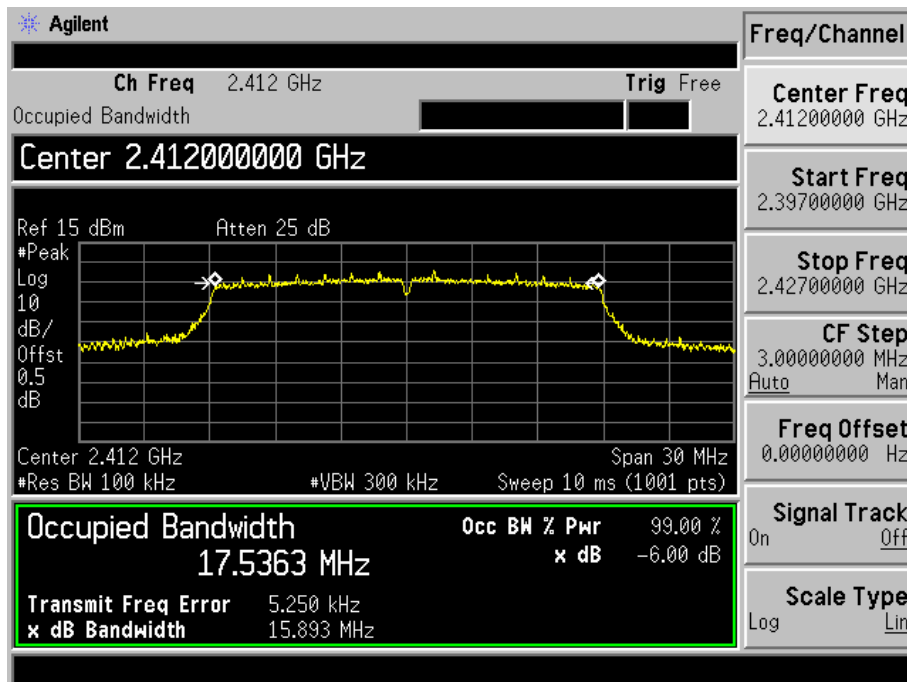
802.11g-Middle Channel



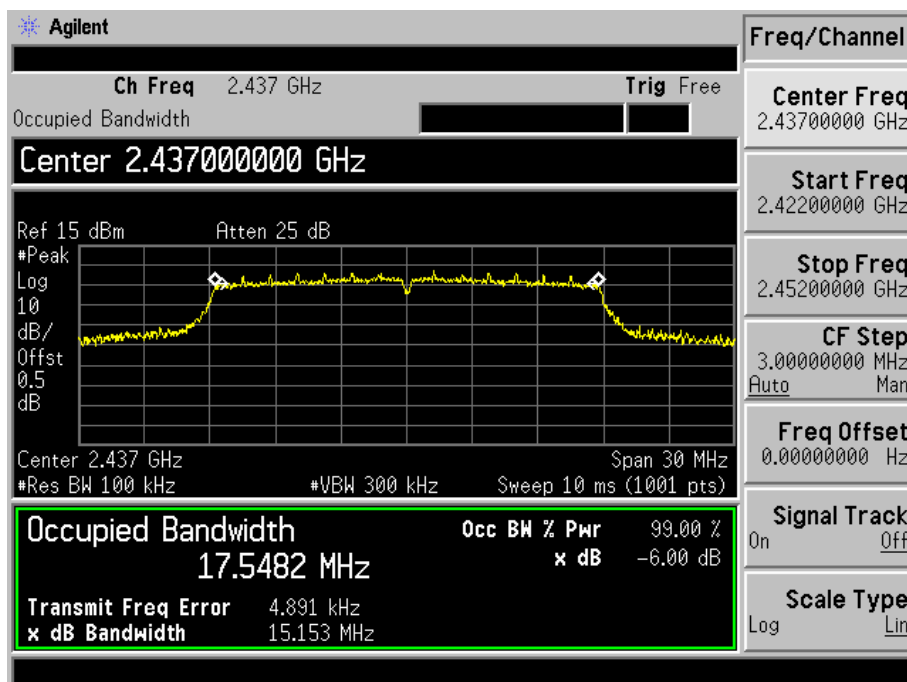
802.11g-High Channel



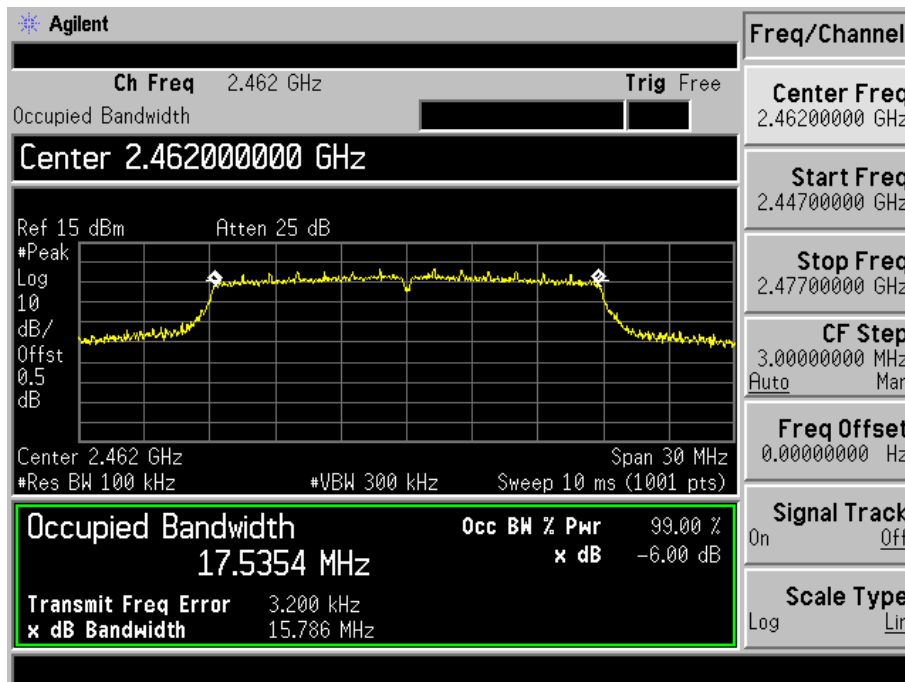
## 802.11n-HT20-Low Channel



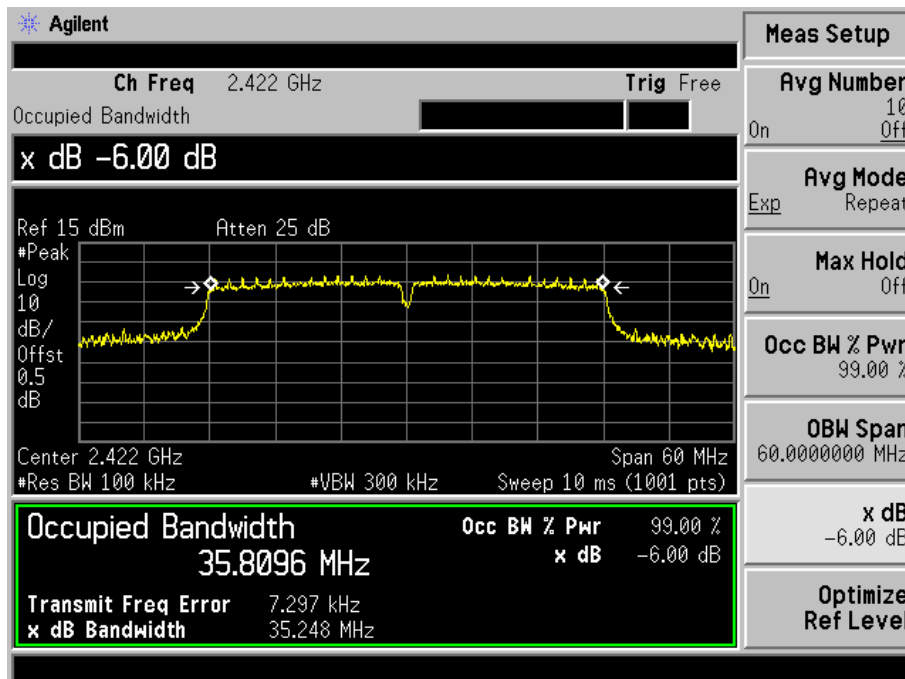
## 802.11n-HT20-Middle Channel



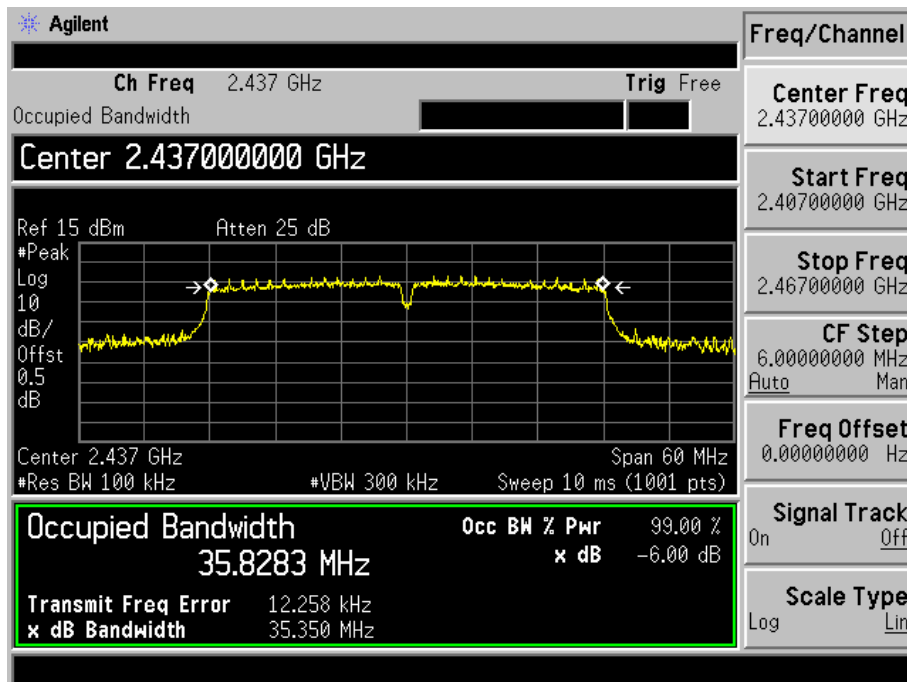
## 802.11n-HT20-High Channel



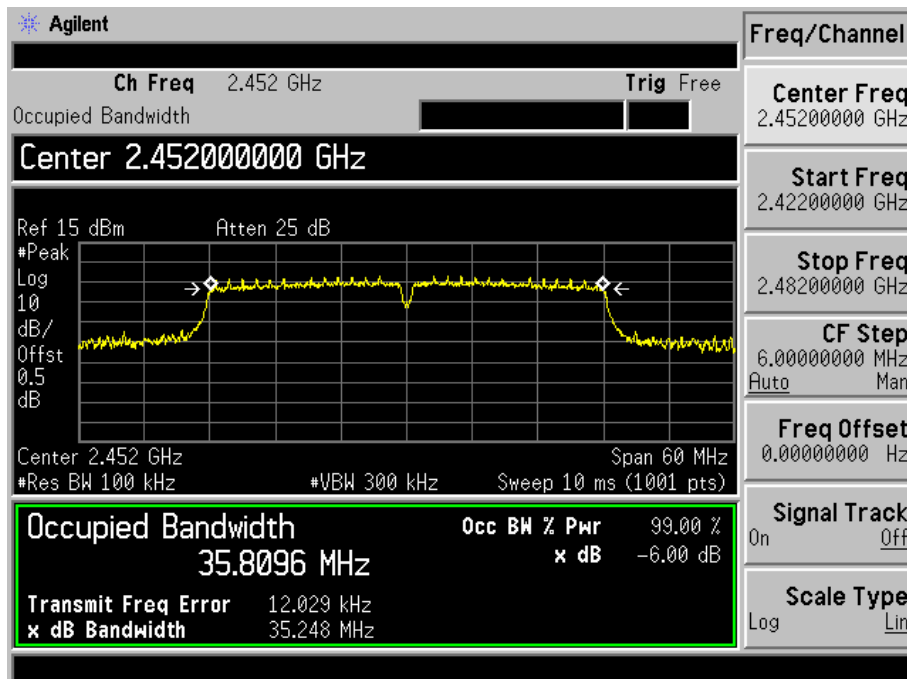
## 802.11n-HT40-Low Channel



## 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  $\geq 2 \times$  span / RBW. (This gives bin-to-bin spacing  $\leq$  RBW/2, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle  $< 98 \%$ , use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\geq 98 \%$ , 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

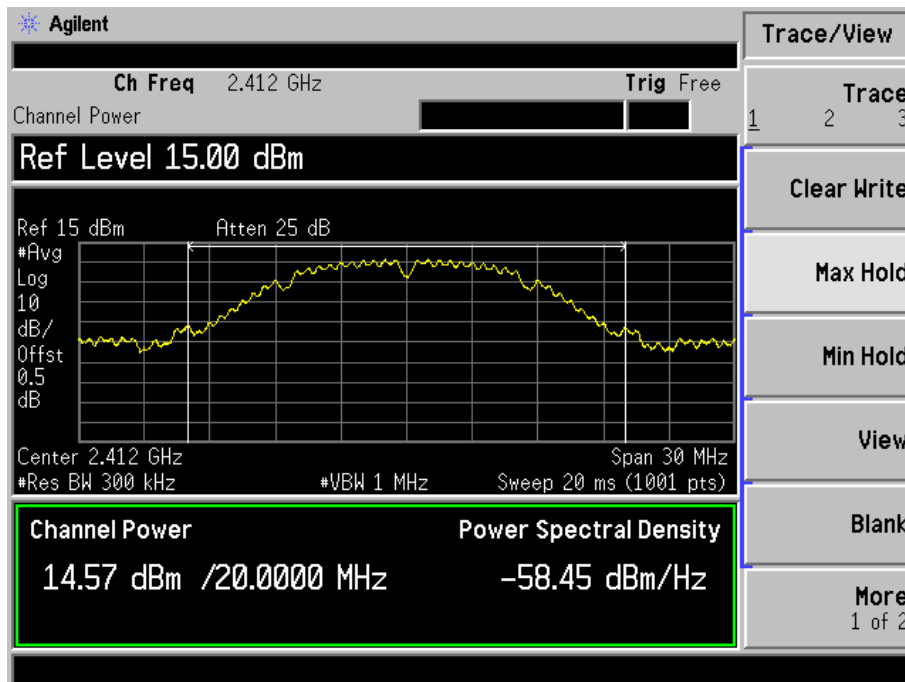
Temperature:	26° C
Relative Humidity:	57%
ATM Pressure:	1011 mbar

#### 7.4 Summary of Test Results/Plots

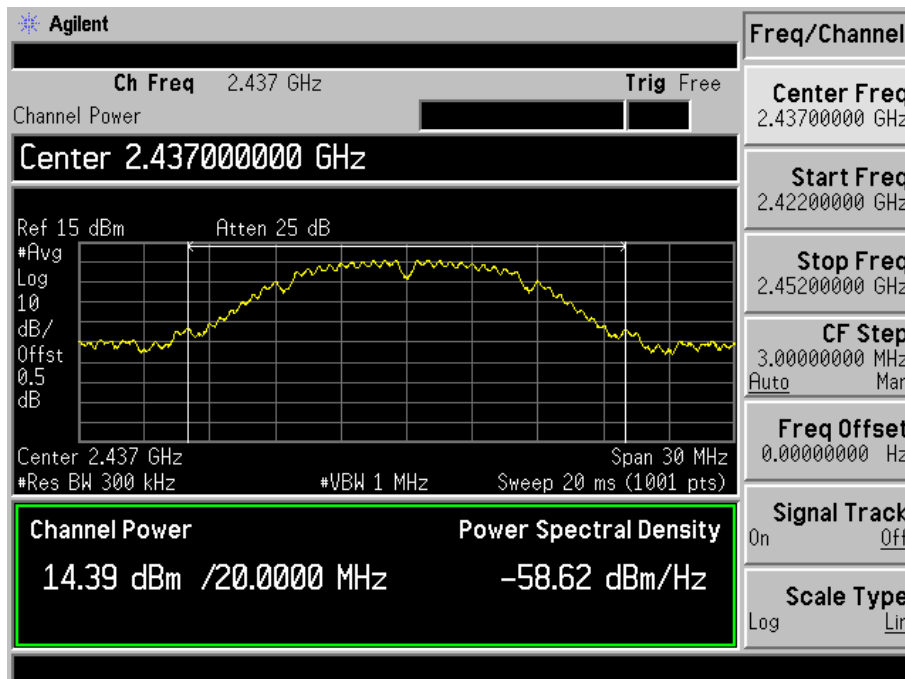
Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
802.11b_11Mbps	2412	14.57	28.64	1000
	2437	14.39	27.48	1000
	2462	13.88	24.43	1000
802.11g_54Mbps	2412	10.56	11.38	1000
	2437	11.93	15.60	1000
	2462	11.52	14.19	1000
802.11n HT20_MCS7	2412	10.50	11.22	1000
	2437	12.00	15.85	1000
	2462	11.51	14.16	1000
802.11n HT40_MCS7	2422	11.20	13.18	1000
	2437	11.09	12.85	1000
	2452	10.80	12.02	1000

Please refer to the following test plots:

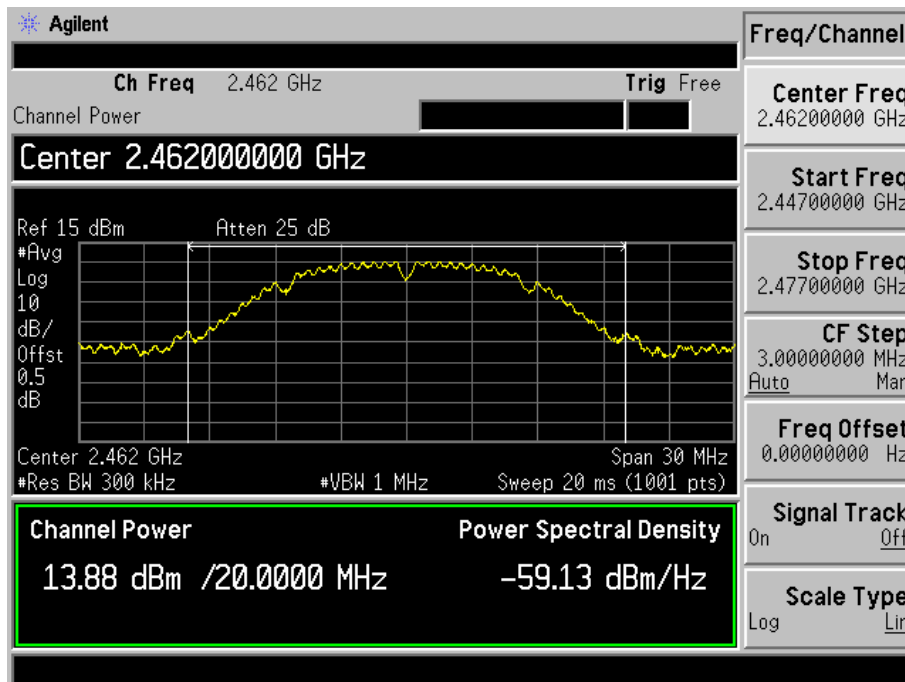
## 802.11b-11Mbps-Low Channel



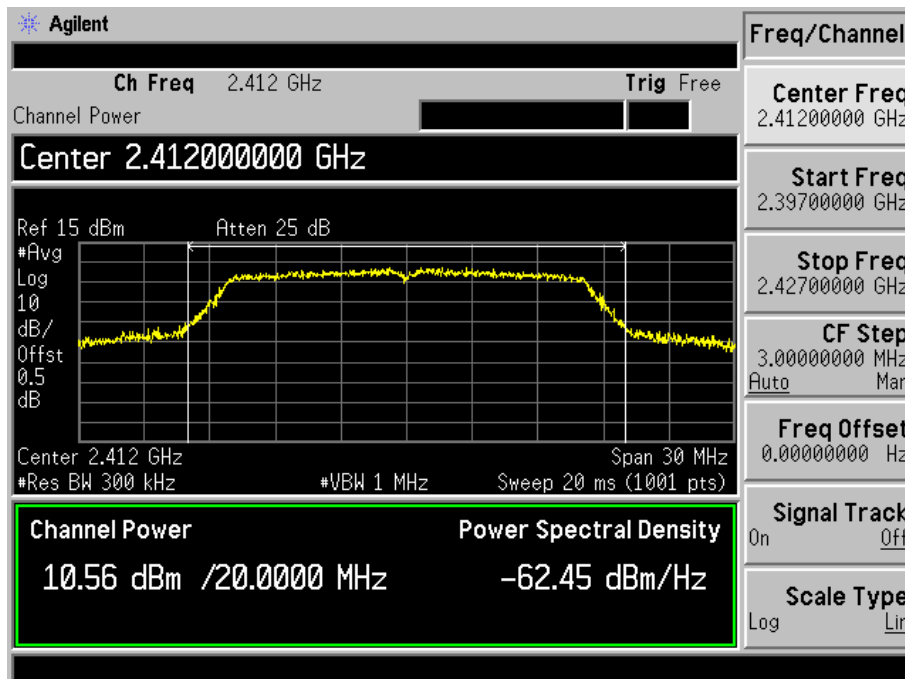
## 802.11b -11Mbps-Middle Channel



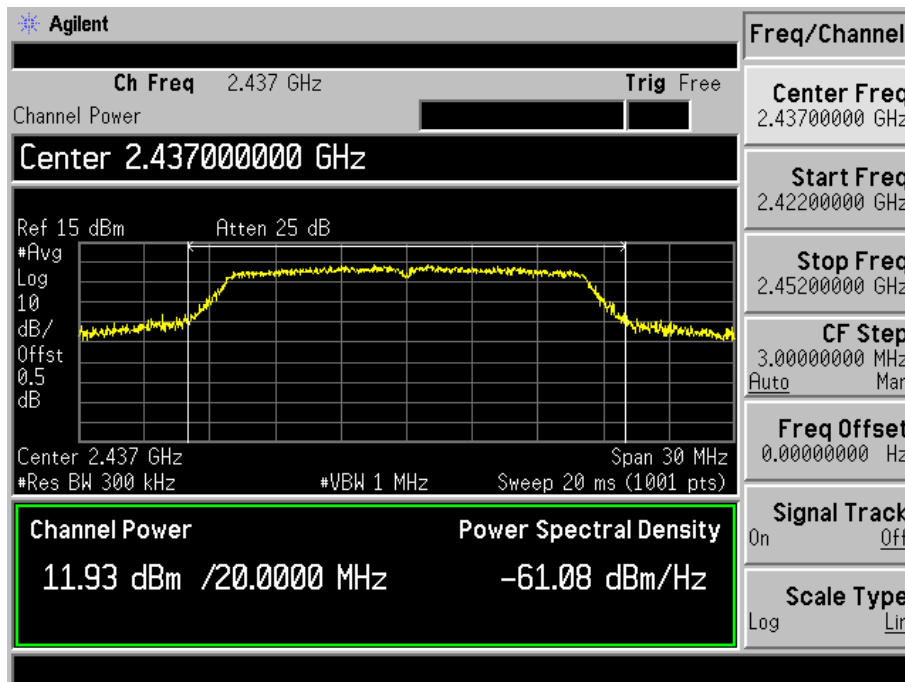
## 802.11b -11Mbps-High Channel



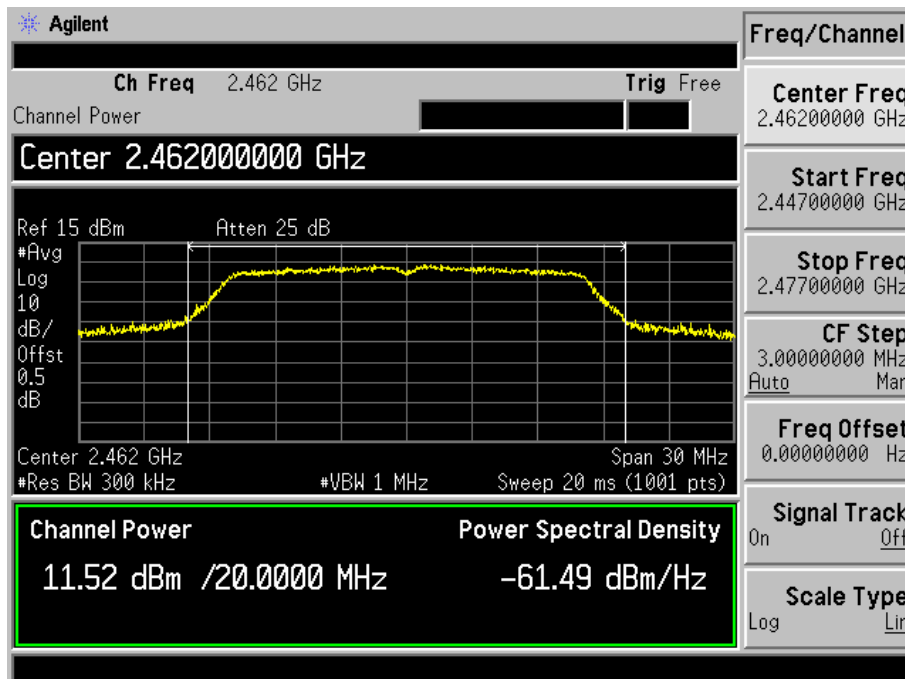
## 802.11g-54Mbps-Low Channel



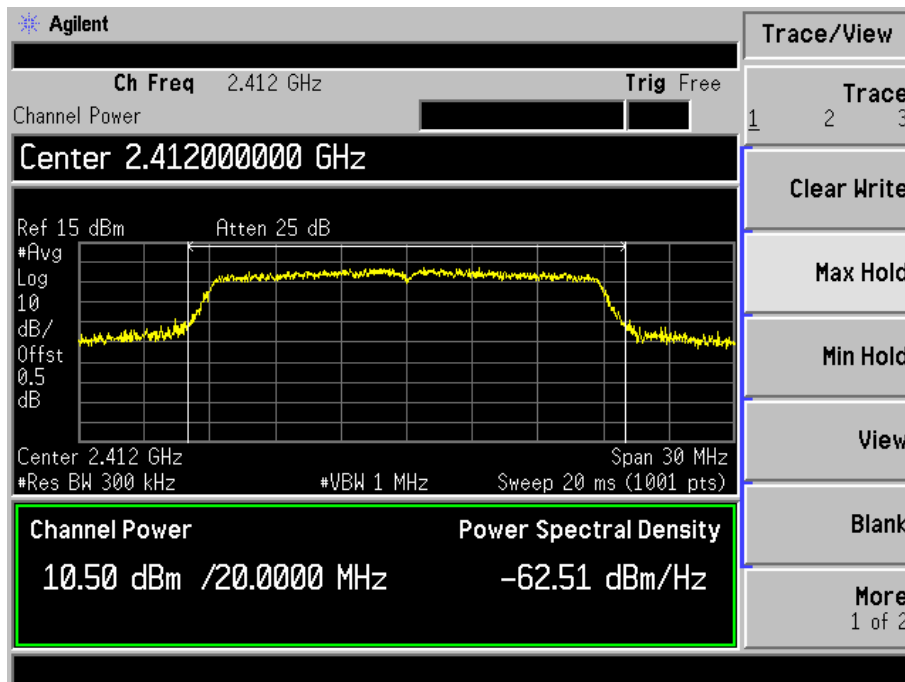
## 802.11g-54Mbps-Middle Channel



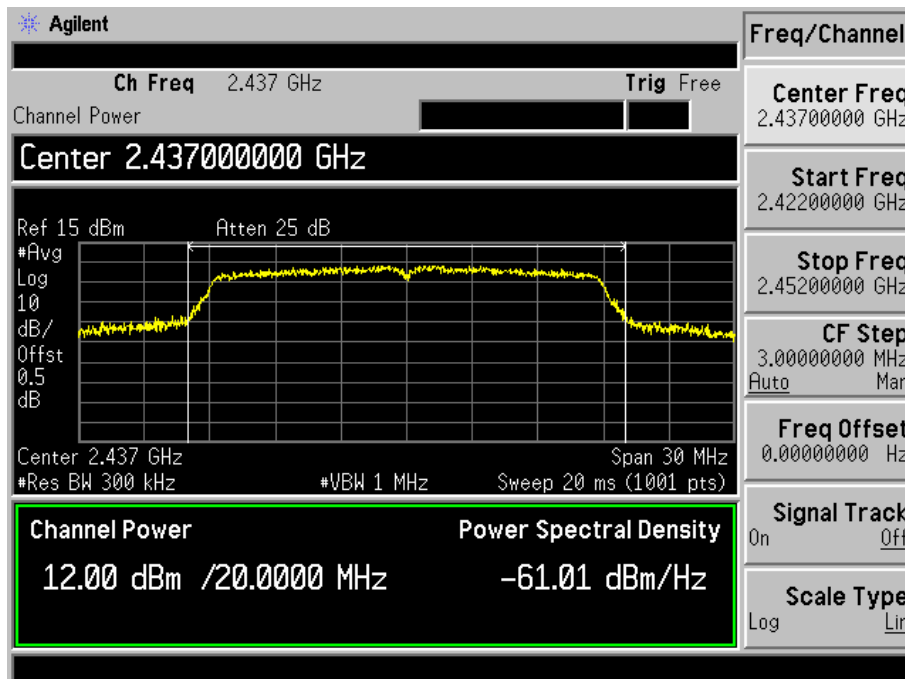
## 802.11g-54Mbps-High Channel



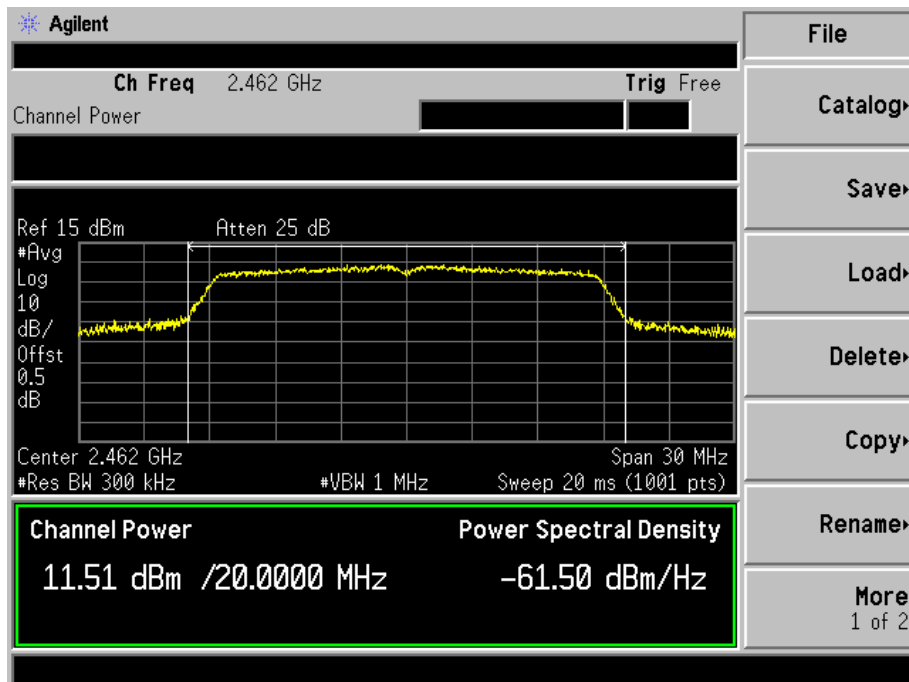
## 802.11n-HT20-MCS7-Low Channel



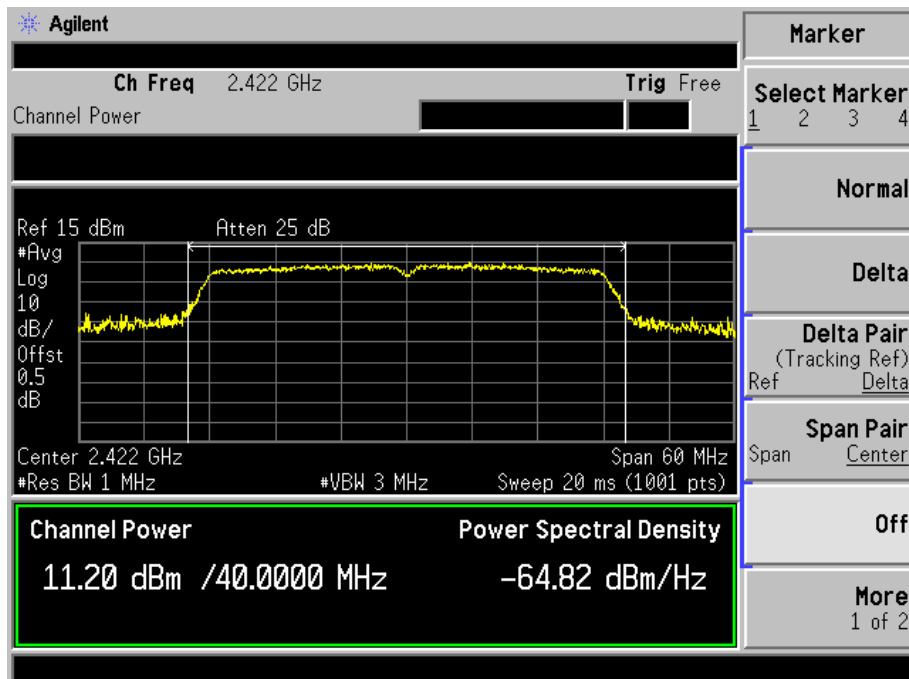
## 802.11n-HT20-MCS7-Middle Channel



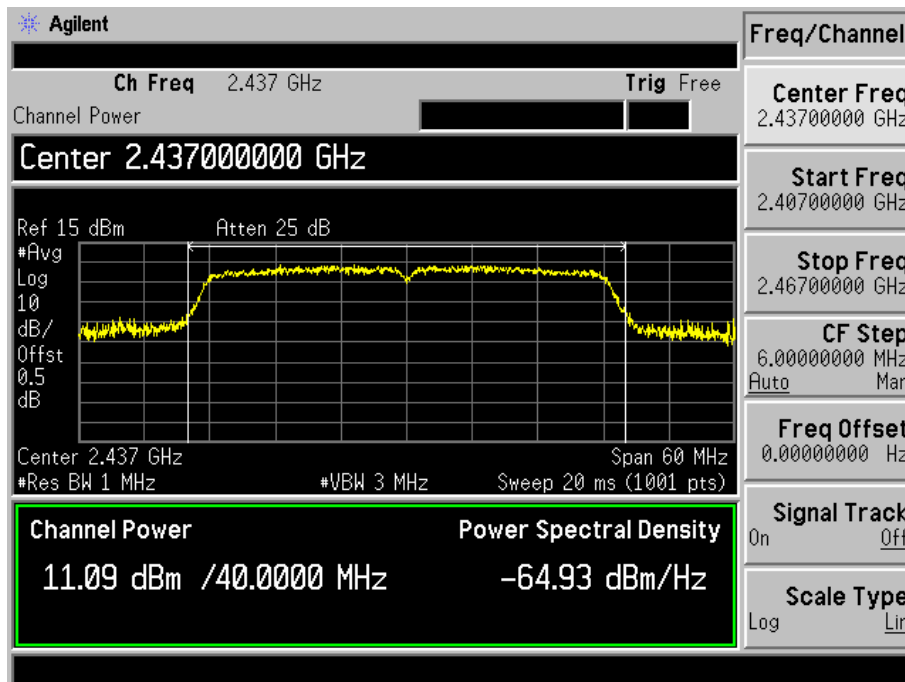
## 802.11n-HT20-MCS7-High Channel



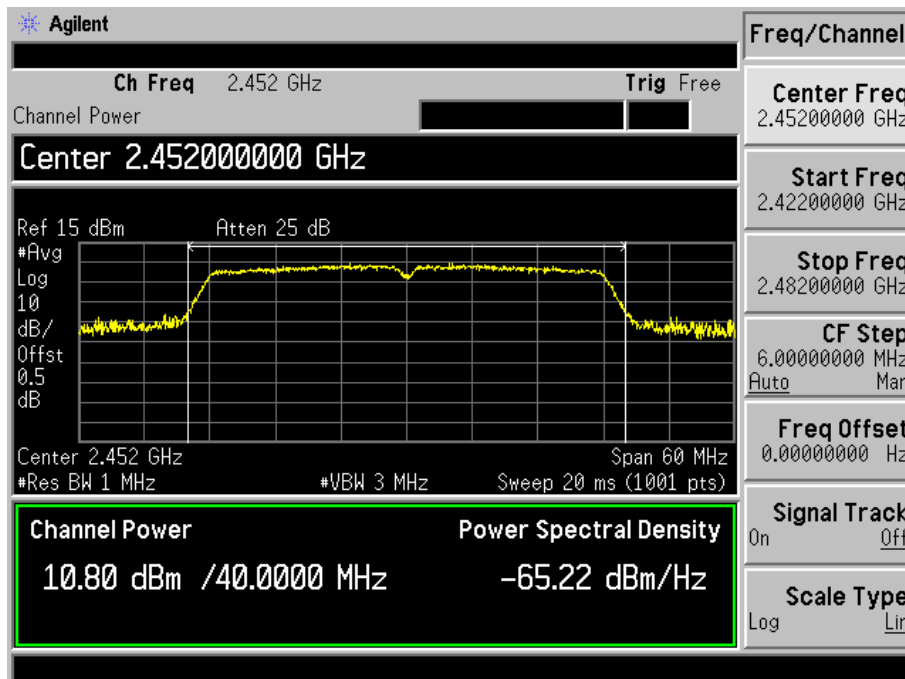
## 802.11n-HT40-MCS7-Low Channel



## 802.11n-HT40-MCS7-Middle Channel



## 802.11n-HT40-MCS7-High Channel





## 8. Field Strength of Spurious Emissions

### 8.1 Standard Applicable

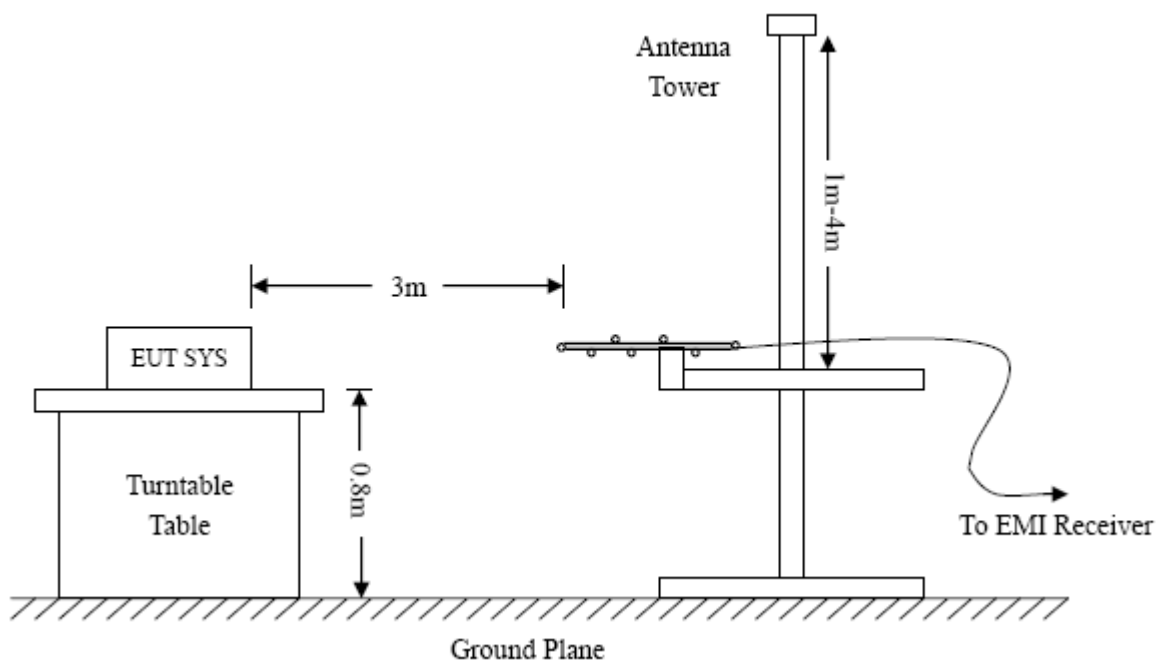
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within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

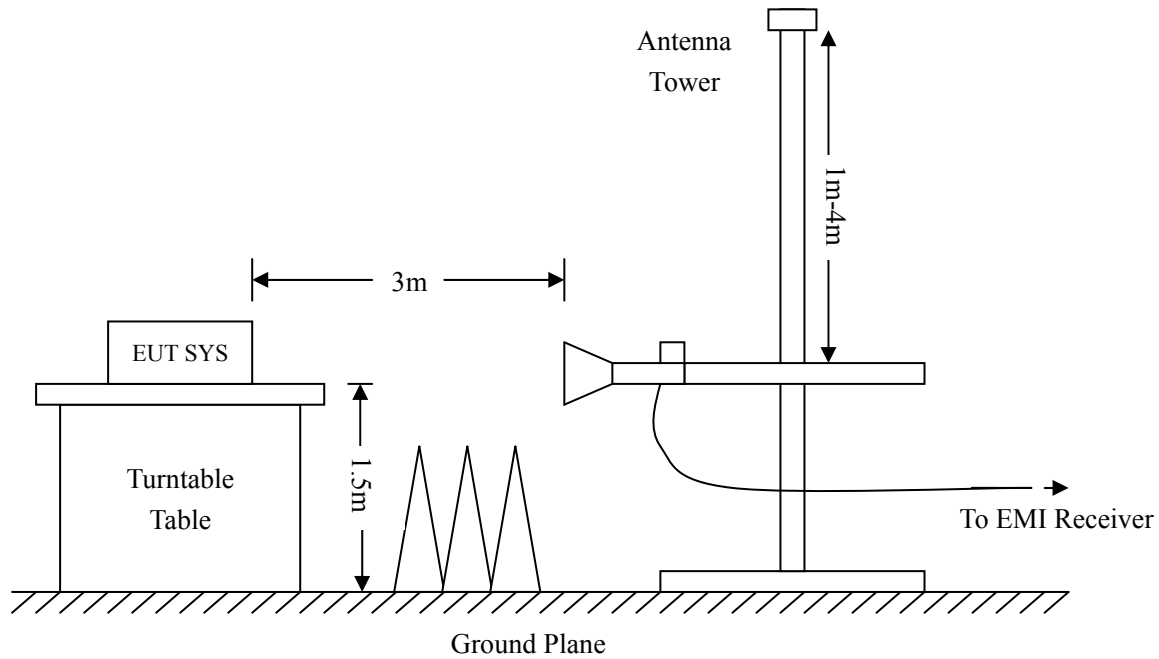
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

### 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=300KHz  
 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 -6dB $\mu$ V means the emission is 6dB $\mu$ V below the maximum limit. The equation for margin calculation is as follows:

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

### 8.4 Environmental Conditions

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

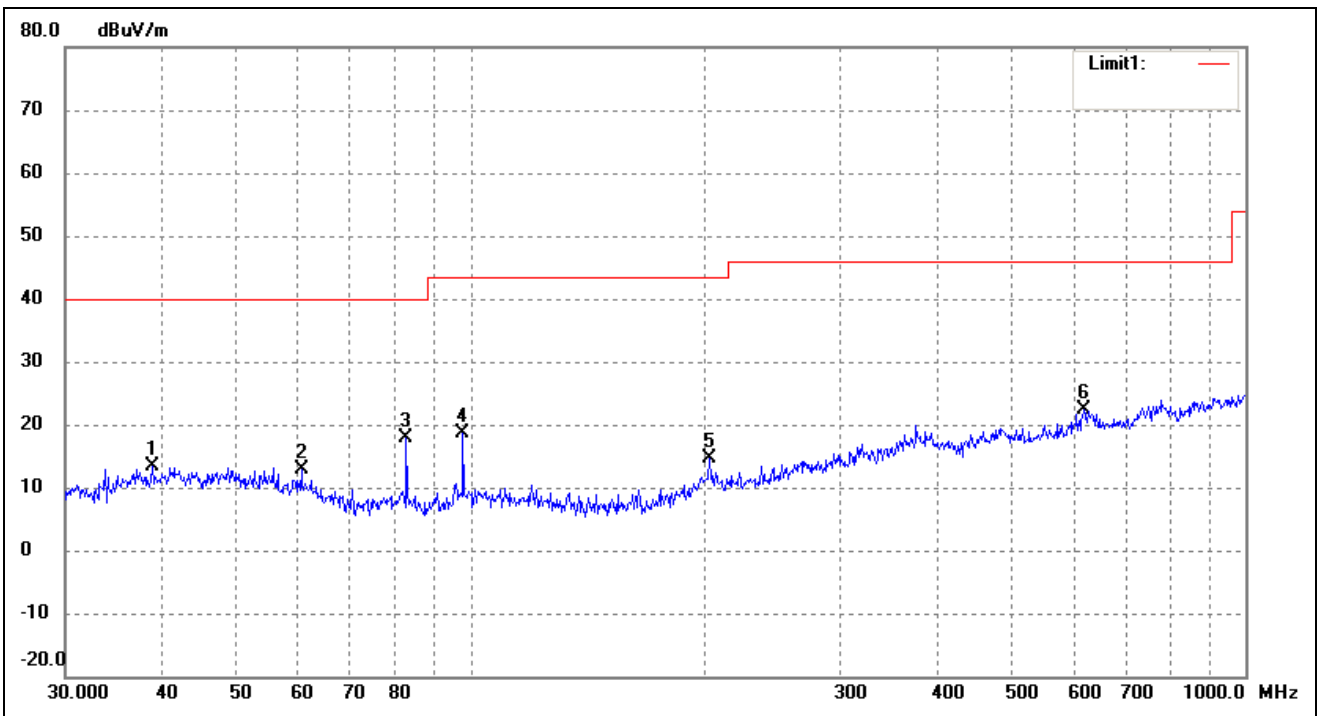
### 8.5 Summary of Test Results/Plots

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

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

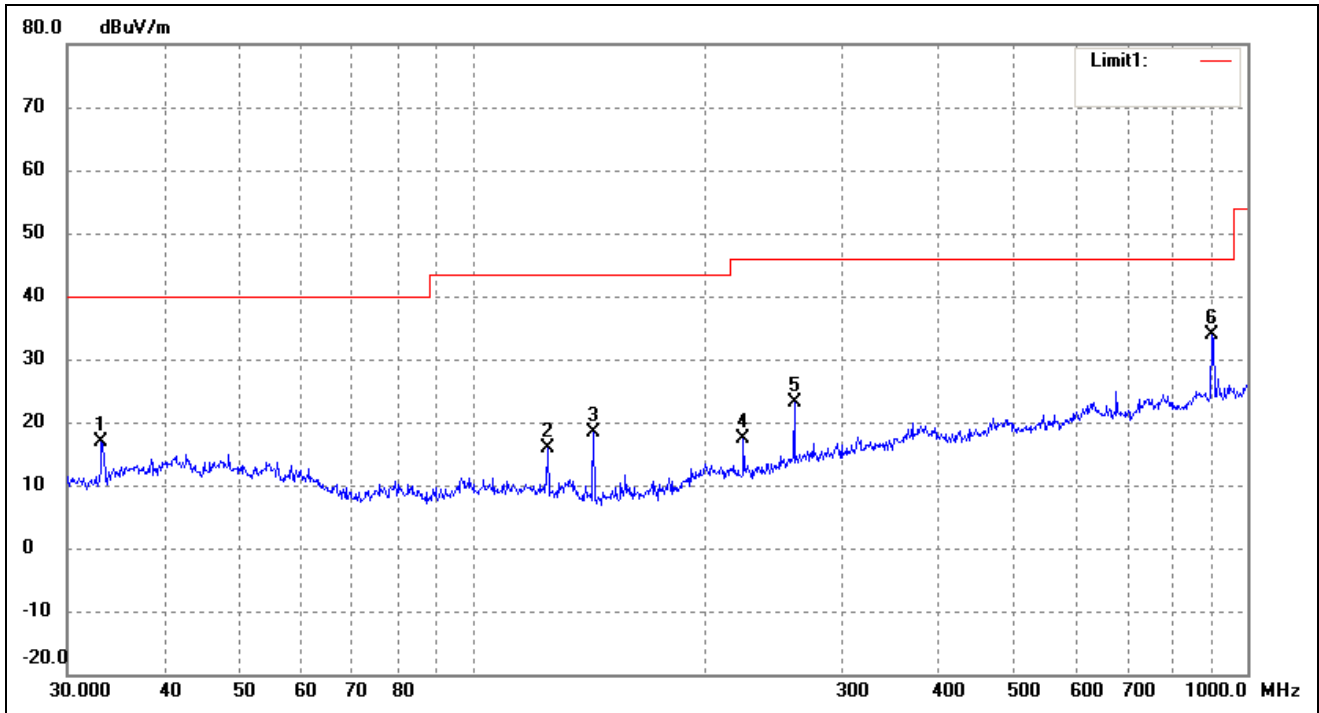
#### Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: *Monkey II LTE*  
 Tested Model: *PL5003*  
 Operating Condition: *802.11b Transmitting-Lowest Channel (Worst Case)*  
 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	38.8879	21.46	-7.97	13.49	40.00	-26.51	99	100	peak
2	60.4919	22.55	-9.74	12.81	40.00	-27.19	222	100	peak
3	82.6482	30.03	-12.24	17.79	40.00	-22.21	74	100	peak
4	97.7983	30.01	-11.35	18.66	43.50	-24.84	335	100	peak
5	203.5228	23.30	-8.68	14.62	43.50	-28.88	137	100	peak
6	618.5369	21.34	1.14	22.48	46.00	-23.52	301	100	peak

Test Specification: Vertical

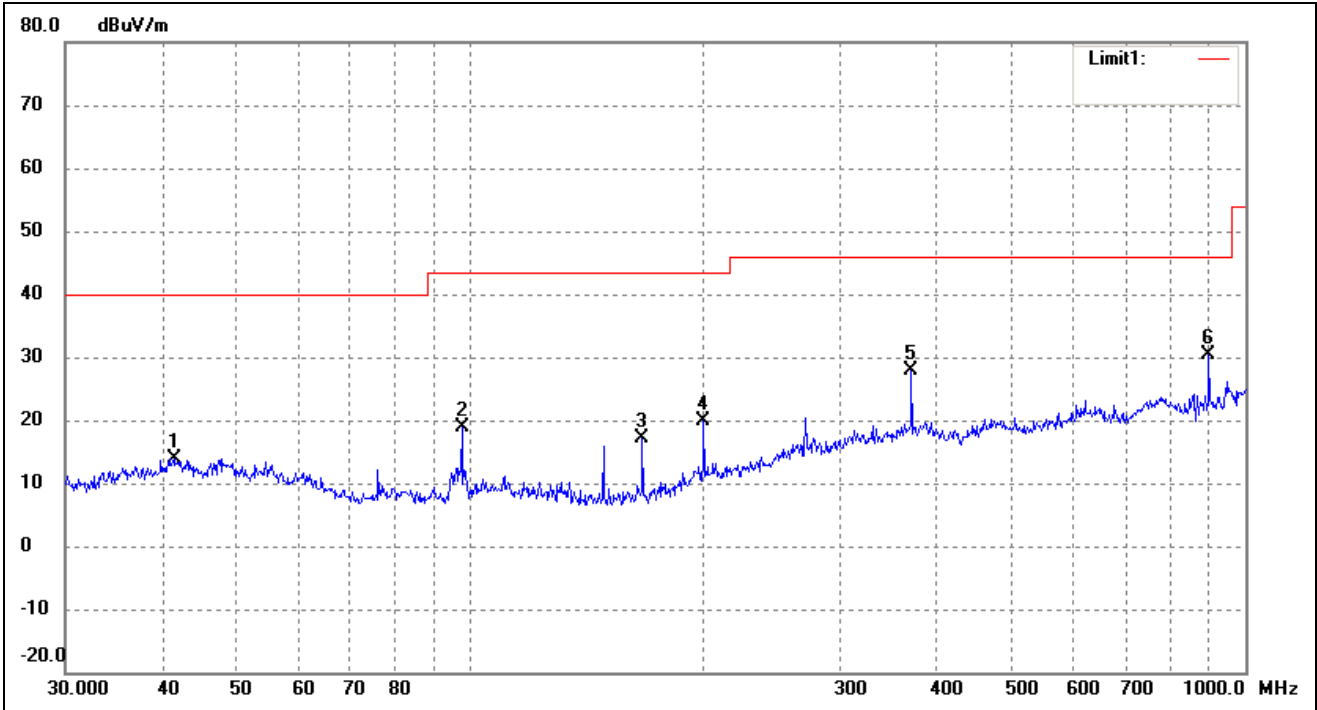


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	33.2112	26.29	-9.50	16.79	40.00	-23.21	92	100	peak
2	125.0066	27.64	-11.71	15.93	43.50	-27.57	149	100	peak
3	143.3261	30.89	-12.51	18.38	43.50	-25.12	126	100	peak
4	223.7334	26.10	-8.75	17.35	46.00	-28.65	100	100	peak
5	260.1444	30.02	-6.95	23.07	46.00	-22.93	80	100	peak
6	900.1474	30.74	3.15	33.89	46.00	-12.11	170	100	peak

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

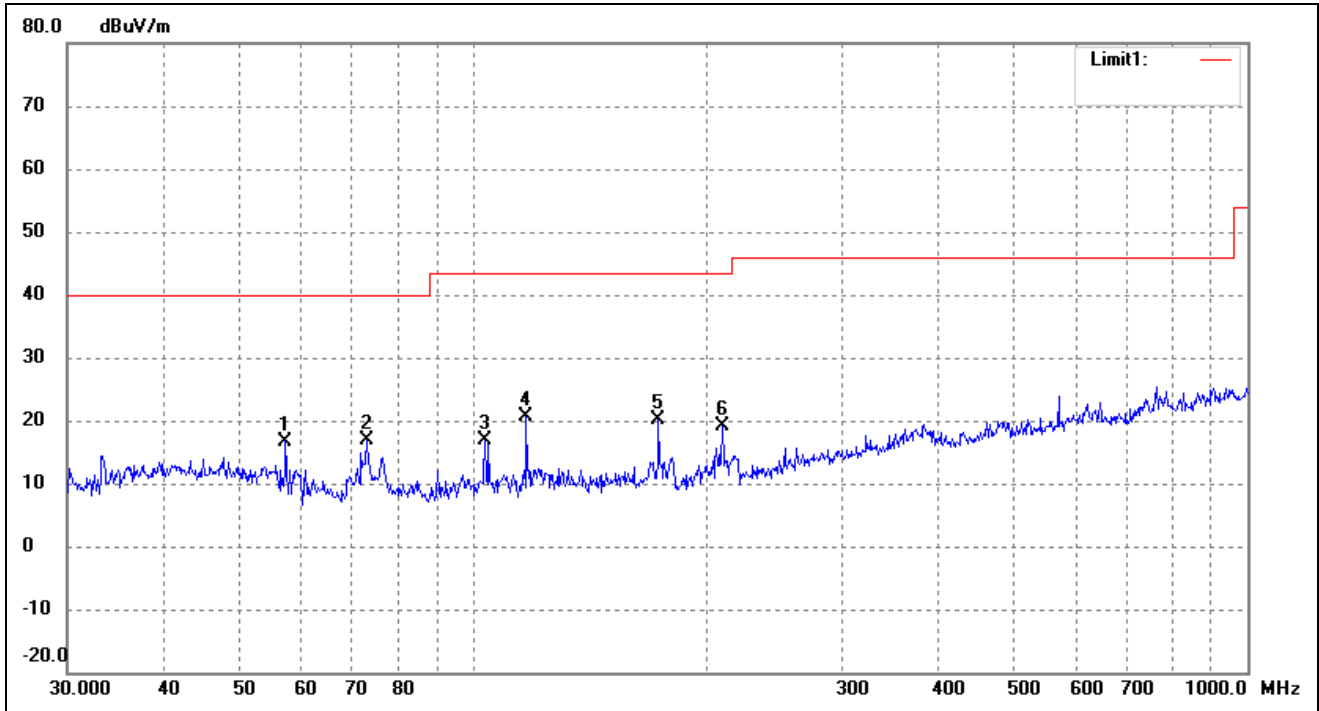
EUT: *Monkey II LTE*  
 Tested Model: *PL5003*  
 Operating Condition: *802.11b Transmitting-Middle Channel (Worst Case)*  
 Comment: *DC 3.8V*

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	41.4215	21.73	-7.76	13.97	40.00	-26.03	111	100	peak
2	97.4560	30.19	-11.42	18.77	43.50	-24.73	251	100	peak
3	166.6514	29.11	-11.97	17.14	43.50	-26.36	66	100	peak
4	199.9856	28.43	-8.65	19.78	43.50	-23.72	185	100	peak
5	370.7023	30.55	-2.63	27.92	46.00	-18.08	107	100	peak
6	896.9965	27.27	3.15	30.42	46.00	-15.58	122	100	peak

Test Specification: Vertical

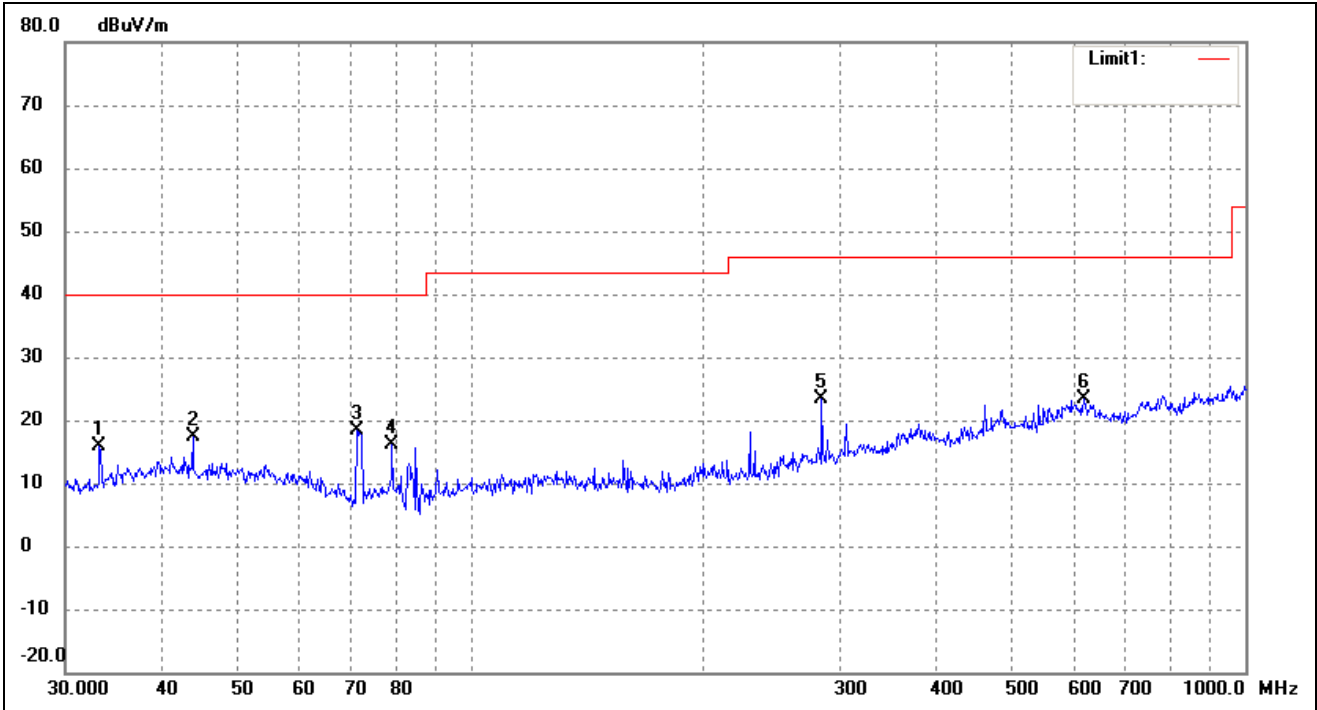


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( )	Height (cm)	Remark
1	57.3923	26.00	-9.25	16.75	40.00	-23.25	301	100	peak
2	73.1025	29.43	-12.57	16.86	40.00	-23.14	99	100	peak
3	103.8055	27.78	-11.00	16.78	43.50	-26.72	67	100	peak
4	117.3603	31.98	-11.37	20.61	43.50	-22.89	118	100	peak
5	173.8135	31.68	-11.63	20.05	43.50	-23.45	92	100	peak
6	210.0482	27.89	-8.74	19.15	43.50	-24.35	327	100	peak

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

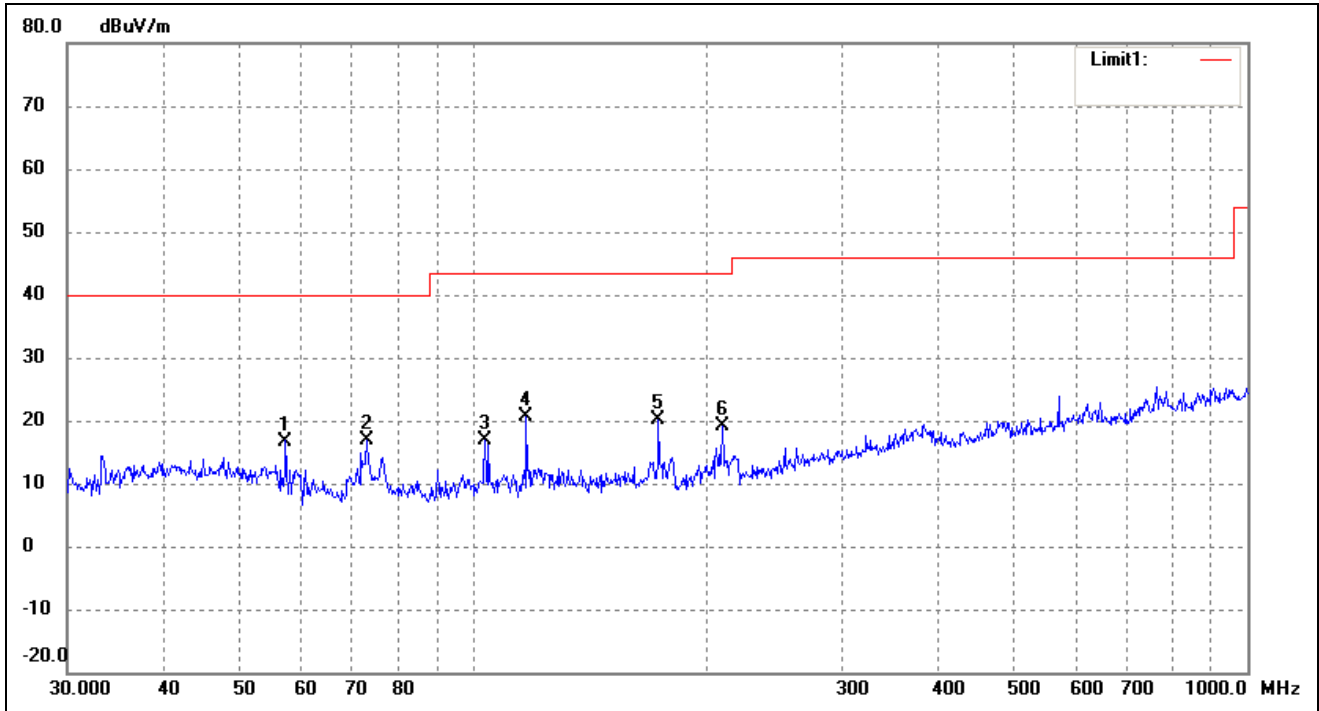
EUT: *Monkey II LTE*  
 Tested Model: *PL5003*  
 Operating Condition: *802.11b Transmitting-Highest Channel (Worst Case)*  
 Comment: *DC 3.8V*

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	33.2112	25.38	-9.50	15.88	40.00	-24.12	334	100	peak
2	43.8119	25.25	-7.92	17.33	40.00	-22.67	90	100	peak
3	71.3300	31.00	-12.72	18.28	40.00	-21.72	178	100	peak
4	79.2426	28.16	-12.05	16.11	40.00	-23.89	103	100	peak
5	283.9791	29.39	-6.01	23.38	46.00	-22.62	350	100	peak
6	618.5369	22.29	1.14	23.43	46.00	-22.57	349	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	57.3923	26.00	-9.25	16.75	40.00	-23.25	65	100	peak
2	73.1025	29.43	-12.57	16.86	40.00	-23.14	185	100	peak
3	103.8055	27.78	-11.00	16.78	43.50	-26.72	71	100	peak
4	117.3603	31.98	-11.37	20.61	43.50	-22.89	213	100	peak
5	173.8135	31.68	-11.63	20.05	43.50	-23.45	100	100	peak
6	210.0482	27.89	-8.74	19.15	43.50	-24.35	192	100	peak



*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							
4824.000	62.52	-3.87	58.65	74	-15.35	H	PK
4824.000	50.19	-3.87	46.32	54	-7.68	H	AV
7236.000	60.42	1.14	61.56	74	-12.44	H	PK
7236.000	47.82	1.19	49.01	54	-4.99	H	AV
4824.000	65.38	-3.86	61.52	74	-12.48	V	PK
4824.000	52.64	-3.86	48.78	54	-5.22	V	AV
7236.000	59.32	1.1	60.42	74	-13.58	V	PK
7236.000	45.01	1.1	46.11	54	-7.89	V	AV
Middle Channel-2437MHz							
4874.000	62.67	-3.74	58.93	74	-15.07	H	PK
4874.000	52.87	-3.74	49.13	54	-4.87	H	AV
7311.000	58.71	1.47	60.18	74	-13.82	H	PK
7311.000	45.65	1.47	47.12	54	-6.88	H	AV
4874.000	63.85	-3.74	60.11	74	-13.89	V	PK
4874.000	51.48	-3.74	47.74	54	-6.26	V	AV
7311.000	59.47	1.47	60.94	74	-13.06	V	PK
7311.000	47.26	1.47	48.73	54	-5.27	V	AV
High Channel-2462MHz							
4924.000	62.63	-3.59	59.04	74	-14.96	H	PK
4924.000	50.42	-3.59	46.83	54	-7.17	H	AV
7386.000	59.92	1.79	61.71	74	-12.29	H	PK
7386.000	46.81	1.79	48.6	54	-5.4	H	AV
4924.000	63.97	-3.59	60.38	74	-13.62	V	PK
4924.000	50.83	-3.59	47.24	54	-6.76	V	AV
7386.000	61.33	1.79	63.12	74	-10.88	V	PK
7386.000	46.56	1.79	48.35	54	-5.65	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							
4824.000	65.57	-3.87	61.7	74	-12.3	H	PK
4824.000	50.75	-3.87	46.88	54	-7.12	H	AV
7236.000	59.29	1.14	60.43	74	-13.57	H	PK
7236.000	45.33	1.19	46.52	54	-7.48	H	AV
4824.000	65.01	-3.86	61.15	74	-12.85	V	PK
4824.000	51.41	-3.86	47.55	54	-6.45	V	AV
7236.000	61.72	1.1	62.82	74	-11.18	V	PK
7236.000	47.94	1.1	49.04	54	-4.96	V	AV
Middle Channel-2437MHz							
4874.000	63.42	-3.74	59.68	74	-14.32	H	PK
4874.000	51.62	-3.74	47.88	54	-6.12	H	AV
7311.000	59.78	1.47	61.25	74	-12.75	H	PK
7311.000	46.14	1.47	47.61	54	-6.39	H	AV
4874.000	64.2	-3.74	60.46	74	-13.54	V	PK
4874.000	50.13	-3.74	46.39	54	-7.61	V	AV
7311.000	58.5	1.47	59.97	74	-14.03	V	PK
7311.000	46.35	1.47	47.82	54	-6.18	V	AV
High Channel-2462MHz							
4924.000	62.28	-3.59	58.69	74	-15.31	H	PK
4924.000	51.7	-3.59	48.11	54	-5.89	H	AV
7386.000	60	1.79	61.79	74	-12.21	H	PK
7386.000	46.17	1.79	47.96	54	-6.04	H	AV
4924.000	64.66	-3.59	61.07	74	-12.93	V	PK
4924.000	52.89	-3.59	49.3	54	-4.7	V	AV
7386.000	61.71	1.79	63.5	74	-10.5	V	PK
7386.000	46.52	1.79	48.31	54	-5.69	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							
4824.000	63.9	-3.87	60.03	74	-13.97	H	PK
4824.000	50.32	-3.87	46.45	54	-7.55	H	AV
7236.000	60.62	1.14	61.76	74	-12.24	H	PK
7236.000	45.36	1.19	46.55	54	-7.45	H	AV
4824.000	63.78	-3.86	59.92	74	-14.08	V	PK
4824.000	50.35	-3.86	46.49	54	-7.51	V	AV
7236.000	60.25	1.1	61.35	74	-12.65	V	PK
7236.000	45.08	1.1	46.18	54	-7.82	V	AV
Middle Channel-2437MHz							
4874.000	62.96	-3.74	59.22	74	-14.78	H	PK
4874.000	50.85	-3.74	47.11	54	-6.89	H	AV
7311.000	59.13	1.47	60.6	74	-13.4	H	PK
7311.000	46.29	1.47	47.76	54	-6.24	H	AV
4874.000	64.66	-3.74	60.92	74	-13.08	V	PK
4874.000	50.51	-3.74	46.77	54	-7.23	V	AV
7311.000	59.16	1.47	60.63	74	-13.37	V	PK
7311.000	45.56	1.47	47.03	54	-6.97	V	AV
High Channel-2462MHz							
4924.000	63.69	-3.59	60.1	74	-13.9	H	PK
4924.000	52.81	-3.59	49.22	54	-4.78	H	AV
7386.000	59.23	1.79	61.02	74	-12.98	H	PK
7386.000	46.46	1.79	48.25	54	-5.75	H	AV
4924.000	63.42	-3.59	59.83	74	-14.17	V	PK
4924.000	50.36	-3.59	46.77	54	-7.23	V	AV
7386.000	61.41	1.79	63.2	74	-10.8	V	PK
7386.000	45.93	1.79	47.72	54	-6.28	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							
4844.000	64.5	-3.9	60.6	74	-13.40	H	PK
4824.000	52.55	-3.9	48.65	54	-5.35	H	AV
7266.000	60.74	1.06	61.8	74	-12.20	H	PK
7266.000	45.36	1.06	46.42	54	-7.58	H	AV
4844.000	64.25	-3.9	60.35	74	-13.65	V	PK
4824.000	50.55	-3.9	46.65	54	-7.35	V	AV
7266.000	58.22	1.06	59.28	74	-14.72	V	PK
7266.000	45.93	1.06	46.99	54	-7.01	V	AV
Middle Channel-2437MHz							
4874.000	62.53	-3.74	58.79	74	-15.21	H	PK
4874.000	51.76	-3.74	48.02	54	-5.98	H	AV
7311.000	59.07	1.47	60.54	74	-13.46	H	PK
7311.000	45.18	1.47	46.65	54	-7.35	H	AV
4874.000	64.21	-3.74	60.47	74	-13.53	V	PK
4874.000	51.17	-3.74	47.43	54	-6.57	V	AV
7311.000	61.78	1.47	63.25	74	-10.75	V	PK
7311.000	45.96	1.47	47.43	54	-6.57	V	AV
High Channel-2452MHz							
4904.000	65.34	-3.63	61.71	74	-12.29	H	PK
4904.000	52.66	-3.63	49.03	54	-4.97	H	AV
7356.000	61.08	1.62	62.7	74	-11.3	H	PK
7356.000	45.24	1.62	46.86	54	-7.14	H	AV
4904.000	63.4	-3.63	59.77	74	-14.23	V	PK
4904.000	50.59	-3.63	46.96	54	-7.04	V	AV
7356.000	59.13	1.62	60.75	74	-13.25	V	PK
7356.000	45.39	1.62	47.01	54	-6.99	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.

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## 9. Out of Band Emissions

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### 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.

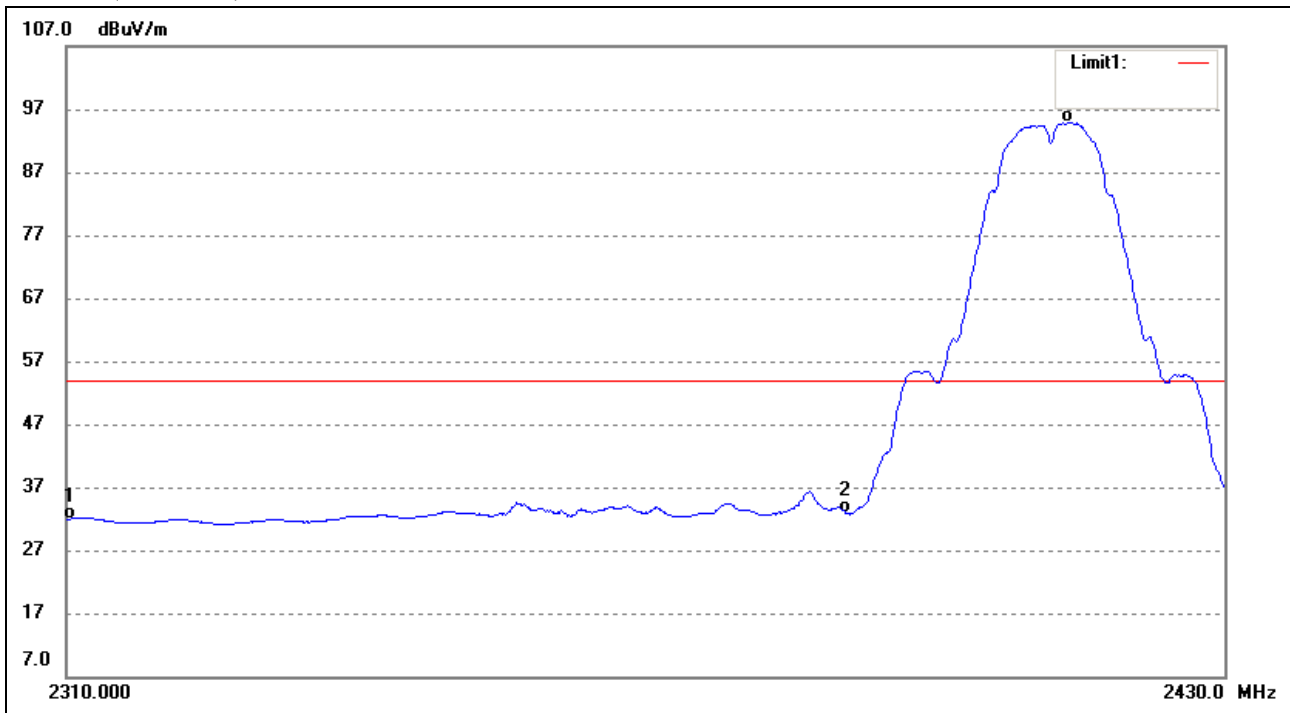
### 9.3 Environmental Conditions

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

### 9.4 Summary of Test Results/Plots

802.11b-Lowest Bandedge

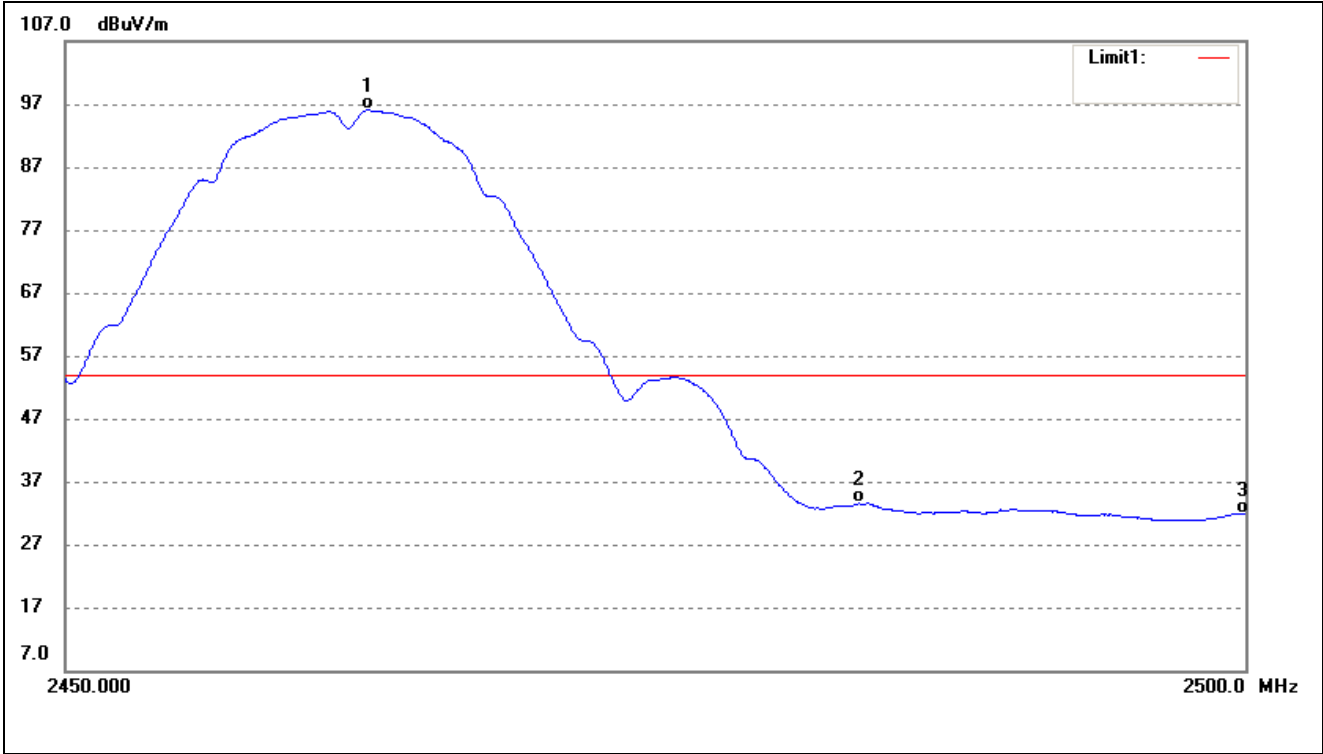
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	38.27	-6.38	31.89	54.00	-22.11	Average Detector
	2310.000	51.10	-6.38	44.72	74.00	-29.28	Peak Detector
2	2390.000	40.15	-7.26	32.89	54.00	-21.11	Average Detector
	2390.000	54.78	-7.26	47.52	74.00	-26.48	Peak Detector
3	2413.443	102.30	-7.40	94.90	/	/	Average Detector
	2413.076	107.98	-7.40	100.58	/	/	Peak Detector

802.11b-Highest Bandedge

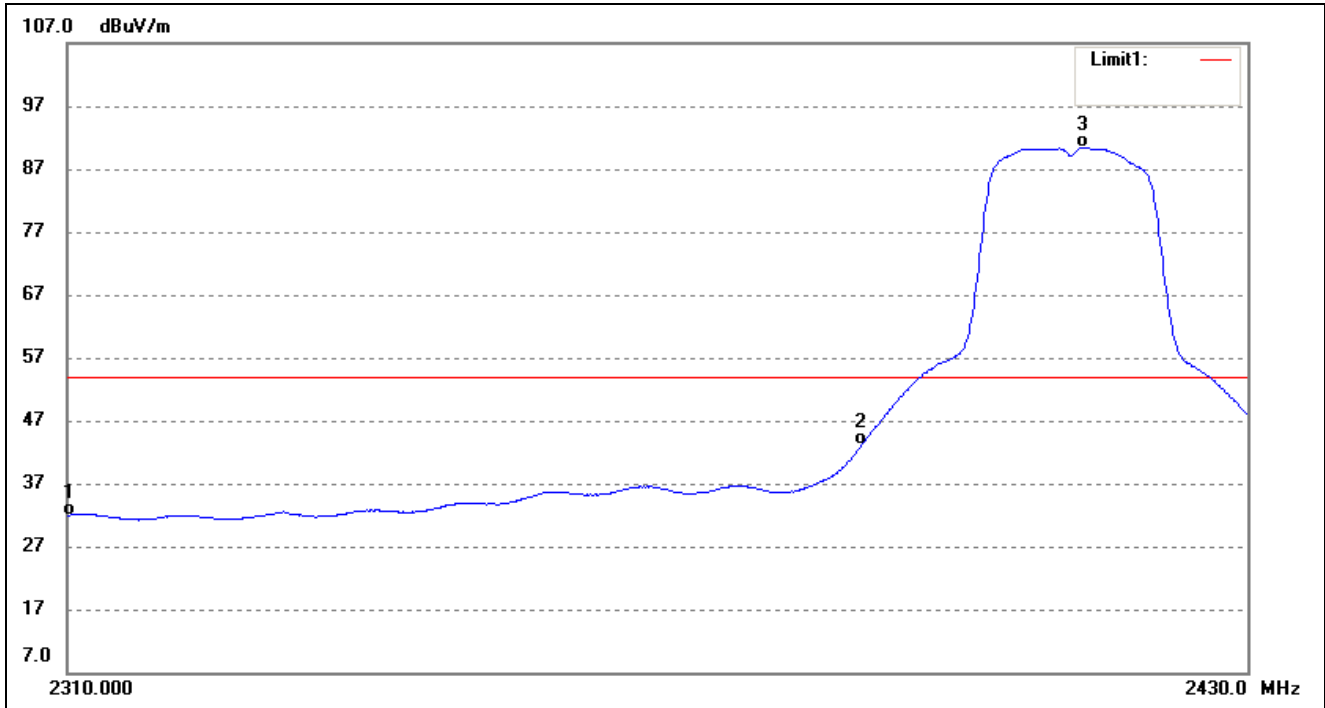
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct Factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.704	103.37	-7.31	96.06	/	/	Average Detector
	2463.401	108.85	-7.31	101.54	/	/	Peak Detector
2	2483.500	40.81	-7.28	33.53	54.00	-20.47	Average Detector
	2483.500	52.56	-7.28	45.28	74.00	-28.72	Peak Detector
3	2500.000	39.18	-7.25	31.93	54.00	-22.07	Average Detector
	2500.000	50.91	-7.25	43.66	74.00	-30.34	Peak Detector

802.11g-Lowest Bandedge

Vertical (Worst case)

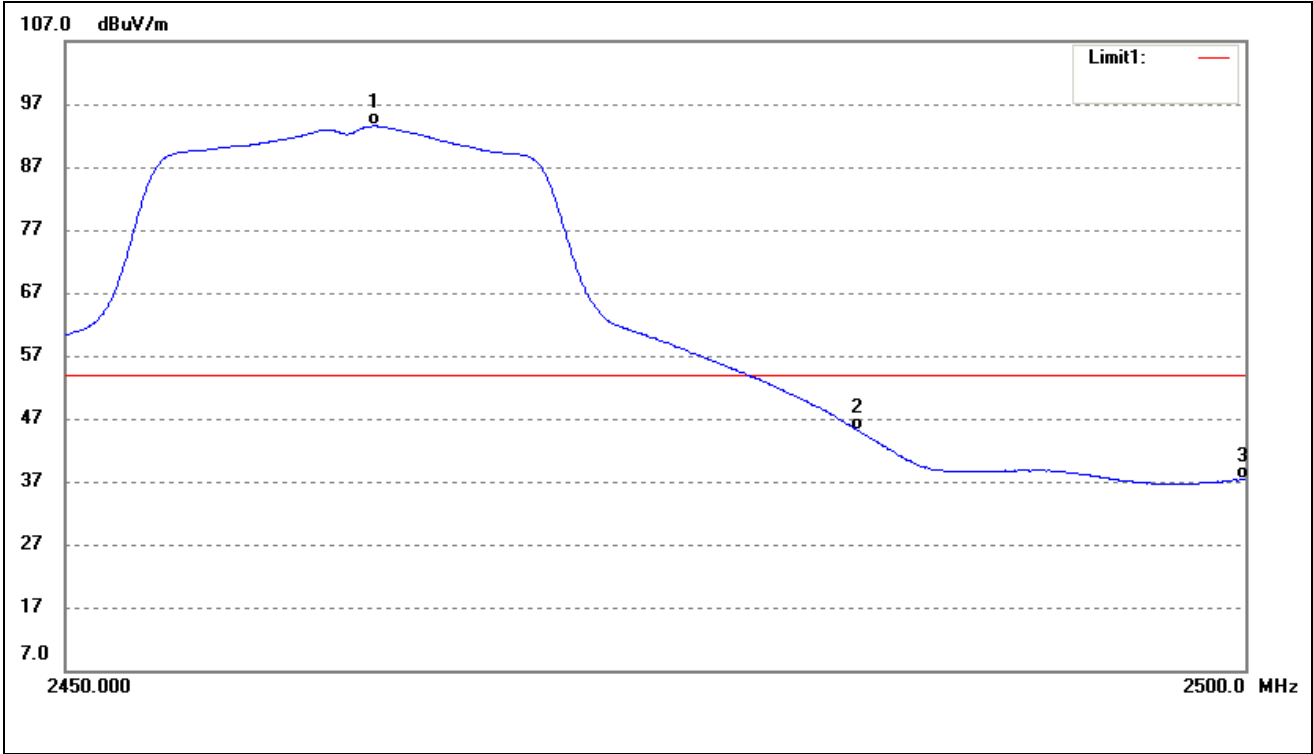


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	38.35	-6.38	31.97	54.00	-22.03	Average Detector
	2310.000	50.30	-6.38	43.92	74.00	-30.08	Peak Detector
2	2390.000	50.38	-7.26	43.12	54.00	-10.88	Average Detector
	2390.000	72.58	-7.26	65.32	74.00	-8.68	Peak Detector
3	2412.954	97.78	-7.40	90.38	/	/	Average Detector
	2415.644	108.20	-7.39	100.81	/	/	Peak Detector



802.11g-Highest Bandedge

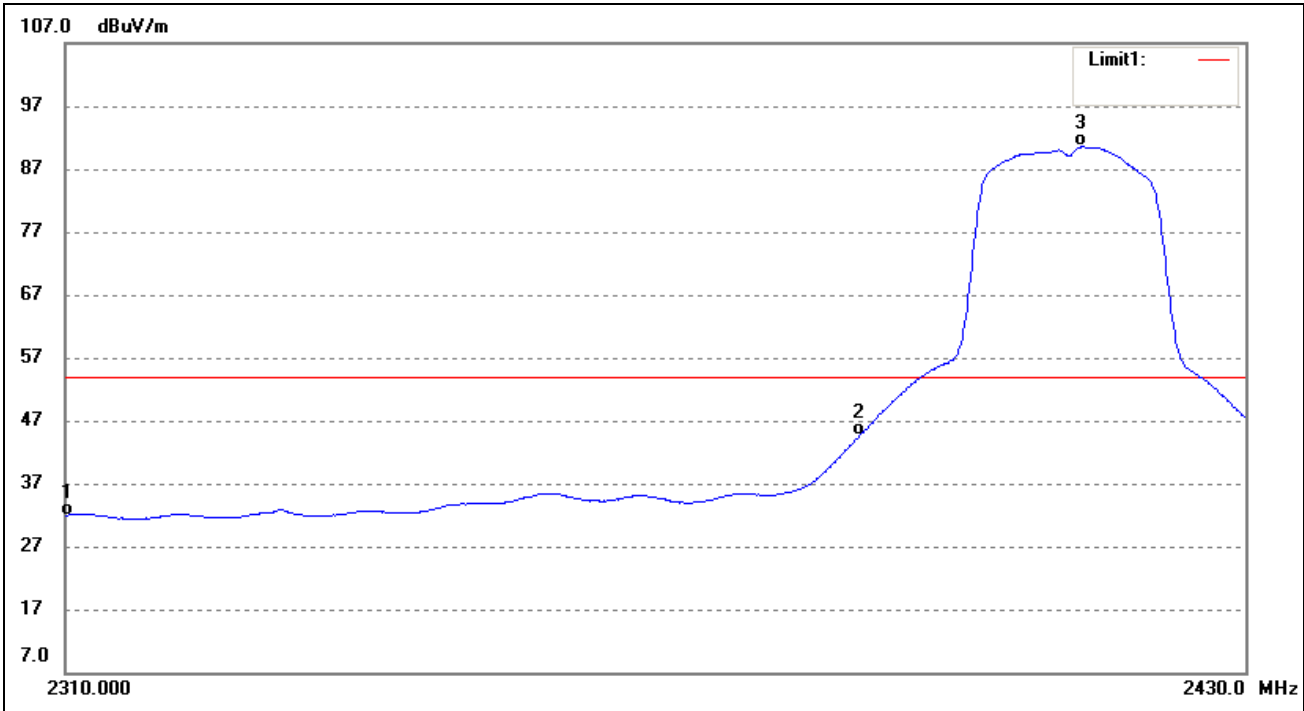
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.003	100.84	-7.31	93.53	/	/	Average Detector
	2463.401	110.30	-7.31	102.99	/	/	Peak Detector
2	2483.500	52.30	-7.28	45.02	54.00	-8.98	Average Detector
	2483.500	68.32	-7.28	61.04	74.00	-12.96	Peak Detector
3	2500.000	44.61	-7.25	37.36	54.00	-16.64	Average Detector
	2500.000	55.46	-7.25	48.21	74.00	-25.79	Peak Detector

802.11n-HT20-Lowest Bandedge

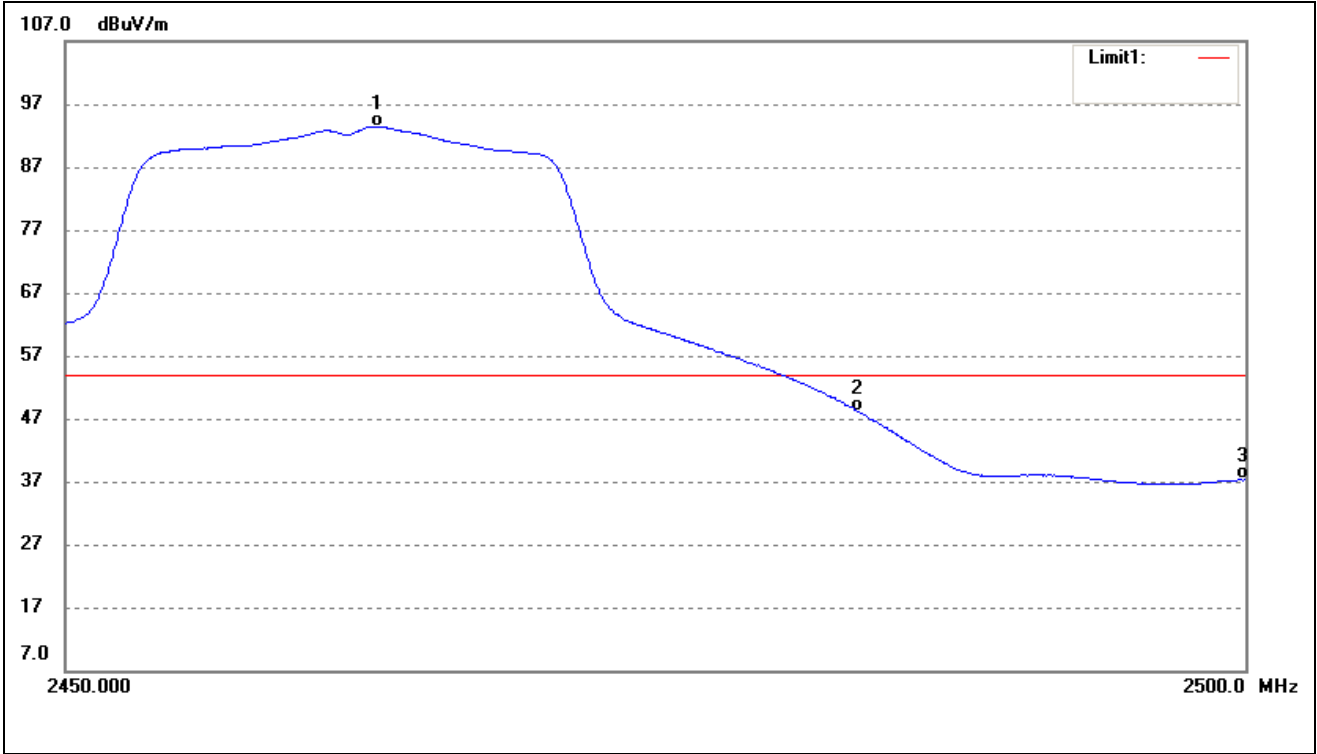
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	38.33	-6.38	31.95	54.00	-22.05	Average Detector
	2310.000	48.95	-6.38	42.57	74.00	-31.43	Peak Detector
2	2390.000	51.86	-7.26	44.60	54.00	-9.40	Average Detector
	2390.000	71.72	-7.26	64.46	74.00	-9.54	Peak Detector
3	2412.954	97.94	-7.40	90.54	/	/	Average Detector
	2413.443	107.62	-7.40	100.22	/	/	Peak Detector

802.11n-HT20-Highest Bandedge

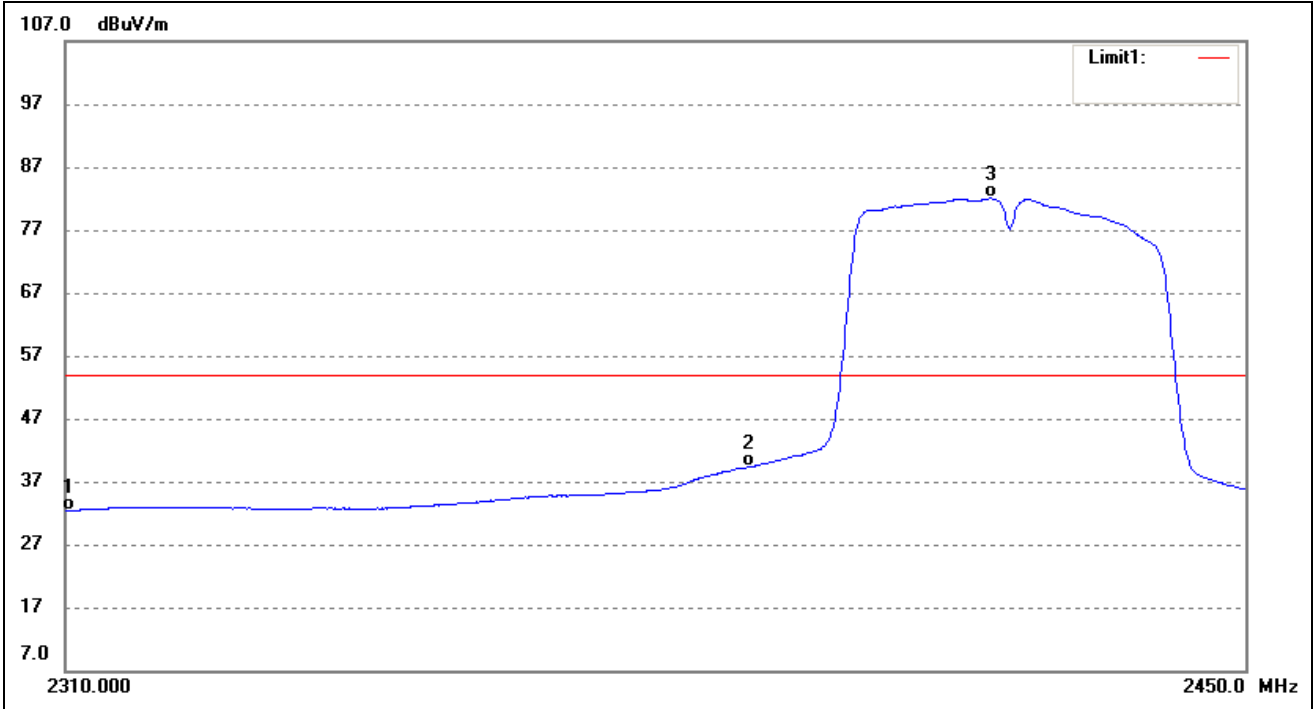
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.102	100.78	-7.31	93.47	/	/	Average Detector
	2463.301	110.76	-7.31	103.45	/	/	Peak Detector
2	2483.500	55.31	-7.28	48.03	54.00	-5.97	Average Detector
	2483.500	73.41	-7.28	66.13	74.00	-7.87	Peak Detector
3	2500.000	44.52	-7.25	37.27	54.00	-16.73	Average Detector
	2500.000	55.57	-7.25	48.32	74.00	-25.68	Peak Detector

802.11n-HT40-Lowest Bandedge

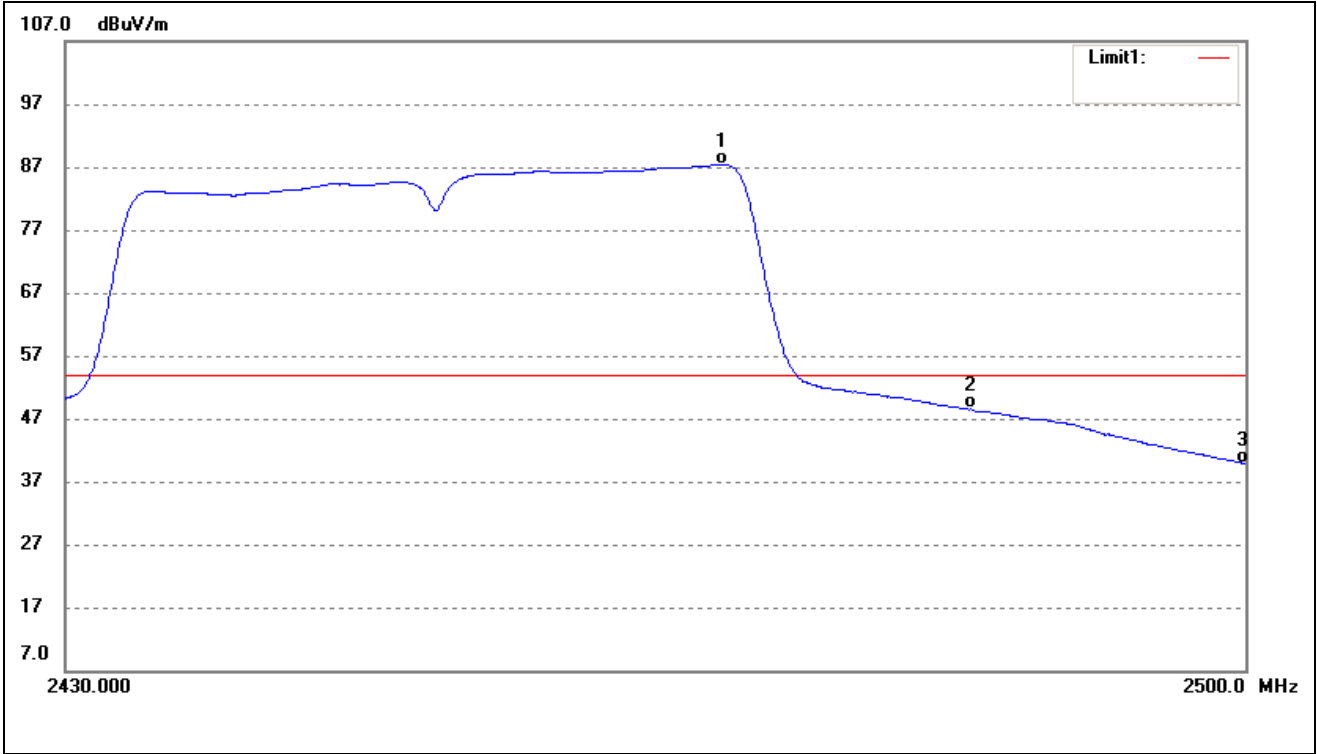
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	38.72	-6.38	32.34	54.00	-21.66	Average Detector
	2310.000	45.36	-6.38	38.98	74.00	-35.02	Peak Detector
2	2390.000	46.58	-7.26	39.32	54.00	-14.68	Average Detector
	2390.000	52.83	-7.26	45.57	74.00	-28.43	Peak Detector
3	2419.059	89.44	-7.39	82.05	/	/	Average Detector
	2419.059	101.72	-7.39	94.33	/	/	Peak Detector

802.11n-HT40-Highest Bandedge

Vertical (Worst case)

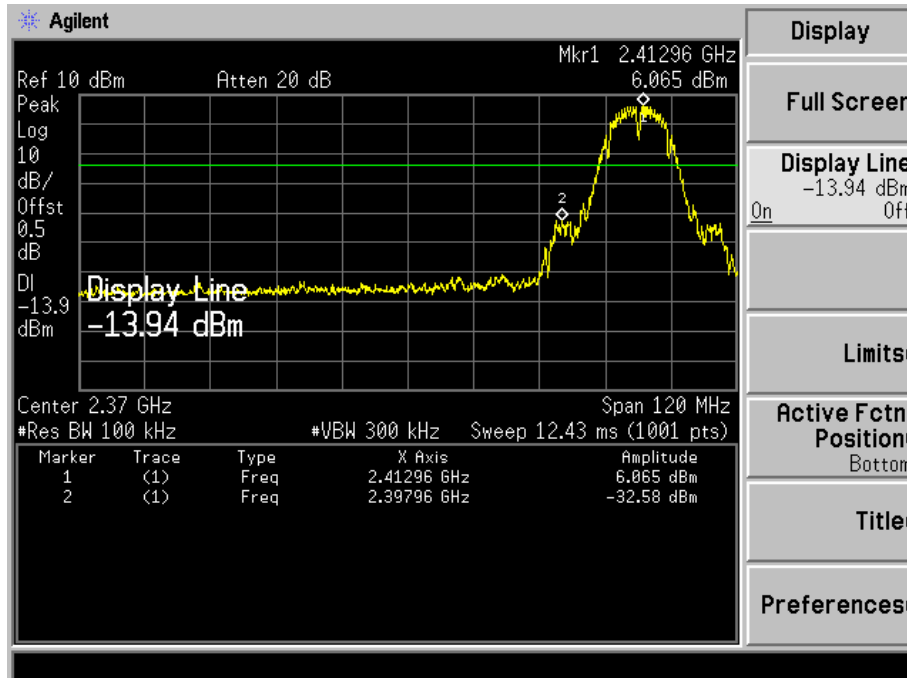


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2468.675	94.68	-7.30	87.38	/	/	Average Detector
	2468.675	106.02	-7.3	98.72	/	/	Peak Detector
2	2483.500	55.80	-7.28	48.52	54.00	-5.48	Average Detector
	2483.500	64.29	-7.28	57.01	74.00	-16.99	Peak Detector
3	2500.000	47.08	-7.25	39.83	54.00	-14.17	Average Detector
	2500.000	55.7	-7.25	48.45	74.00	-25.55	Peak Detector

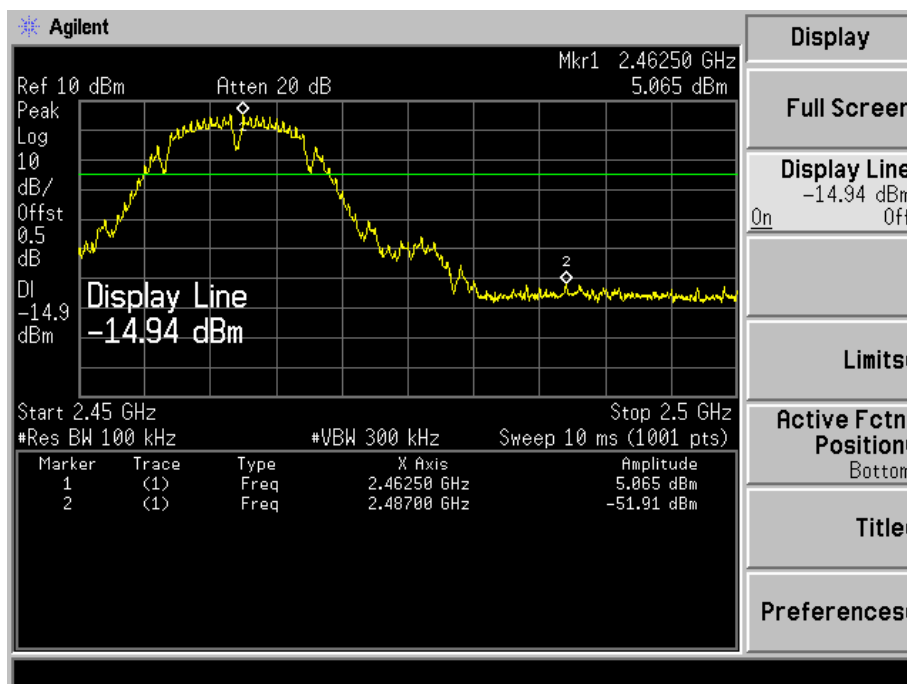
Out of Bandedge (Conducted)

802.11b-Lowest

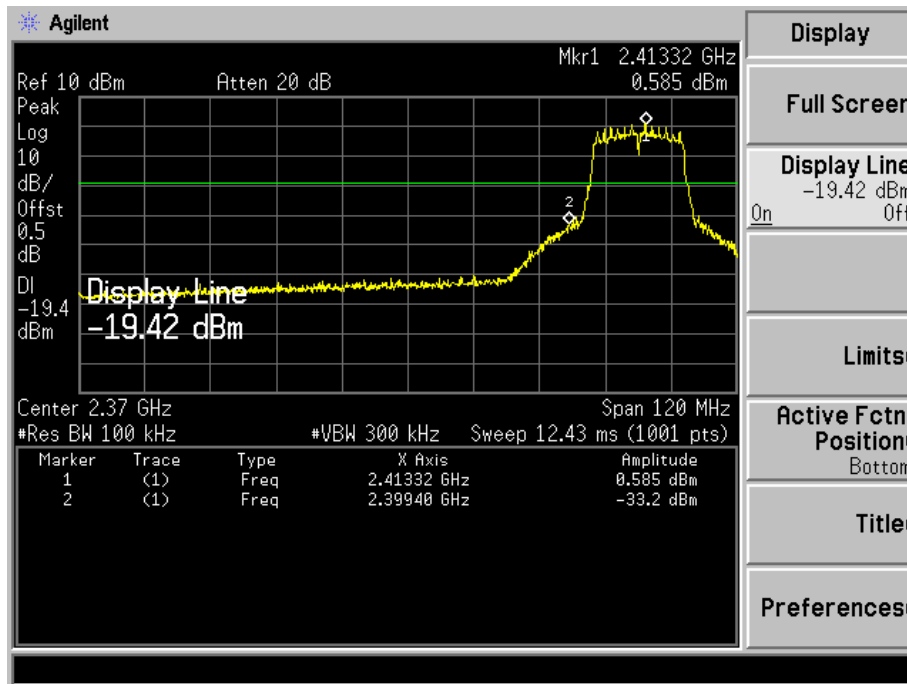
Lowest



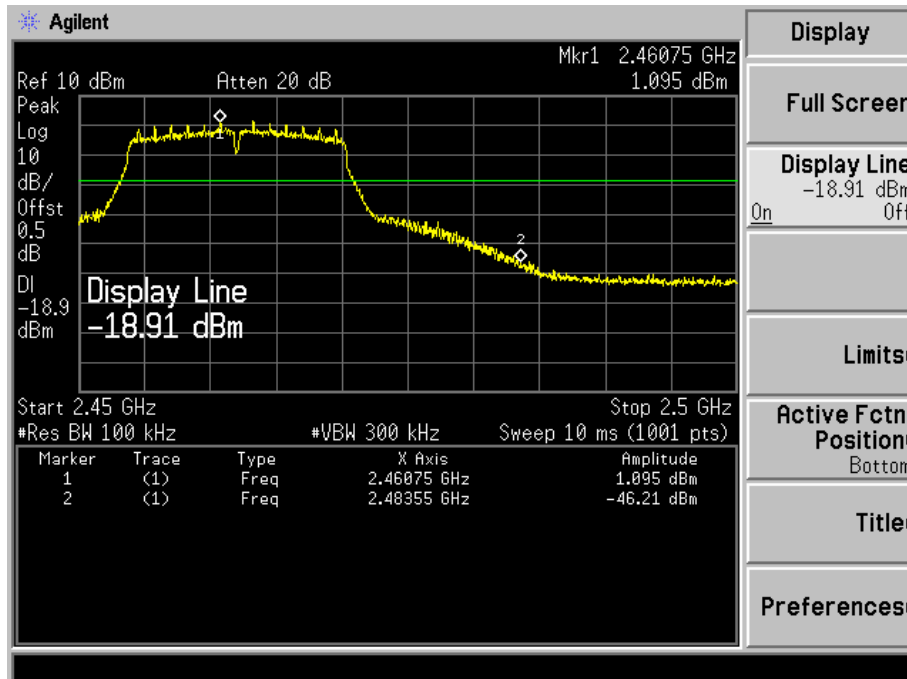
Highest



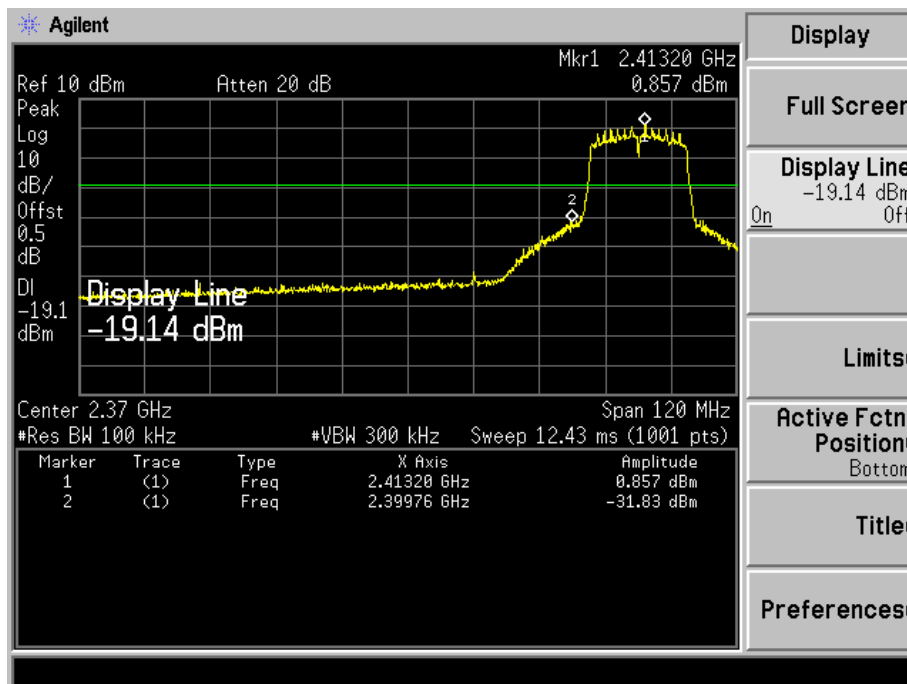
802.11g-Lowest  
Lowest



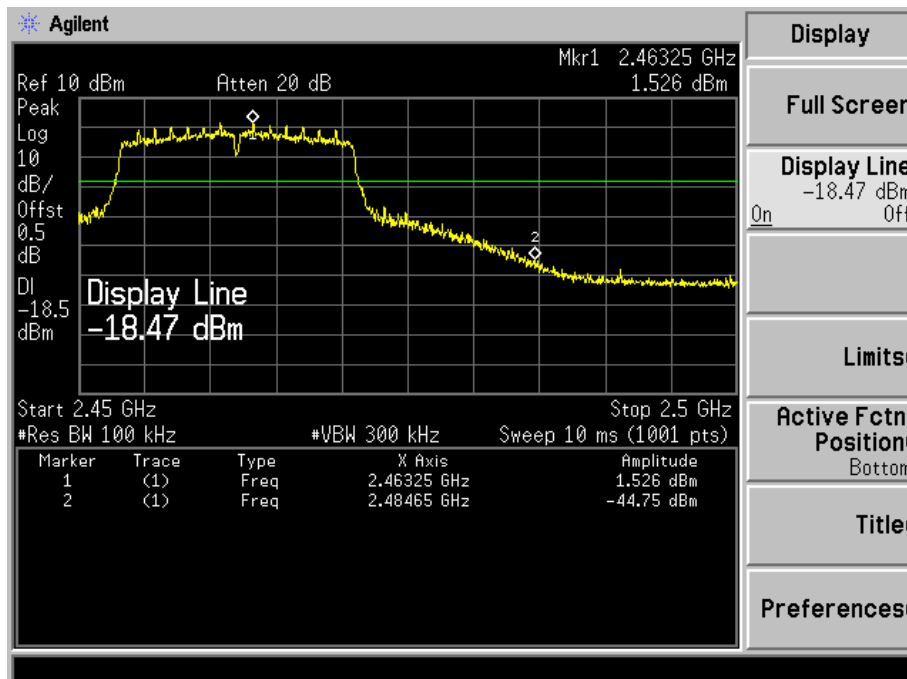
Highest



802.11n-HT20-Lowest  
Lowest

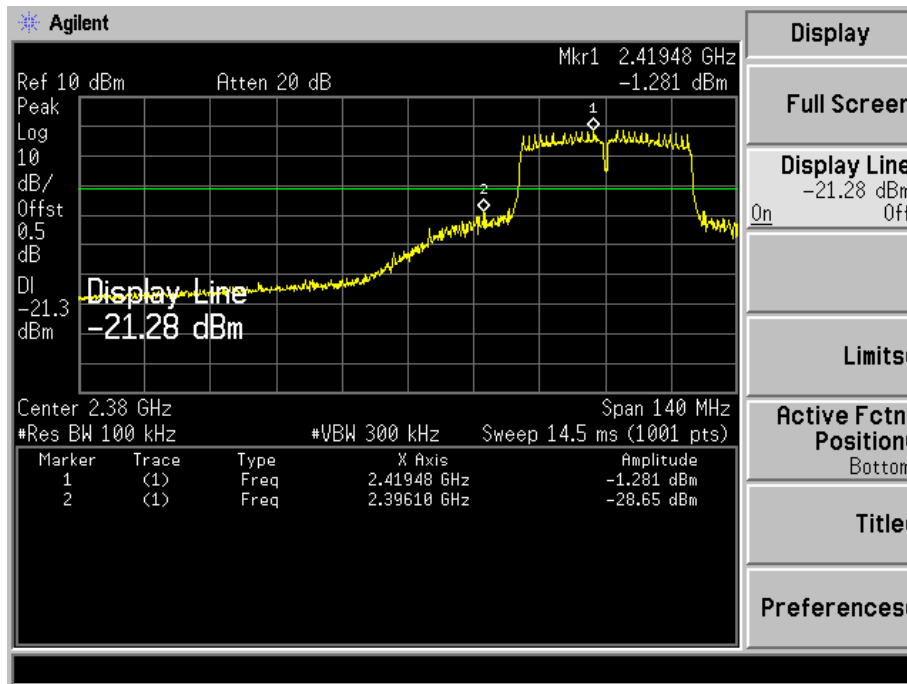


Highest

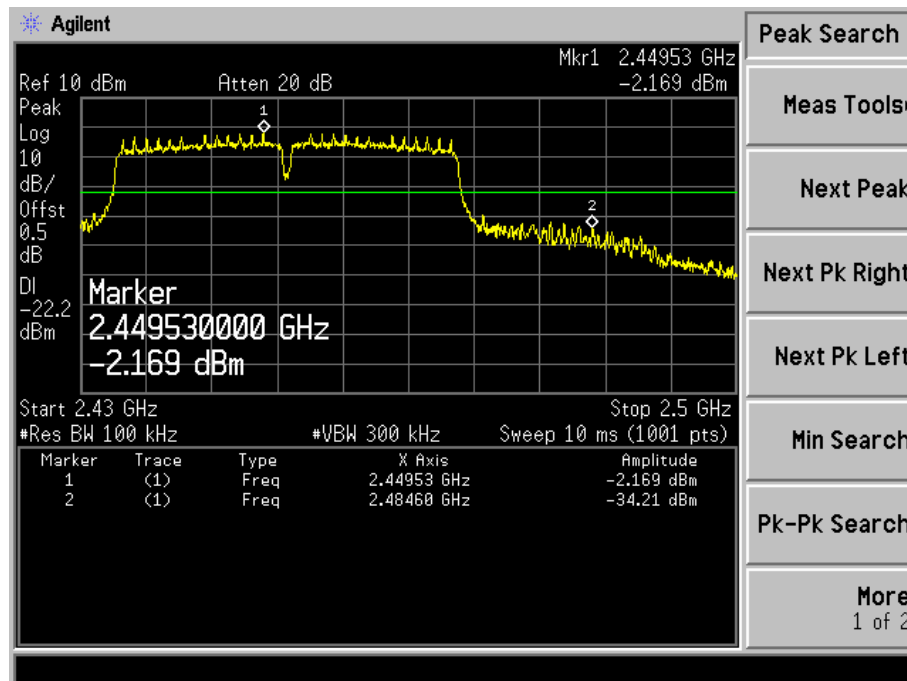




802.11n-HT40-Lowest  
Lowest



Highest



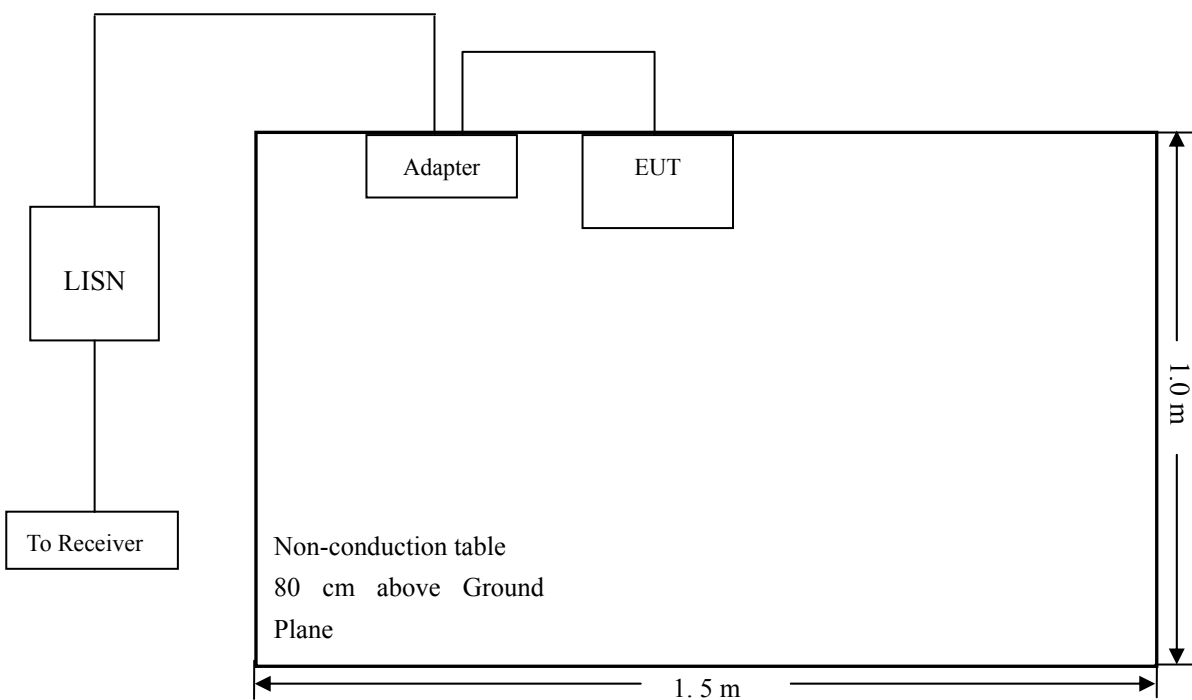
## 10. Conducted Emissions

### 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:

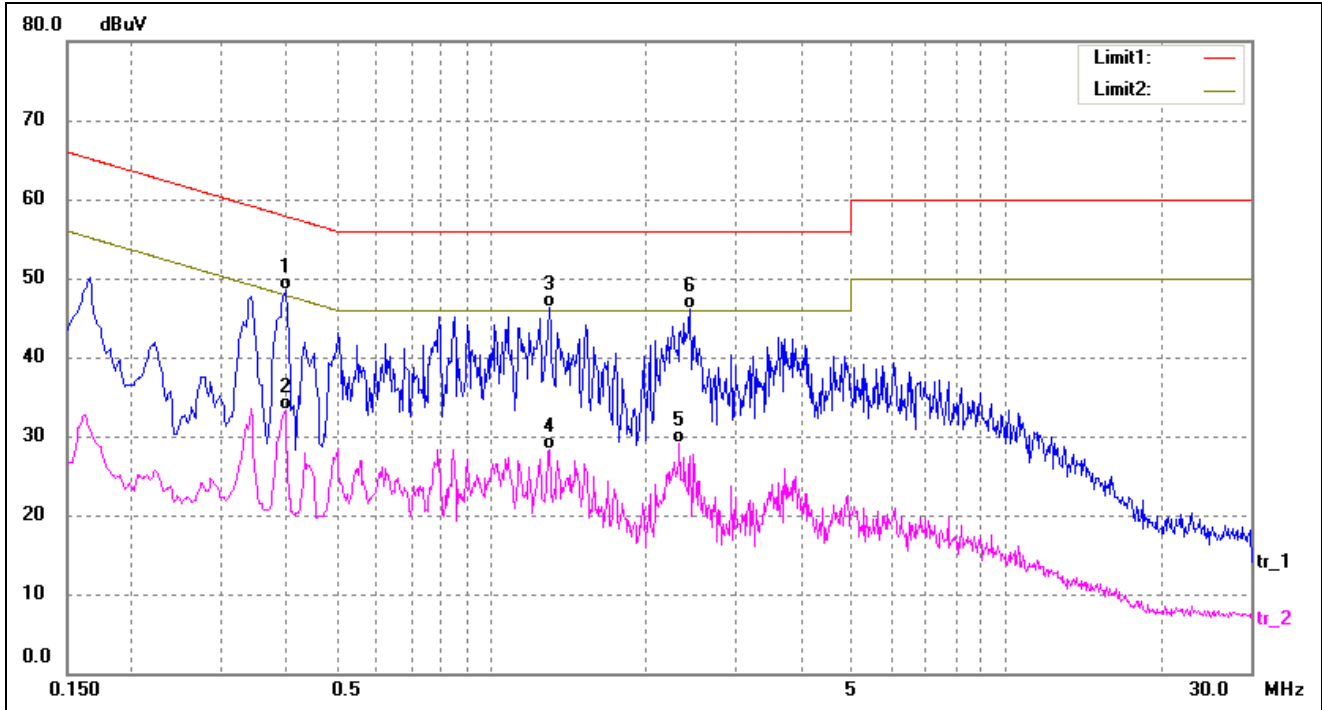
**-8.01 dB at 2.4060 MHz in the Line mode, QP detector, 0.15-30MHz**

## 10.6 Conducted Emissions Test Data

**Plot of Conducted Emissions Test Data**

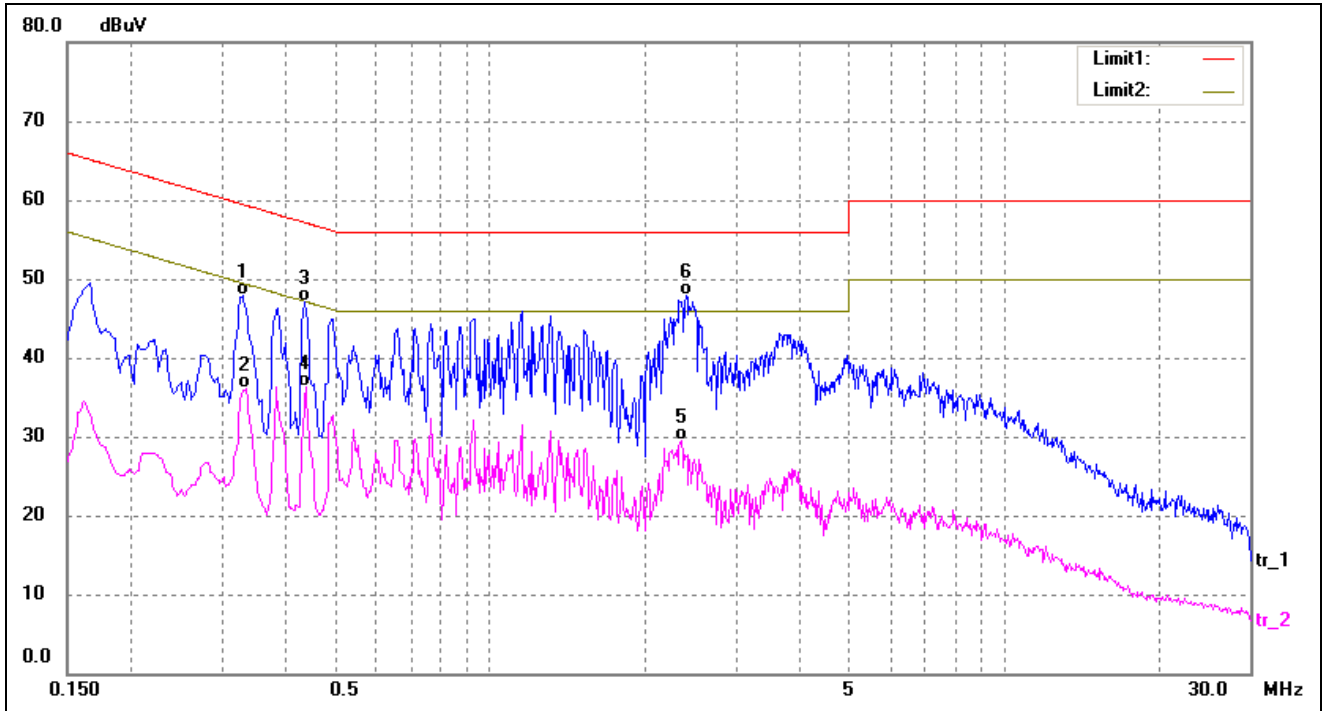
EUT: *Monkey II LTE*  
 Tested Model: *PL5003*  
 Operating Condition: *Transmitting(Wi-Fi)*  
 Comment: *AC 120V/60Hz; Adapter DC 5V*

Test Specification: *Neutral*



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.3980	38.67	9.80	48.47	57.90	-9.43	QP
2	0.3980	23.54	9.80	33.34	47.90	-14.56	AVG
3	1.3020	36.55	9.75	46.30	56.00	-9.70	QP
4	1.3020	18.64	9.75	28.39	46.00	-17.61	AVG
5	2.3300	19.36	9.73	29.09	46.00	-16.91	AVG
6	2.4380	36.30	9.72	46.02	56.00	-9.98	QP

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3300	38.16	9.80	47.96	59.45	-11.49	QP
2	0.3340	26.21	9.80	36.01	49.35	-13.34	AVG
3	0.4340	37.40	9.80	47.20	57.18	-9.98	QP
4	0.4380	26.44	9.80	36.24	47.10	-10.86	AVG
5	2.3460	19.73	9.73	29.46	46.00	-16.54	AVG
6*	2.4060	38.27	9.72	47.99	56.00	-8.01	QP

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