

**APPLICATION CERTIFICATION FCC Part 15C  
On Behalf of  
ITALCOM GROUP**

**Wimo  
Model No.: wimo wf**

**FCC ID: YPV-WIMOWF**

Prepared for	:	ITALCOM GROUP
Address	:	1728 Coral Way, Coral Gables, Miami, Florida, United States
Prepared by	:	ACCURATE TECHNOLOGY CO., LTD
Address	:	F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China
Tel: (0755) 26503290		
Fax: (0755) 26503396		
Report Number	:	ATE20120041
Date of Test	:	January 9-12, 2012
Date of Report	:	January 12, 2012

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## Test Report Certification

Applicant : ITALCOM GROUP

Manufacturer : ITALCOM GROUP

EUT Description : Wimo

(A) MODEL NO.: wimo wf

(B) SERIAL NO.: N/A

(C) POWER SUPPLY: DC 3.7V (Li-polymer battery);  
AC 120V/60Hz (Adaptor input)

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247  
ANSI C63.4: 2003**

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test : \_\_\_\_\_ January 9-12, 2012

Prepared by :



\_\_\_\_\_  
(Engineer)

Approved & Authorized Signer :



\_\_\_\_\_  
(Manager)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT : Wimo  
 Model Number : wimo wf  
 Frequency Band : 2412-2462MHz  
 Number of Channels : 11  
 Antenna Gain : 2.62dBi  
 Power Supply : DC 3.7V (Li-polymer battery);  
                   AC 120V/60Hz (Adaptor input)  
 Adapter : Model number: SAPAO5O10US  
                   Input: AC 100-240V; 50/60Hz 0.6A  
                   Output: DC 5V; 2A  
                   Output line: Non-shielded, Non-detachable, 1.4m  
 Data Rate : IEEE 802.11b: 11Mbps  
               IEEE 802.11g: 54Mbps  
               IEEE 802.11n: 150Mbps  
 Applicant : ITALCOM GROUP  
 Address : 1728 Coral Way, Coral Gables, Miami, Florida, United States  
 Manufacturer : ITALCOM GROUP  
 Address : 1728 Coral Way, Coral Gables, Miami, Florida, United States  
 Date of sample received : January 9, 2012  
 Date of Test : January 9-12, 2012

## 1.2.Description of Test Facility

EMC Lab	: Accredited by TUV Rheinland Shenzhen
	Listed by FCC The Registration Number is 752051
	Listed by Industry Canada The Registration Number is 5077A-2
	Accredited by China National Accreditation Committee for Laboratories The Certificate Registration Number is L3193
Name of Firm	: ACCURATE TECHNOLOGY CO. LTD
Site Location	: F1, Bldg. A, Changyuan New Material Port, Keyuan Rd. Science & Industry Park, Nanshan, Shenzhen, Guangdong P.R. China

## 1.3.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2  
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2  
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2  
(Above 1GHz)

## 2. MEASURING DEVICE AND TEST EQUIPMENT

**Table 1: List of Test and Measurement Equipment**

Kind of equipment	Manufacturer	Type	S/N	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 15, 2012
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 15, 2012
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 15, 2012
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 15, 2012
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2012
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2012
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2012
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 15, 2012
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 15, 2012
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 15, 2012

### 3. OPERATION OF EUT DURING TESTING

#### 3.1. Operating Mode

The mode is used: **802.11b Transmitting mode**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

**802.11g Transmitting mode**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

**802.11n Transmitting mode**

Low Channel: 2412MHz

Middle Channel: 2437MHz

High Channel: 2462MHz

#### 3.2. Configuration and peripherals

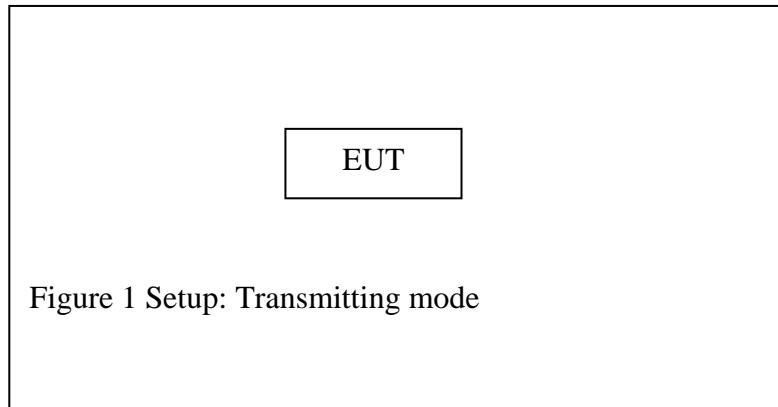


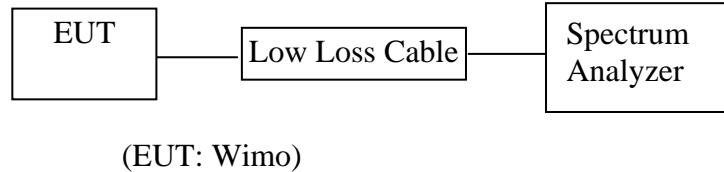
Figure 1 Setup: Transmitting mode

## 4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.247(d)	Conducted Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant

## 5. 6DB BANDWIDTH MEASUREMENT

### 5.1. Block Diagram of Test Setup



### 5.2. The Requirement For Section 15.247(a)(2)

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

### 5.3. EUT Configuration on Measurement

The following equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 5.3.1. Wimo (EUT)

Model Number	:	wimo wf
Serial Number	:	N/A
Manufacturer	:	ITALCOM GROUP

### 5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

## 5.5. Test Procedure

5.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

5.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

5.5.3. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

## 5.6. Test Result

**PASS.**

Date of Test:	January 10, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	DC 3.7V
Test Mode:	TX	Test Engineer:	Pei

The test was performed with 802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	10.98	> 0.5MHz
Middle	2437	10.56	> 0.5MHz
High	2462	10.89	> 0.5MHz

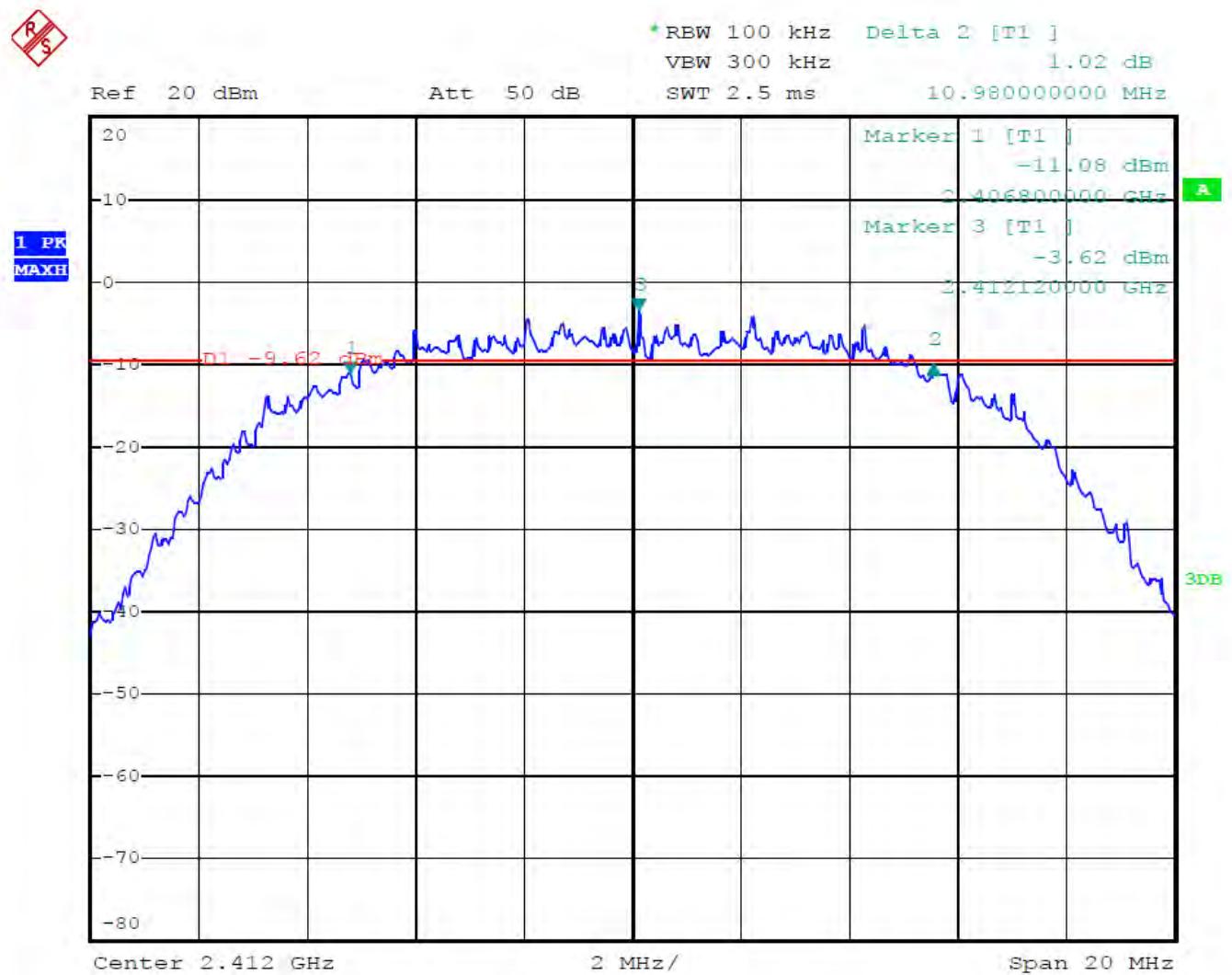
The test was performed with 802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	16.79	> 0.5MHz
Middle	2437	16.25	> 0.5MHz
High	2462	16.56	> 0.5MHz

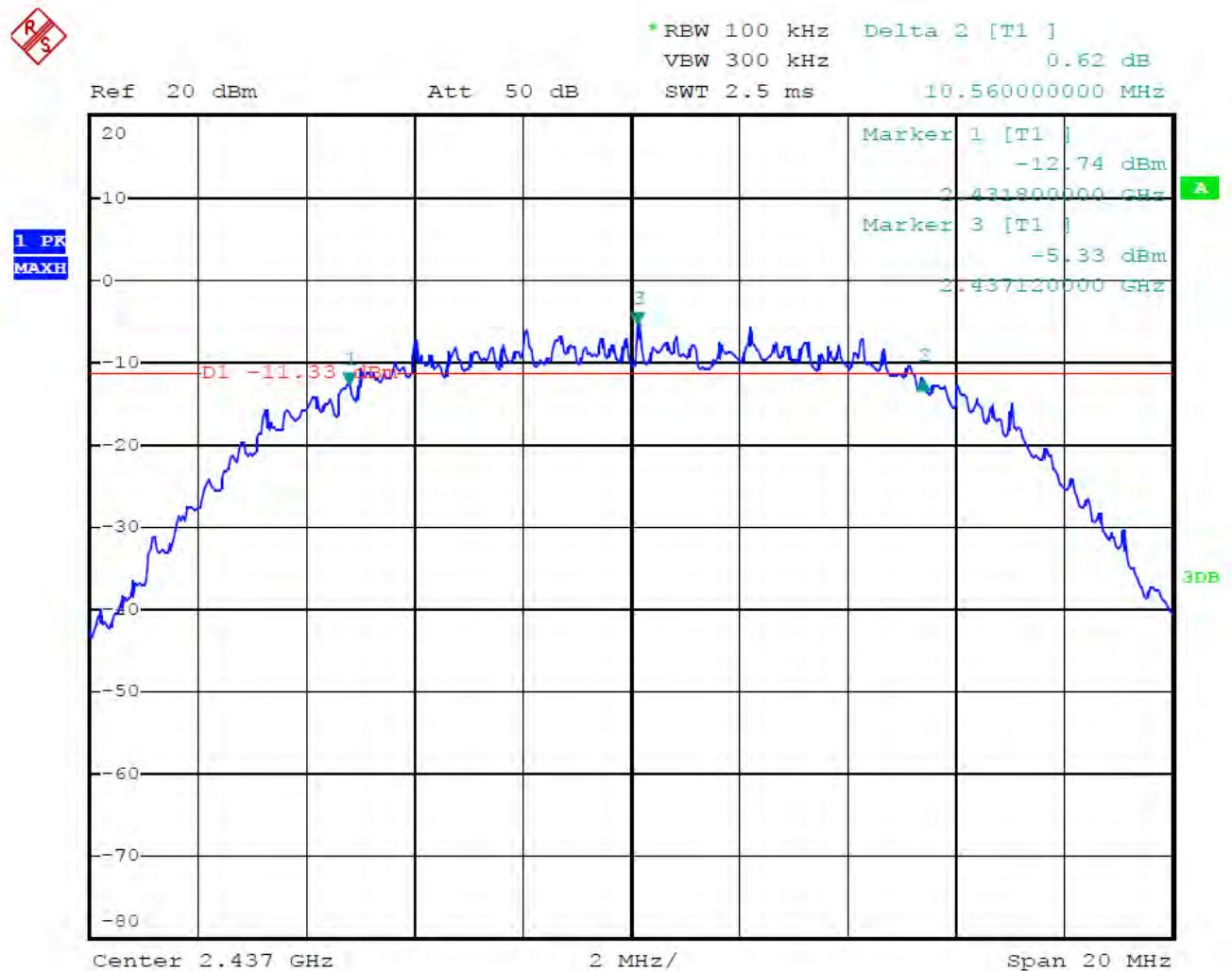
The test was performed with 802.11n			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	17.33	> 0.5MHz
Middle	2437	17.25	> 0.5MHz
High	2462	17.89	> 0.5MHz

The spectrum analyzer plots are attached as below.

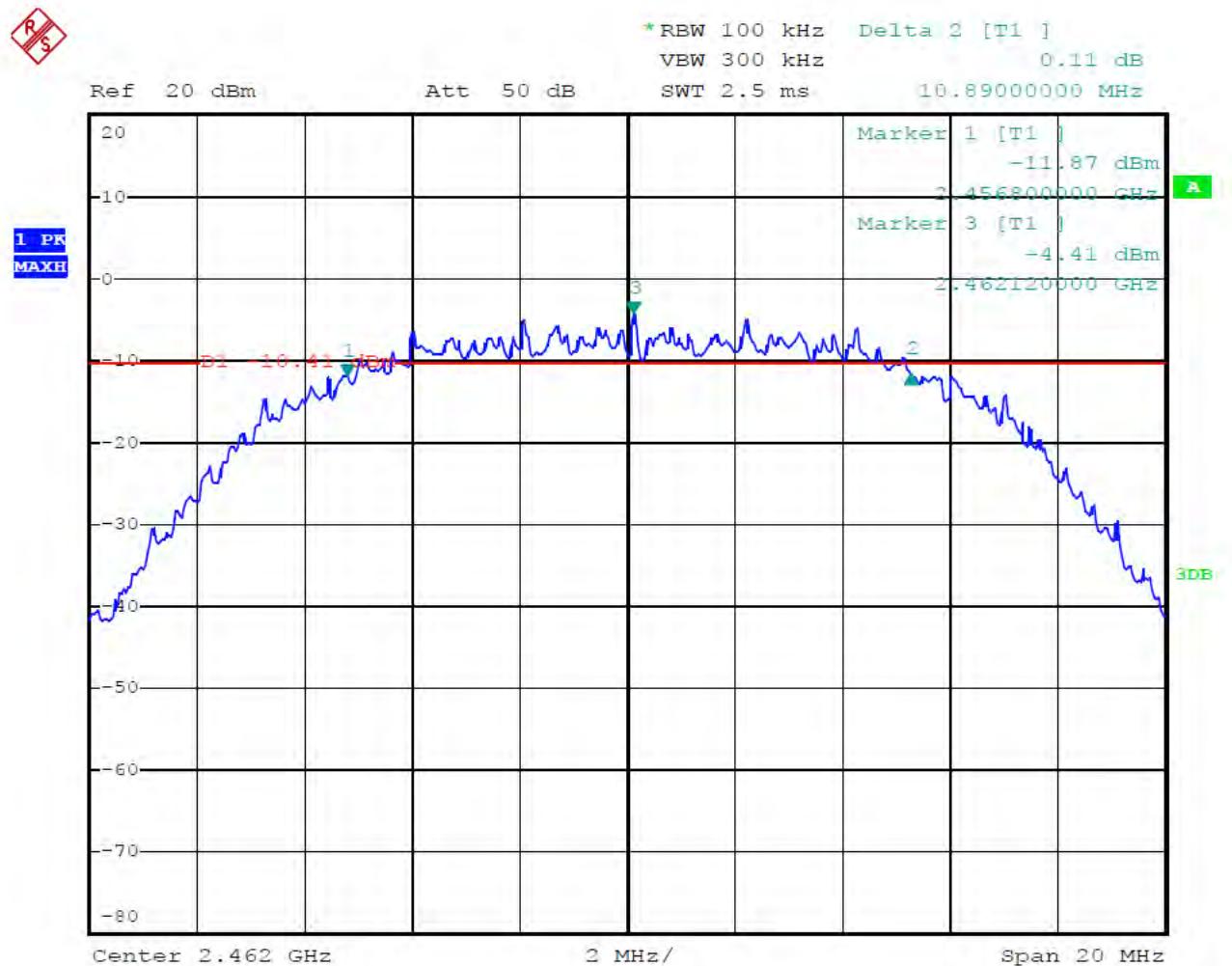
## 802.11b Channel Low 2412MHz



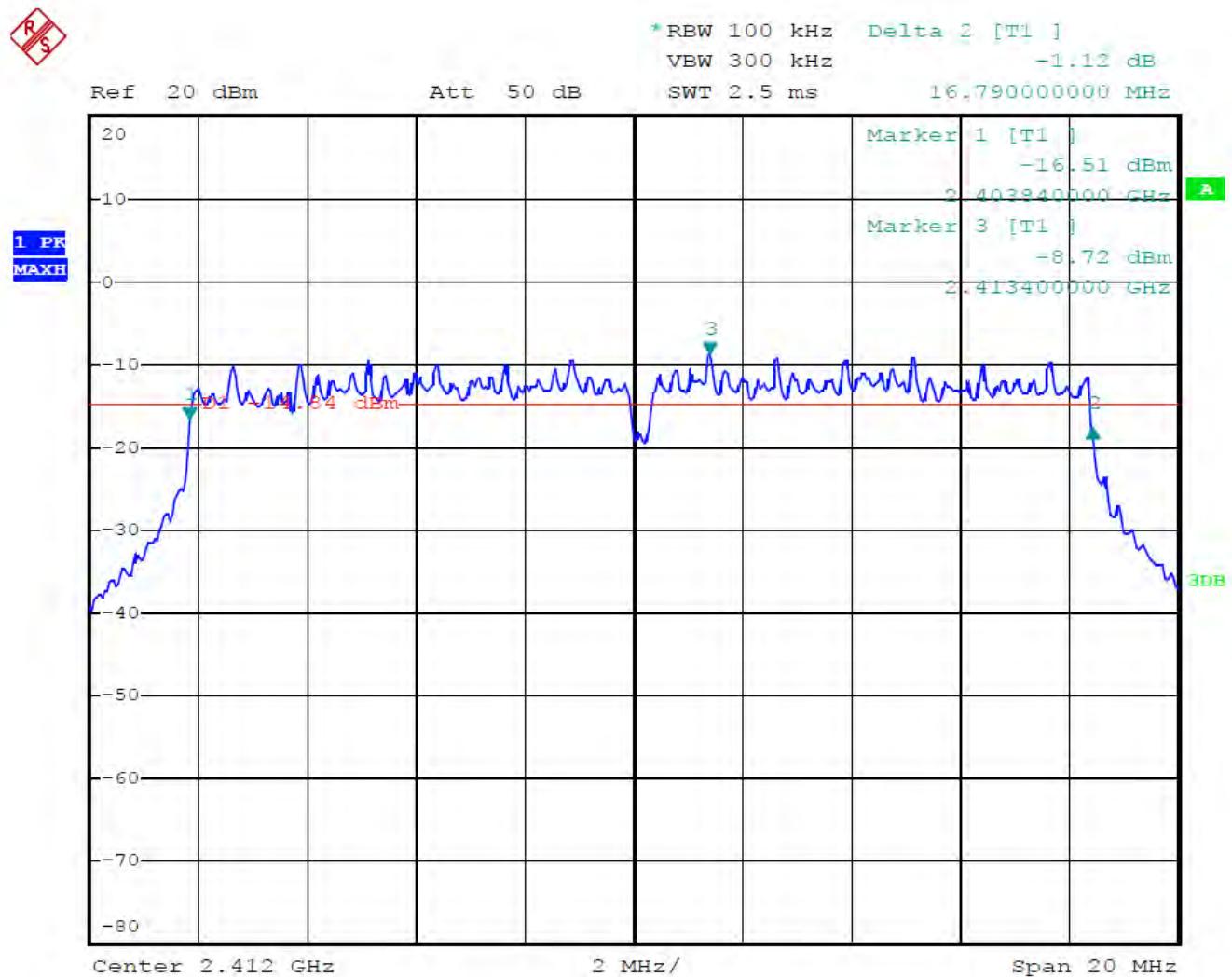
## 802.11b Channel Middle 2437MHz



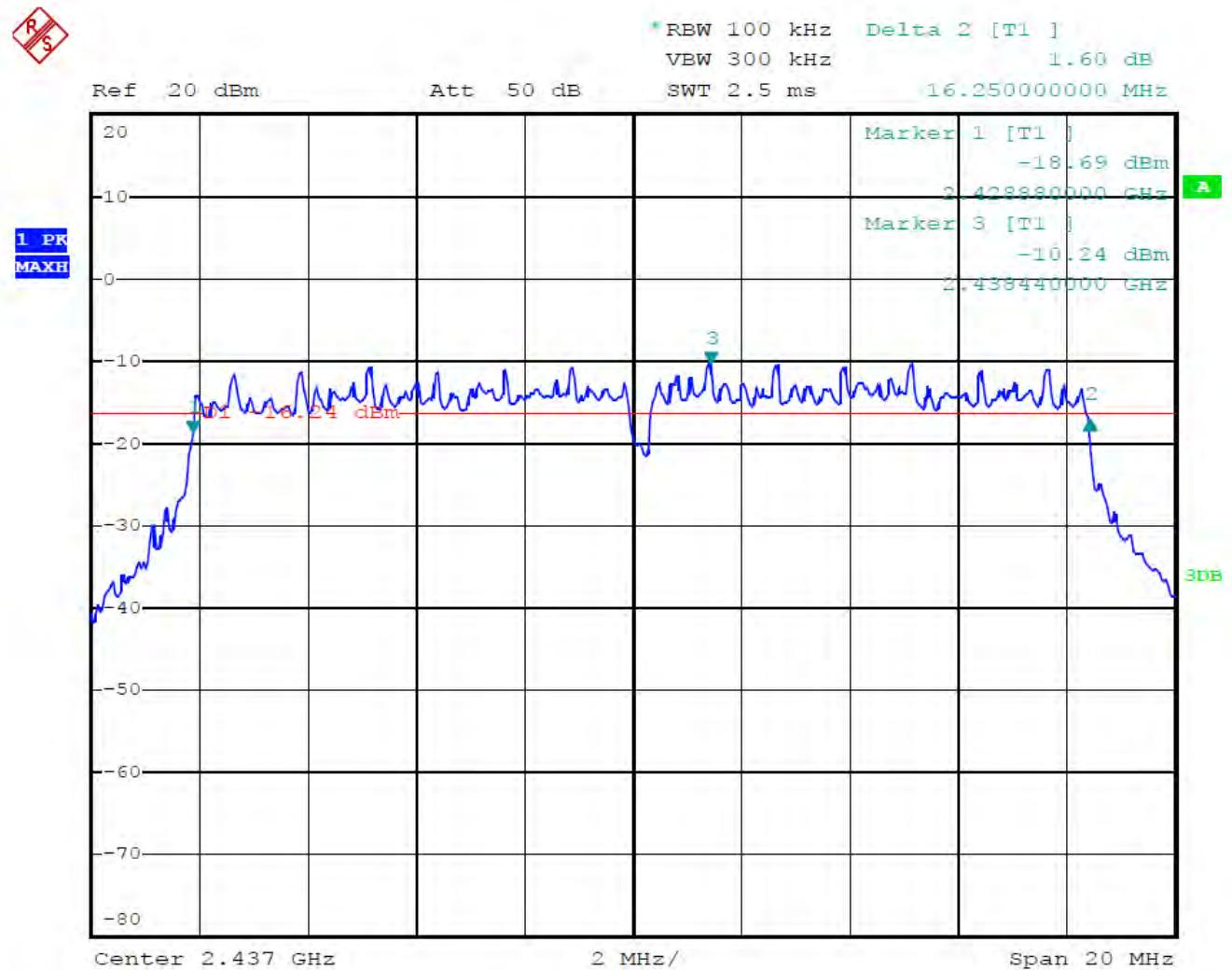
## 802.11b Channel High 2462MHz



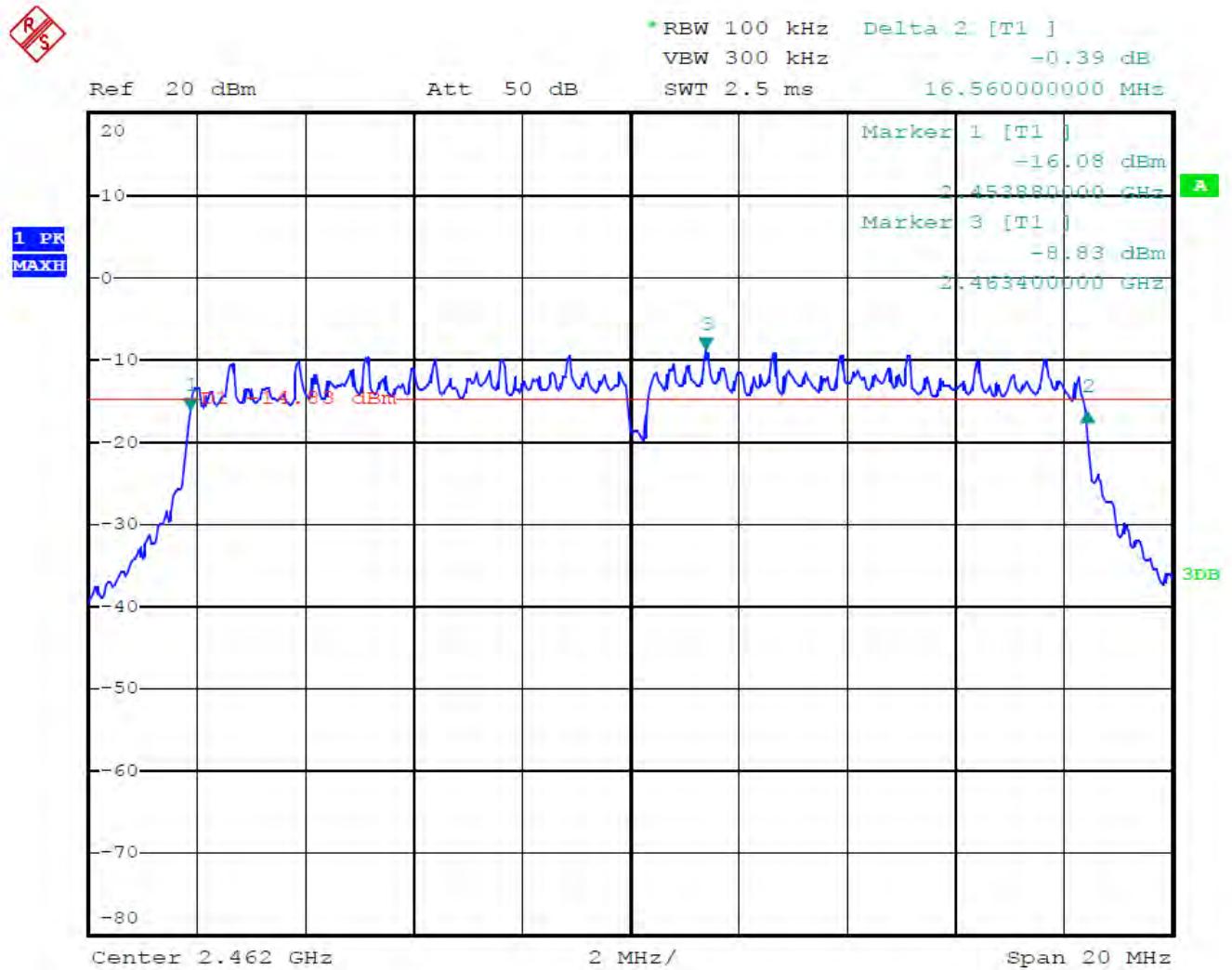
## 802.11g Channel Low 2412MHz



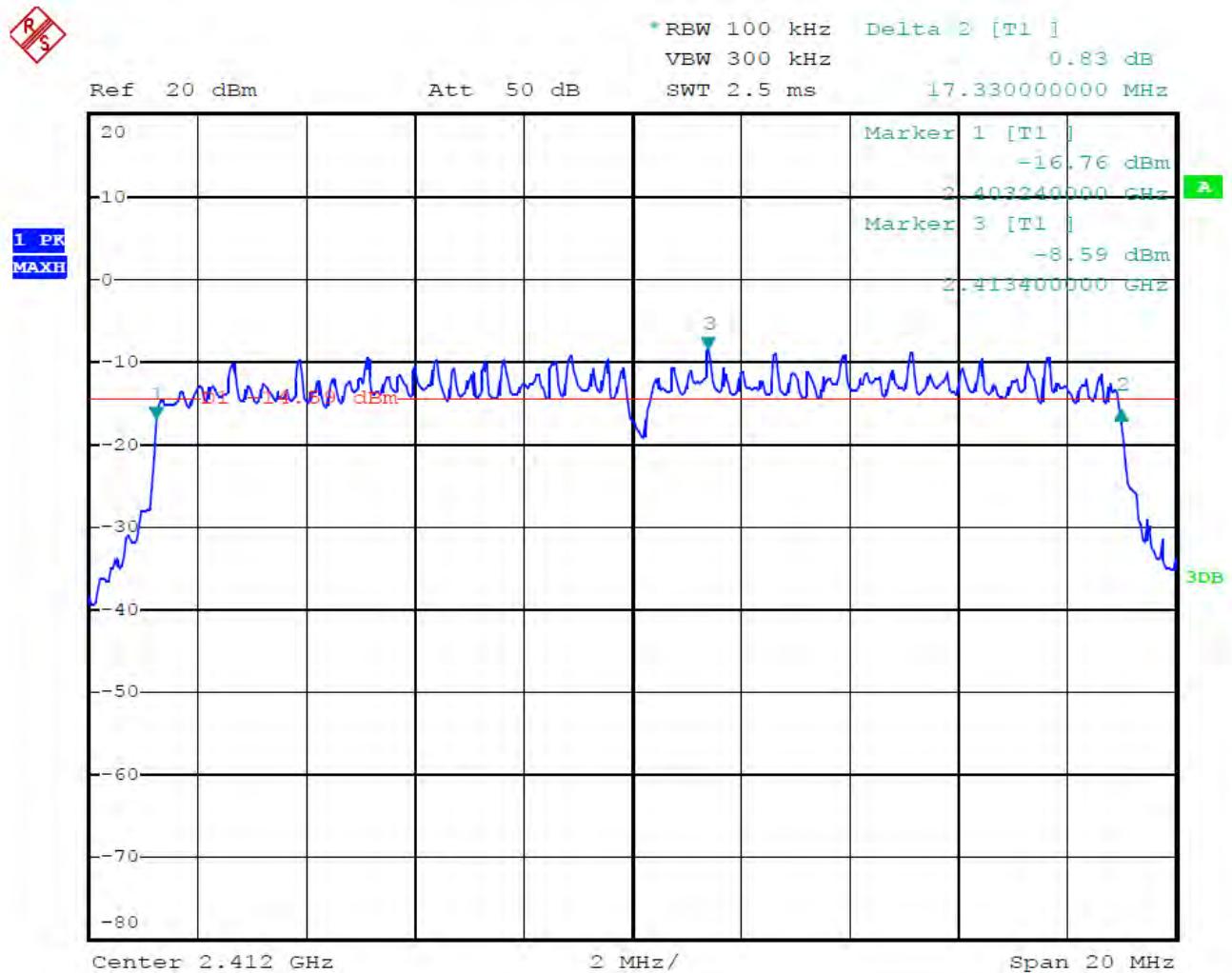
## 802.11g Channel Middle 2437MHz



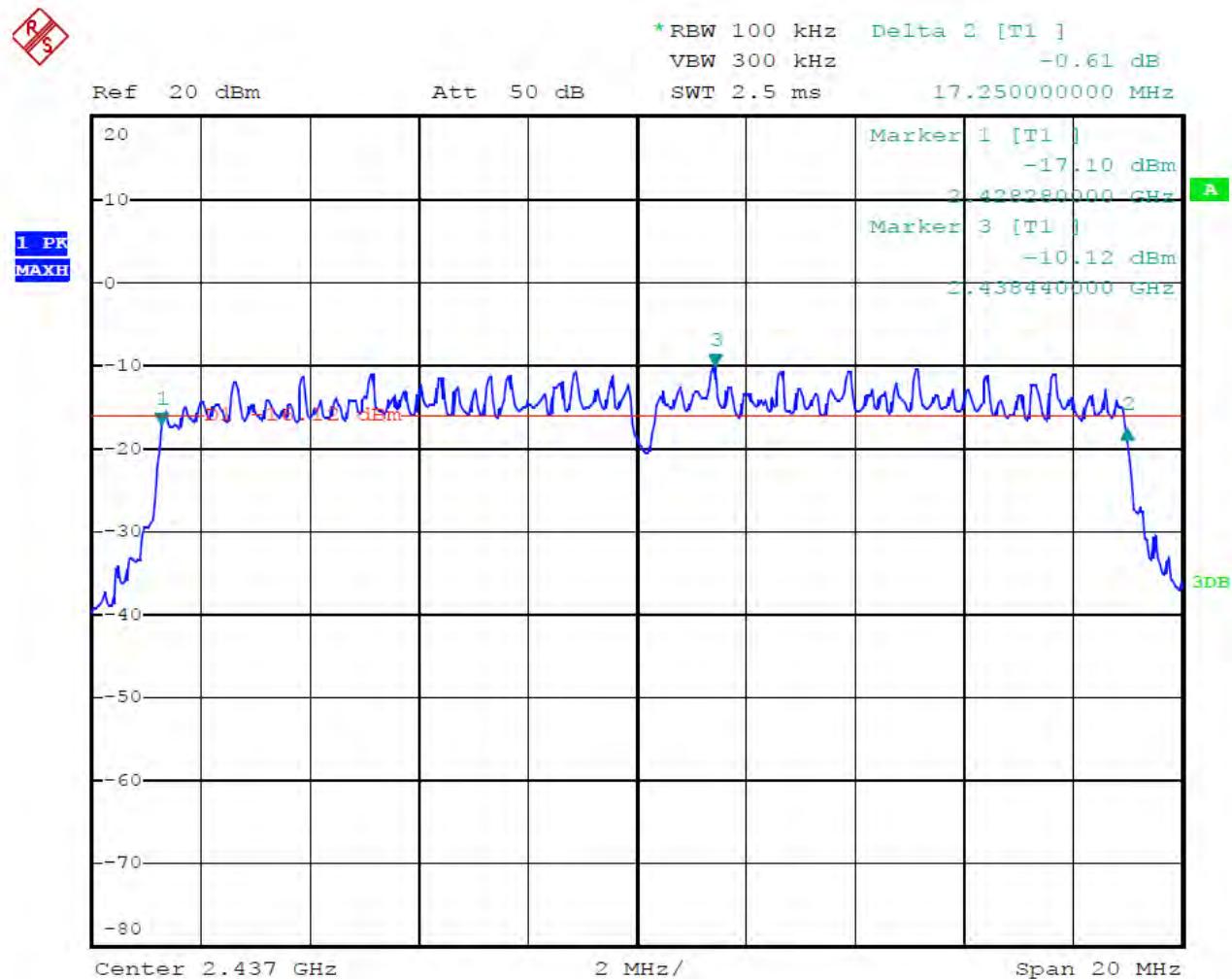
## 802.11g Channel High 2462MHz



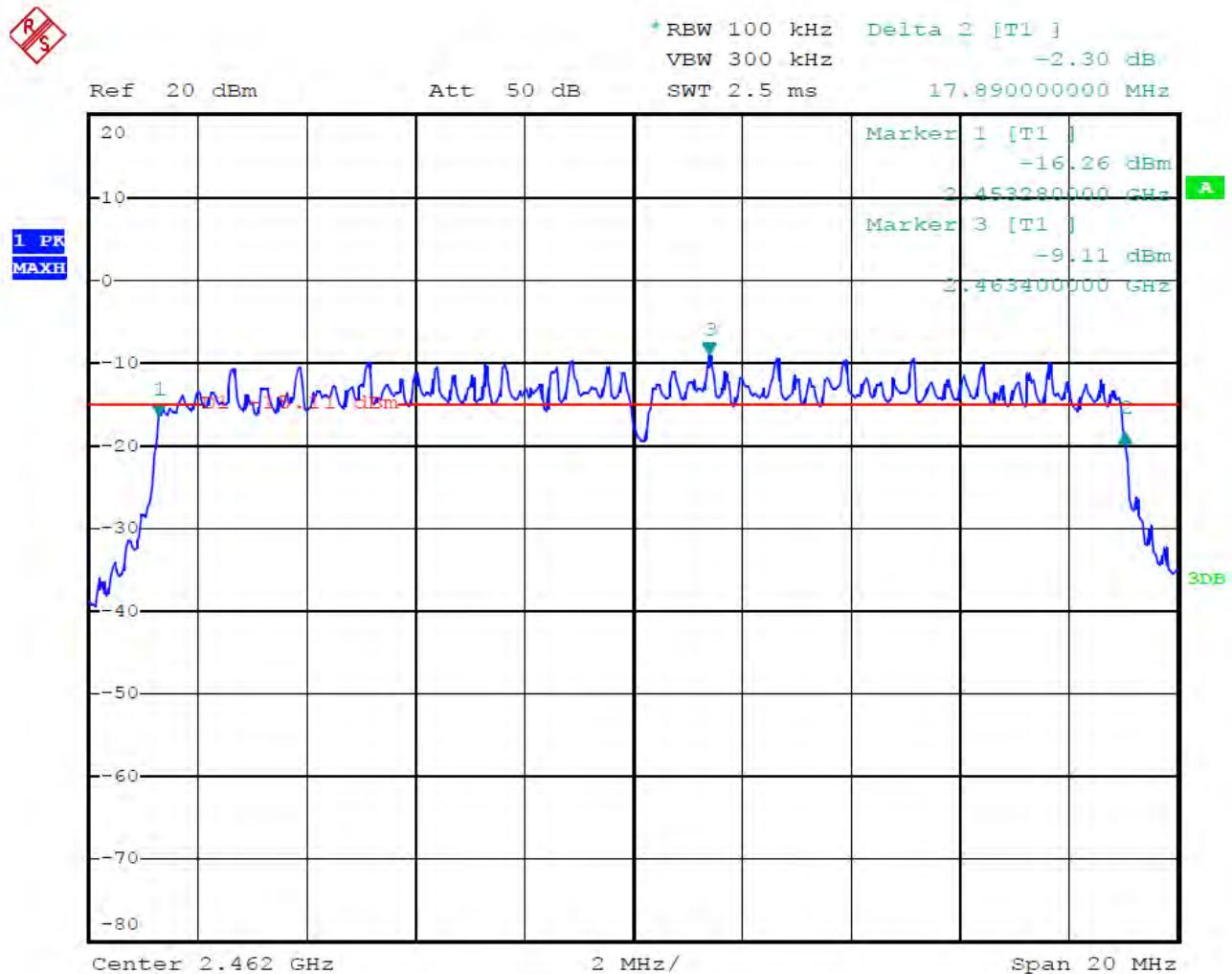
## 802.11n Channel Low 2412MHz



## 802.11n Channel Middle 2437MHz

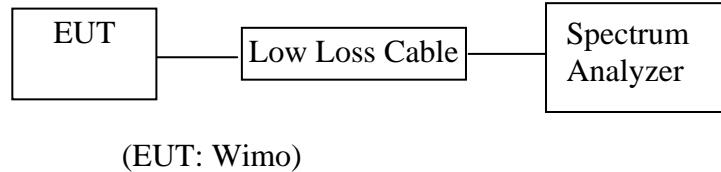


## 802.11n Channel High 2462MHz



## 6. MAXIMUM PEAK OUTPUT POWER

### 6.1. Block Diagram of Test Setup



### 6.2. The Requirement For Section 15.247(b)(3)

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

### 6.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 6.3.1. Wimo (EUT)

Model Number	:	wimo wf
Serial Number	:	N/A
Manufacturer	:	ITALCOM GROUP

### 6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

## 6.5. Test Procedure

6.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.2. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.

6.5.3. Measurement the maximum peak output power.

## 6.6. Test Result

**PASS.**

Date of Test:	January 10, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	DC 3.7V
Test Mode:	TX	Test Engineer:	Pei

The test was performed with 802.11b

Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	10.56	11.38	30 dBm / 1 W
Middle	2437	9.78	9.51	30 dBm / 1 W
High	2462	10.26	10.62	30 dBm / 1 W

The test was performed with 802.11g

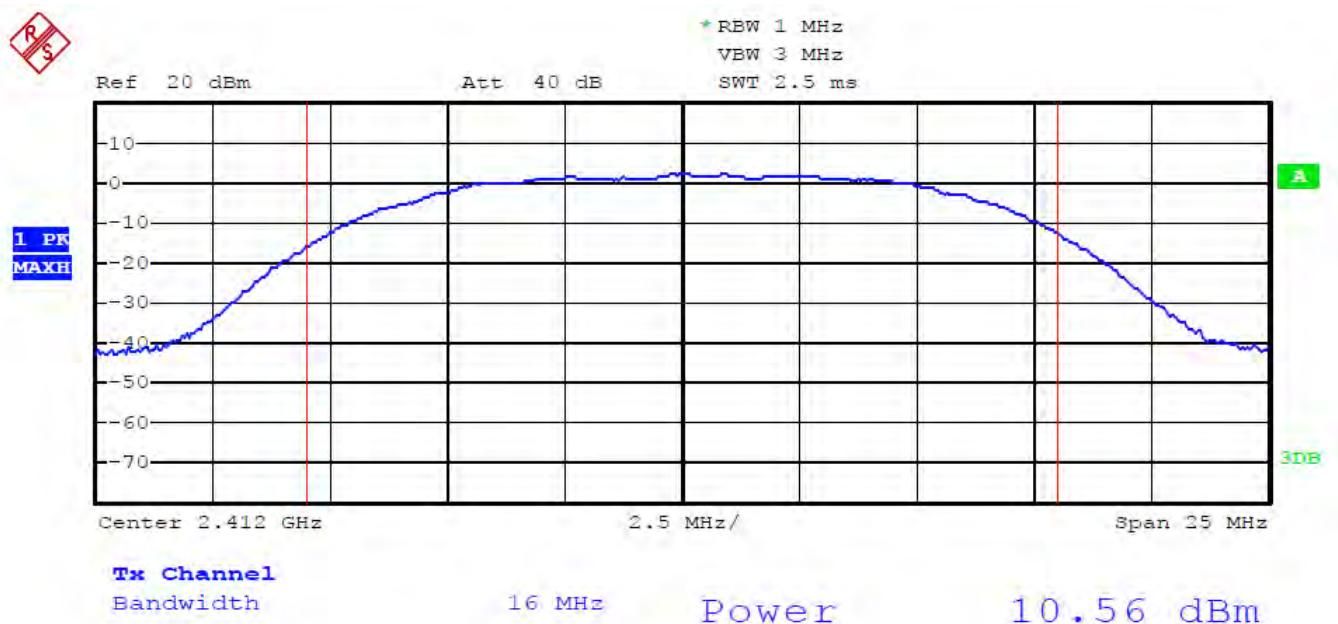
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	10.09	10.21	30 dBm / 1 W
Middle	2437	9.35	8.61	30 dBm / 1 W
High	2462	10.20	10.47	30 dBm / 1 W

The test was performed with 802.11n

Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	9.38	8.67	30 dBm / 1 W
Middle	2437	8.59	7.23	30 dBm / 1 W
High	2462	9.79	9.53	30 dBm / 1 W

The spectrum analyzer plots are attached as below.

## 802.11b Channel Low 2412MHz



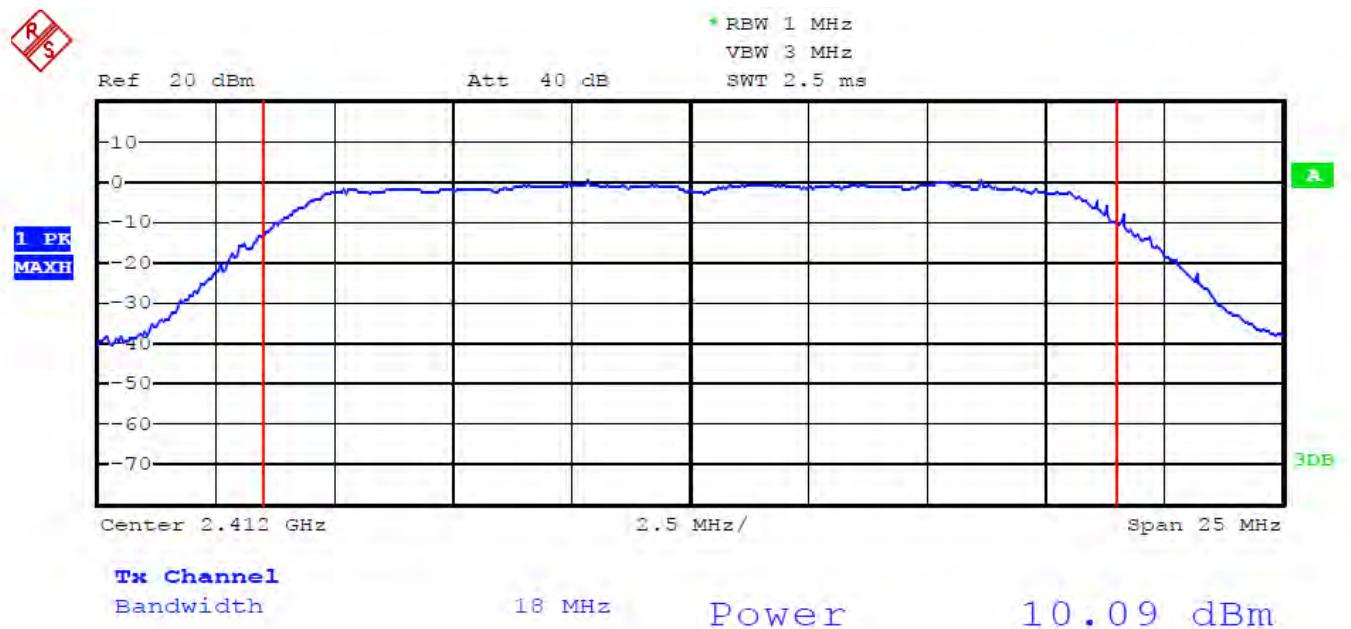
## 802.11b Channel Middle 2437MHz



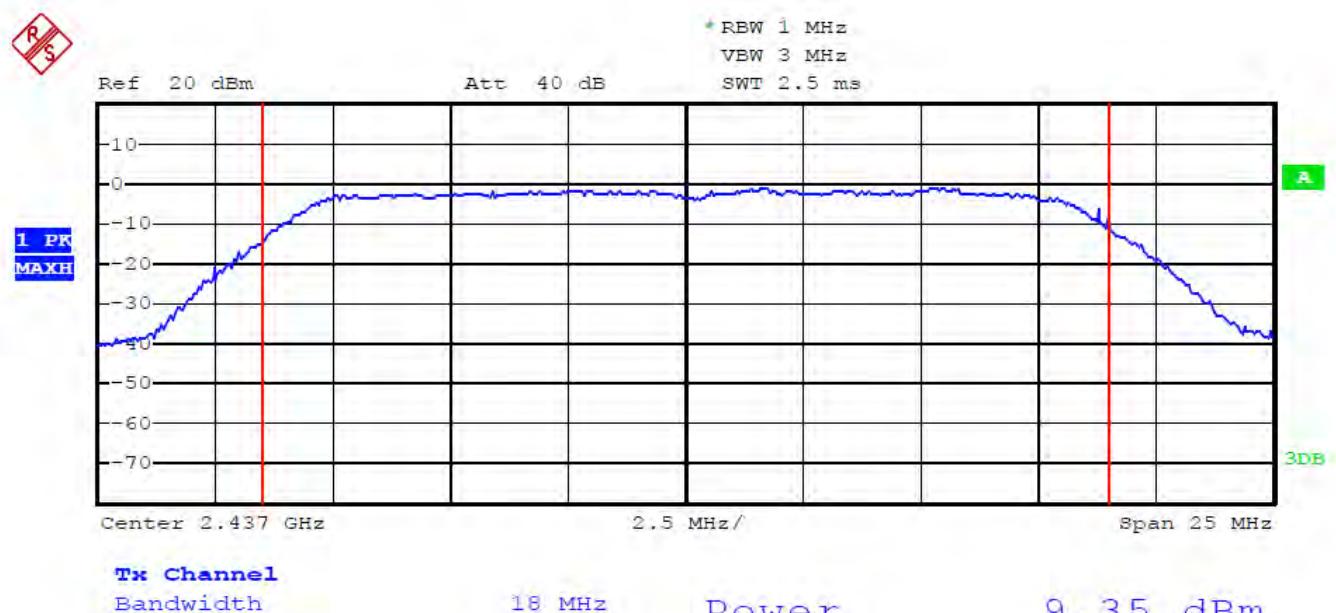
## 802.11b Channel High 2462MHz



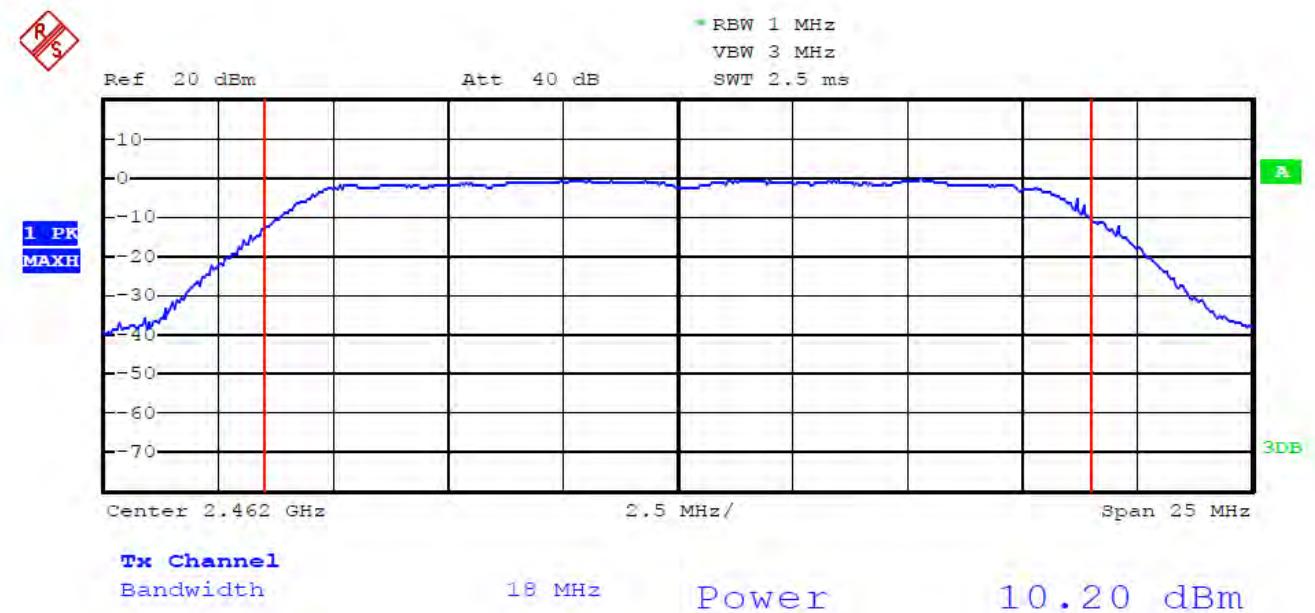
## 802.11g Channel Low 2412MHz



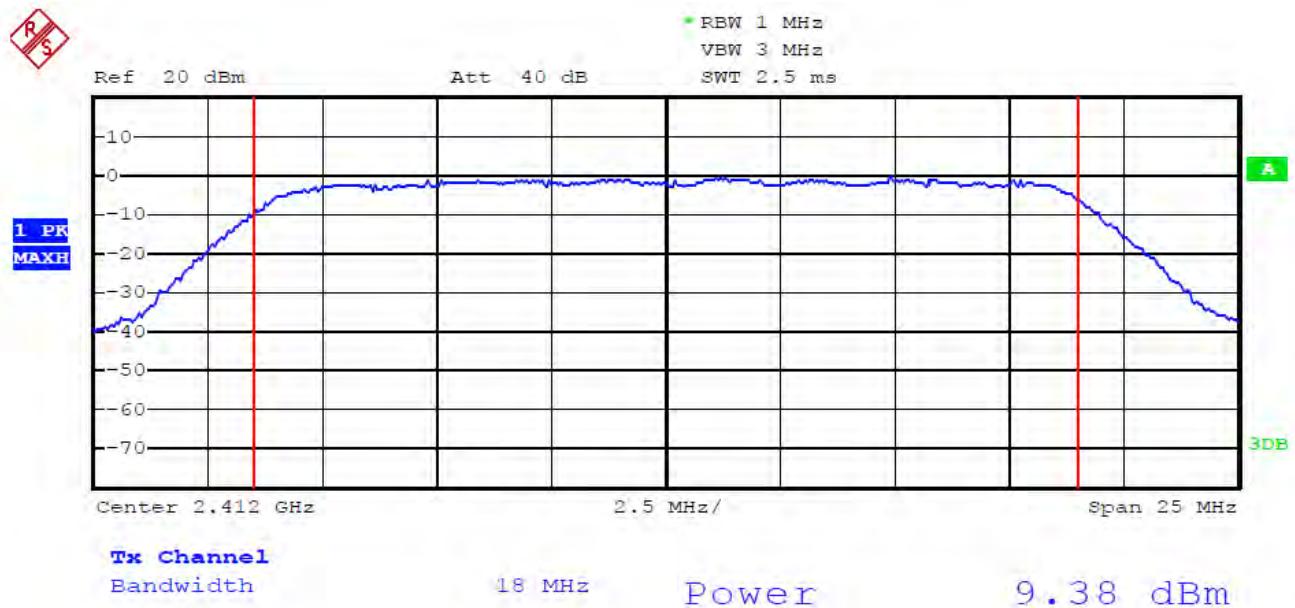
## 802.11g Channel Middle 2437MHz



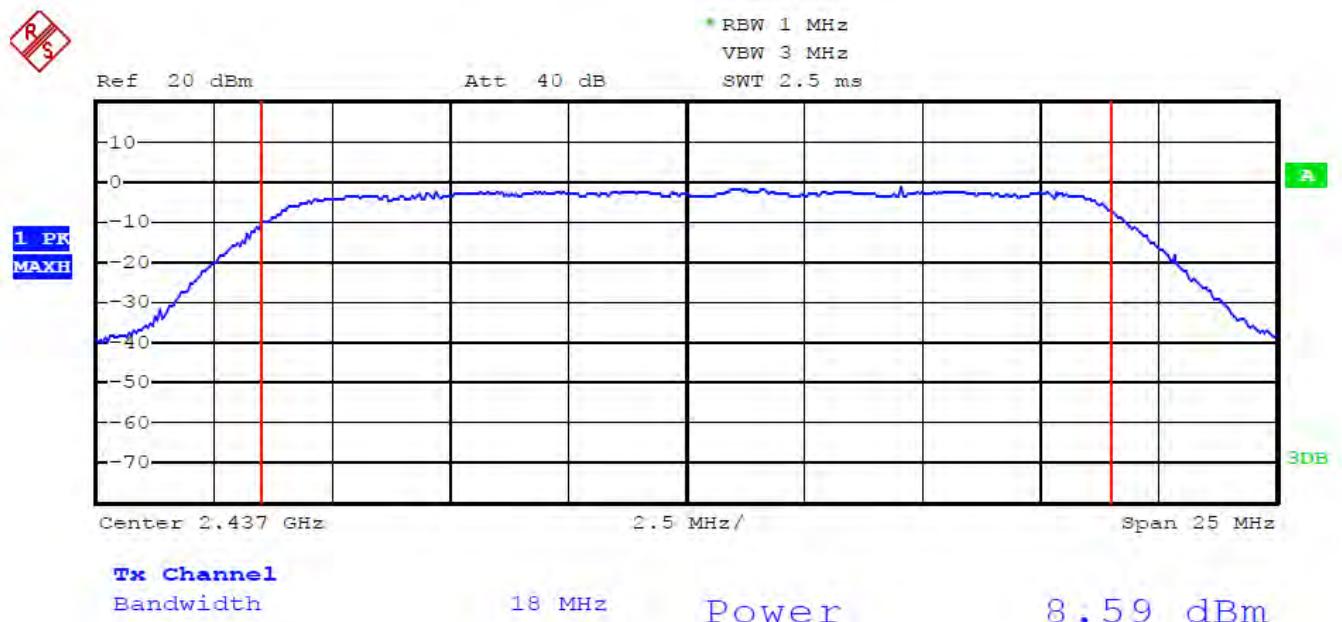
## 802.11g Channel High 2462MHz



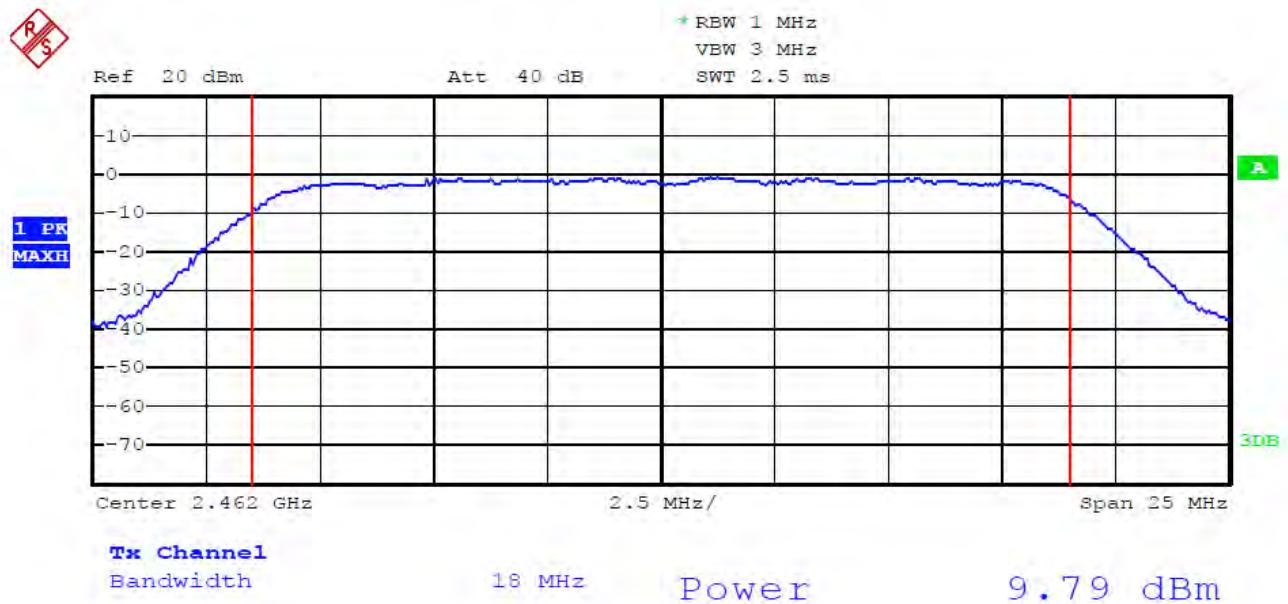
## 802.11n Channel Low 2412MHz



## 802.11n Channel Middle 2437MHz

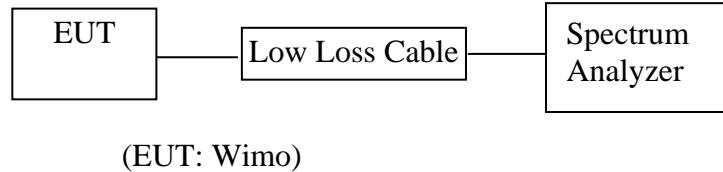


## 802.11n Channel High 2462MHz



## 7. POWER SPECTRAL DENSITY MEASUREMENT

### 7.1. Block Diagram of Test Setup



### 7.2. The Requirement For Section 15.247(e)

Section 15.247(e): 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.

### 7.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 7.3.1. Wimo (EUT)

Model Number	:	wimo wf
Serial Number	:	N/A
Manufacturer	:	ITALCOM GROUP

### 7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

## 7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2. Set RBW of spectrum analyzer to 3kHz and VBW to 10kHz, sweep time = Span/3kHz.

7.5.3. Measurement the maximum power spectral density.

## 7.6. Test Result

**PASS.**

Date of Test:	January 10, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	DC 3.7V
Test Mode:	TX	Test Engineer:	Pei

The test was performed with 802.11b

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-5.93	8 dBm
Middle	2437	-6.89	8 dBm
High	2462	-5.59	8 dBm

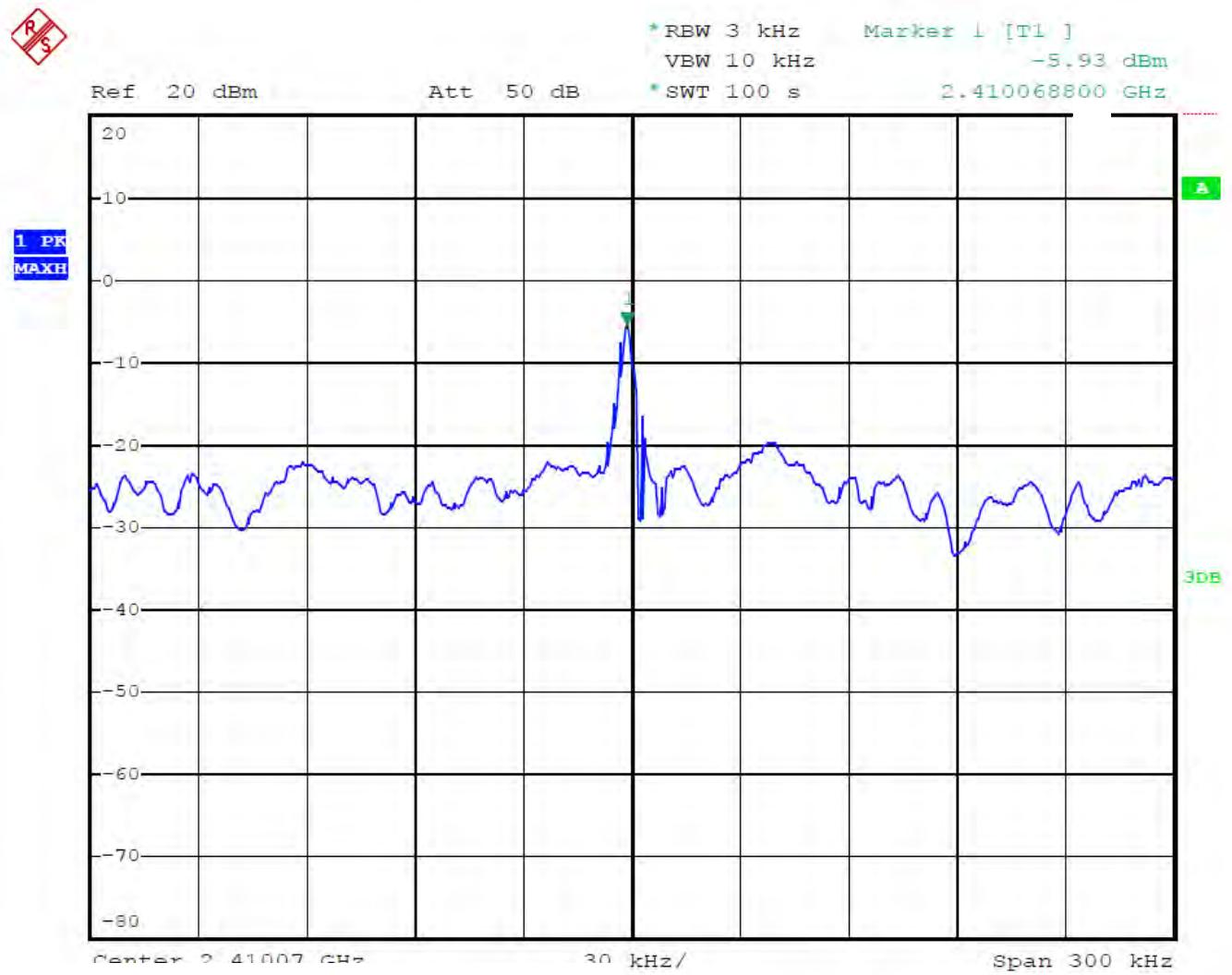
The test was performed with 802.11g

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-24.58	8 dBm
Middle	2437	-26.79	8 dBm
High	2462	-24.29	8 dBm

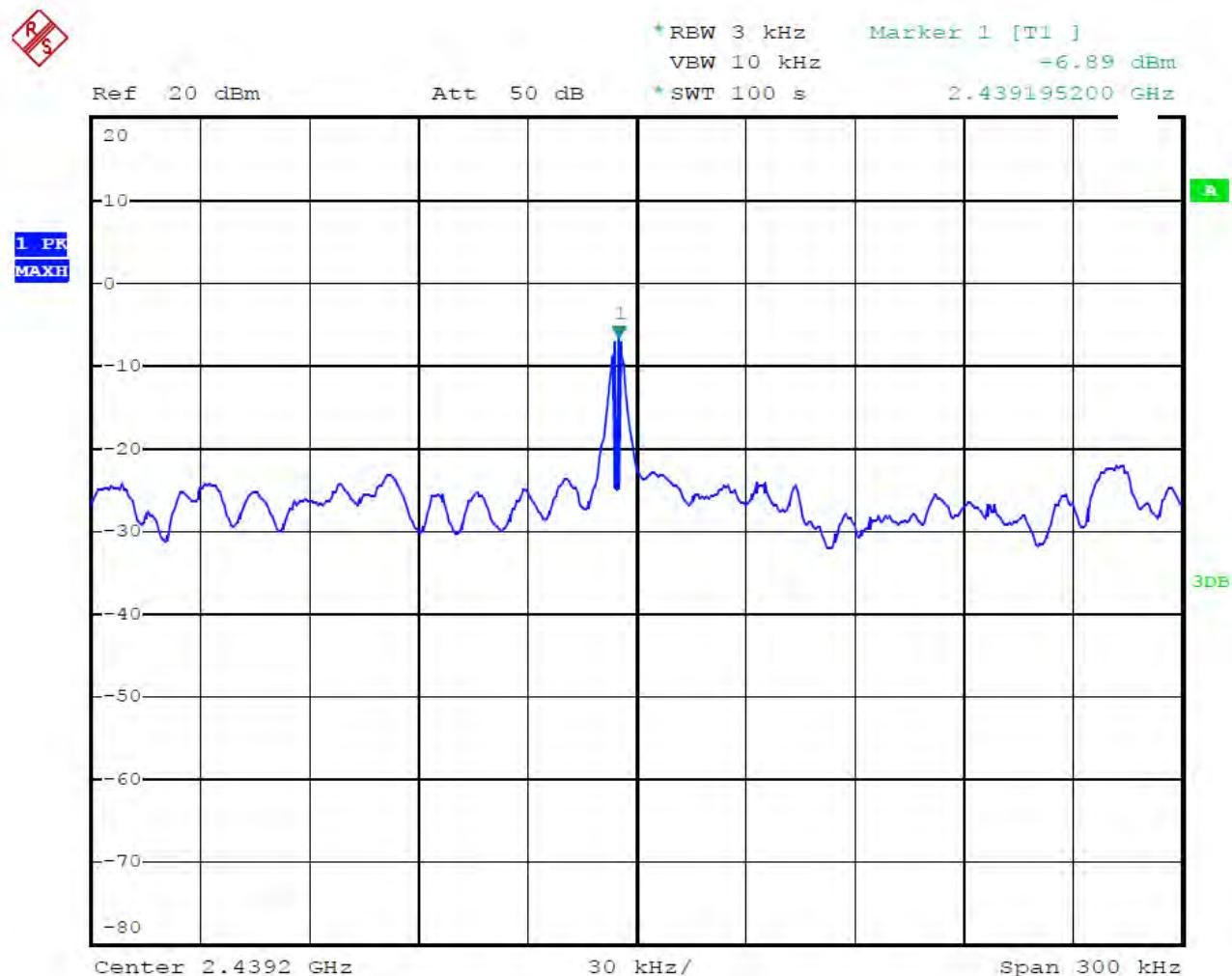
The test was performed with 802.11n			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-24.89	8 dBm
Middle	2437	-26.06	8 dBm
High	2462	-25.45	8 dBm

The spectrum analyzer plots are attached as below.

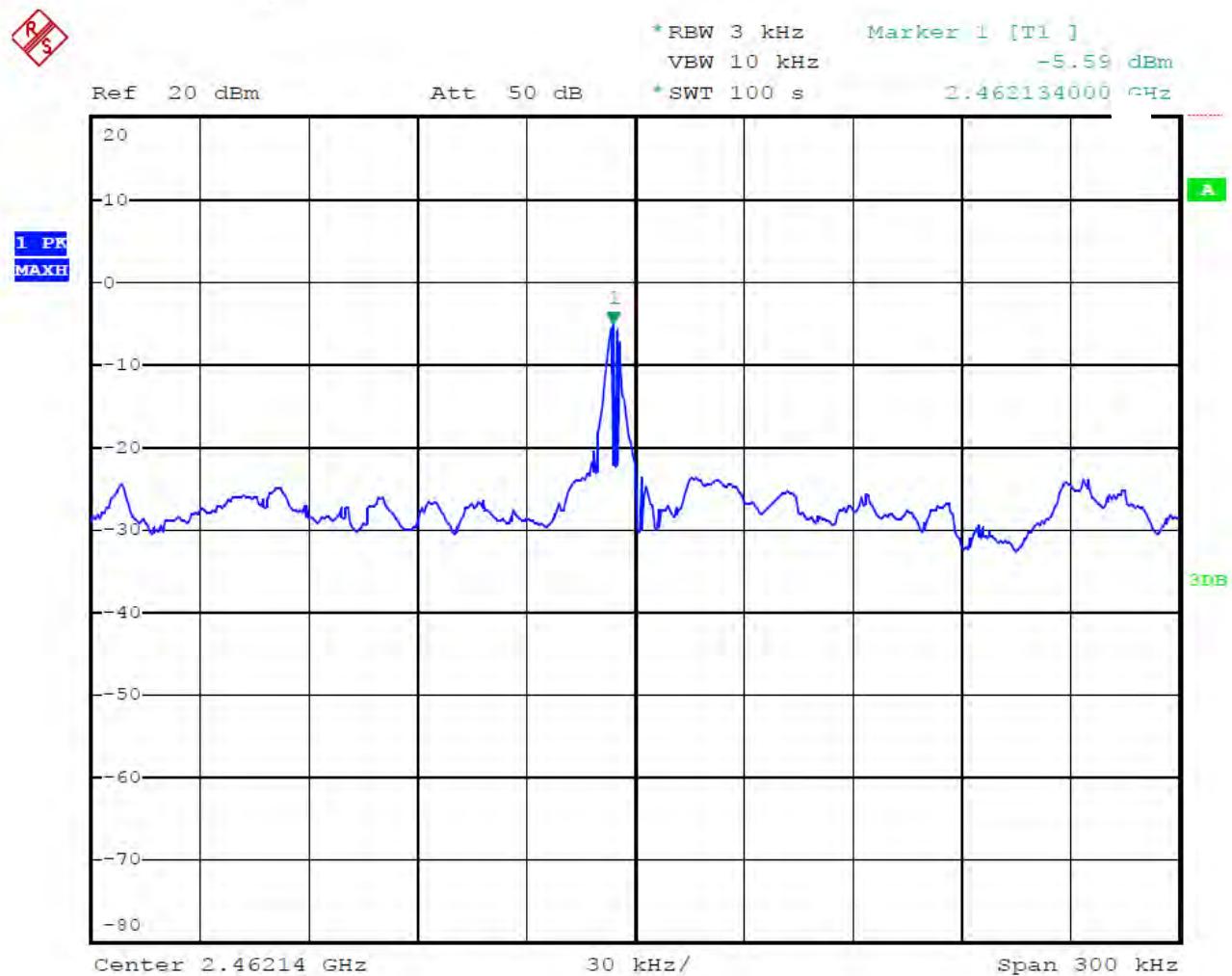
## 802.11b Channel Low 2412MHz



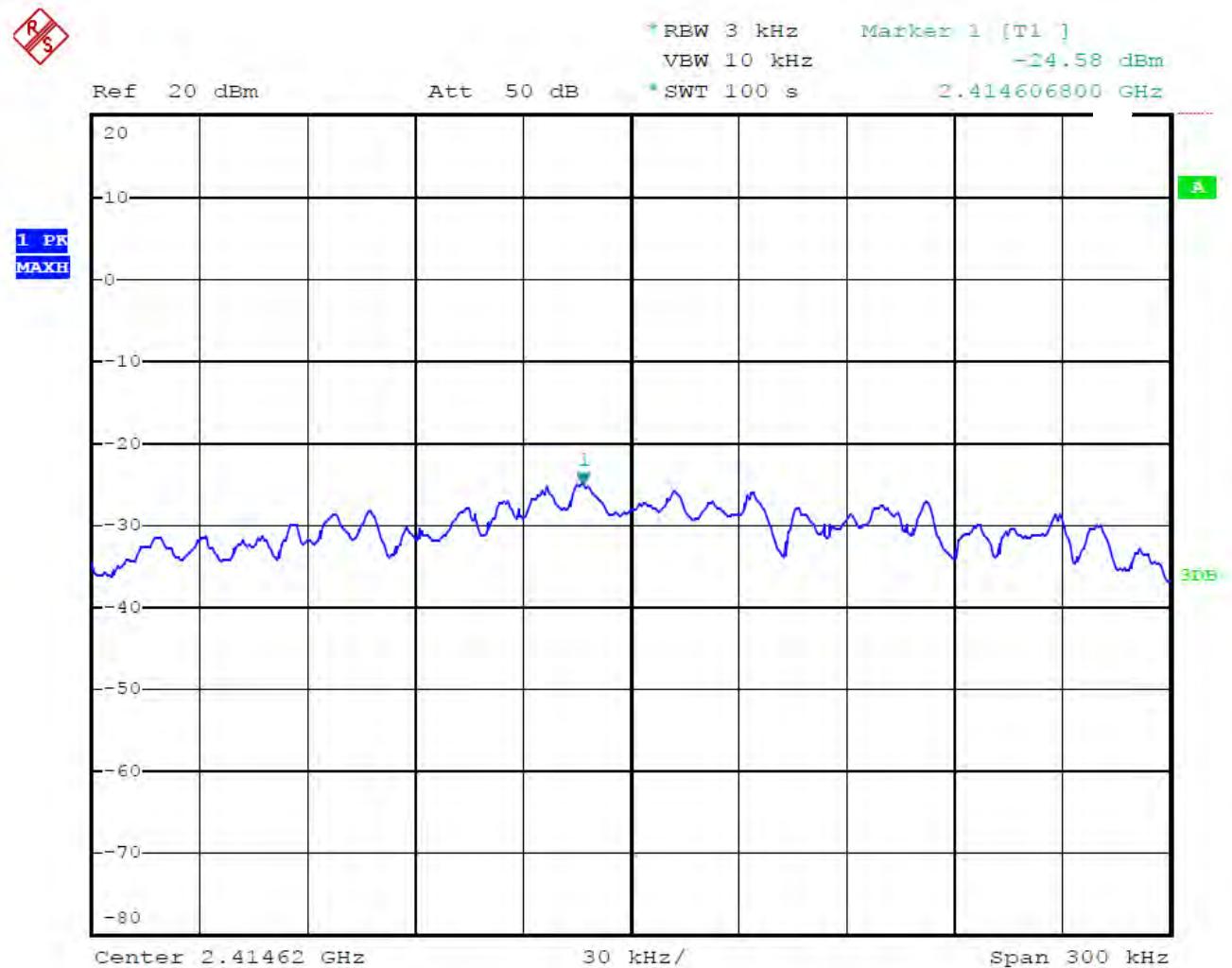
## 802.11b Channel Middle 2437MHz



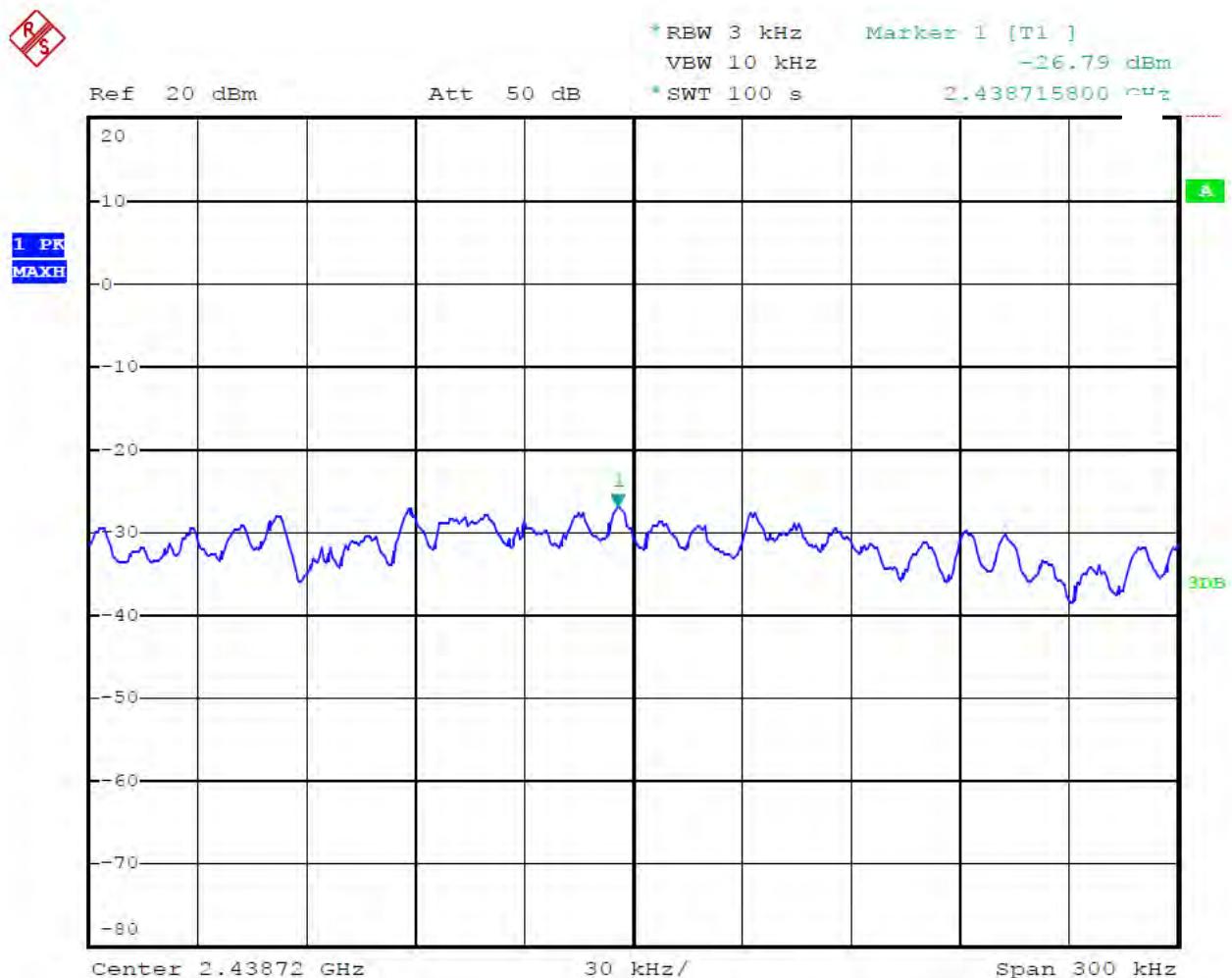
## 802.11b Channel High 2462MHz



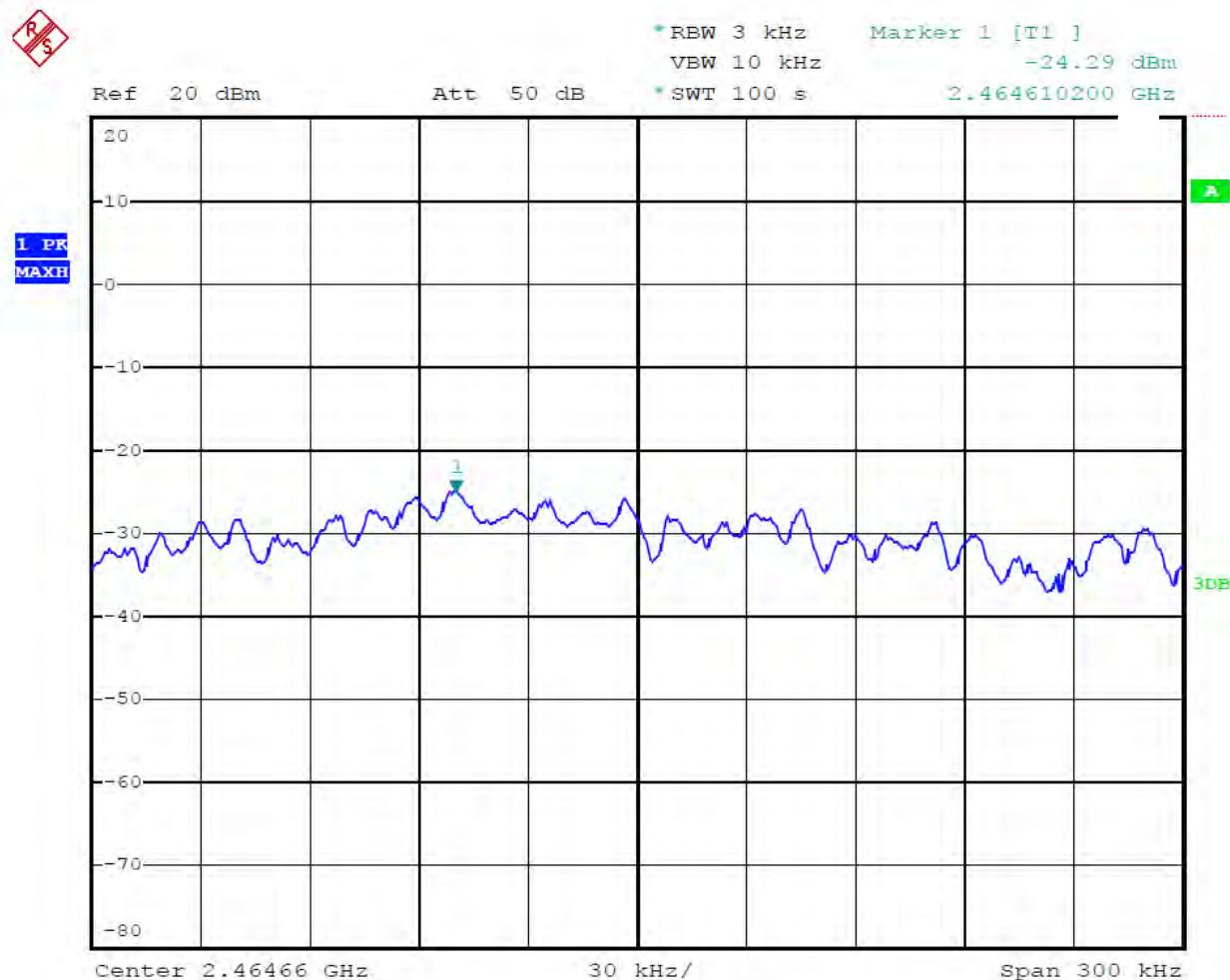
## 802.11g Channel Low 2412MHz



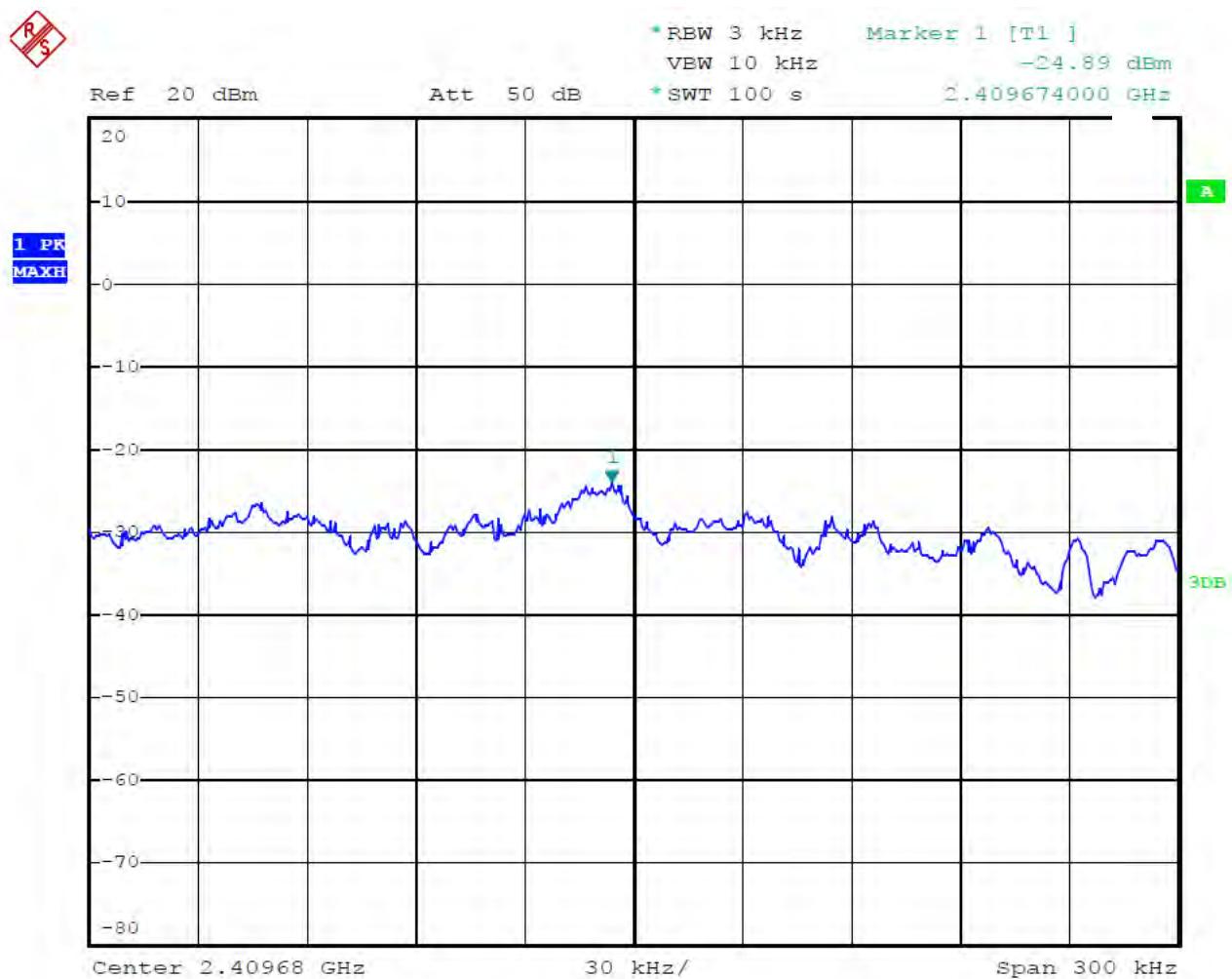
## 802.11g Channel Middle 2437MHz



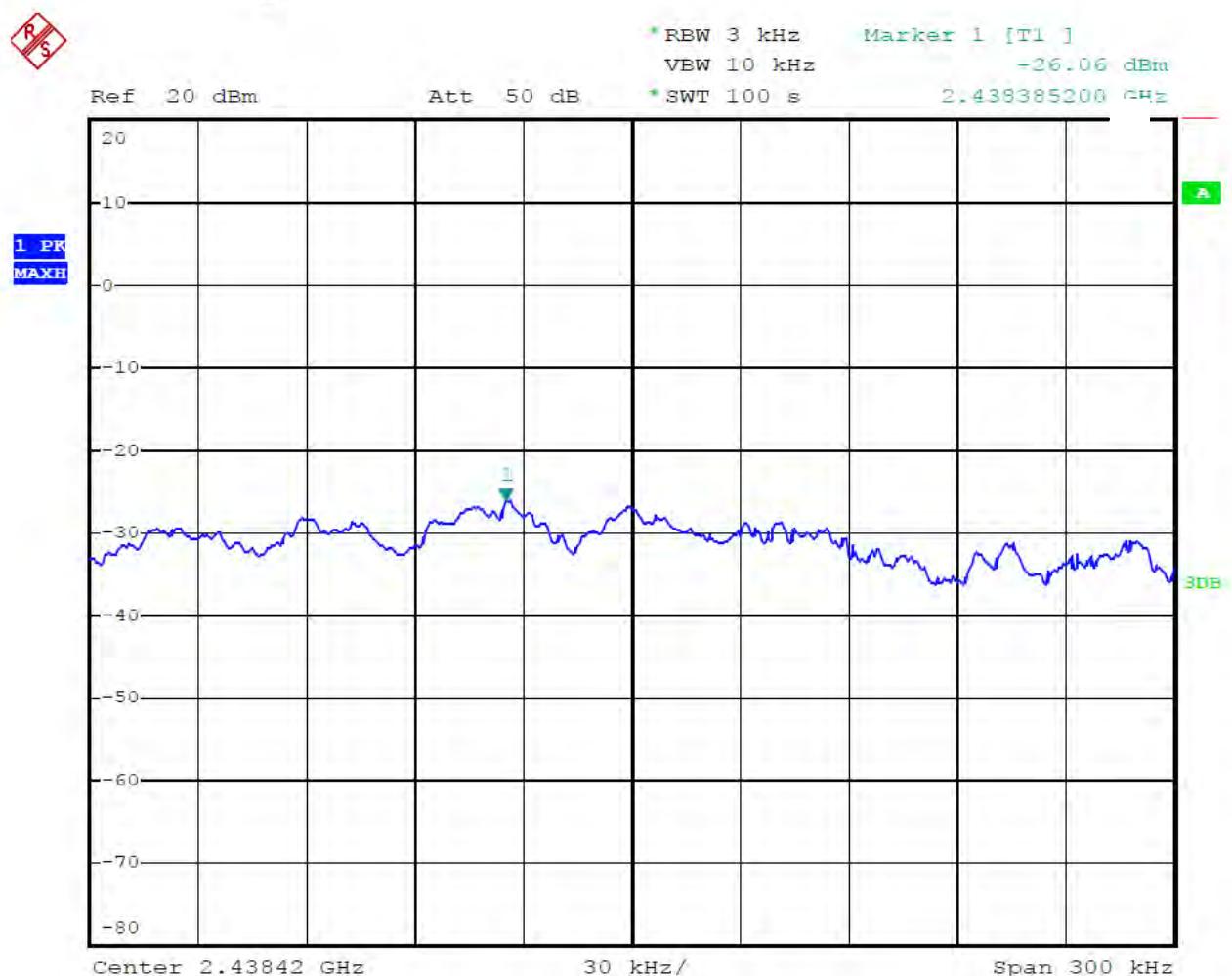
## 802.11g Channel High 2462MHz



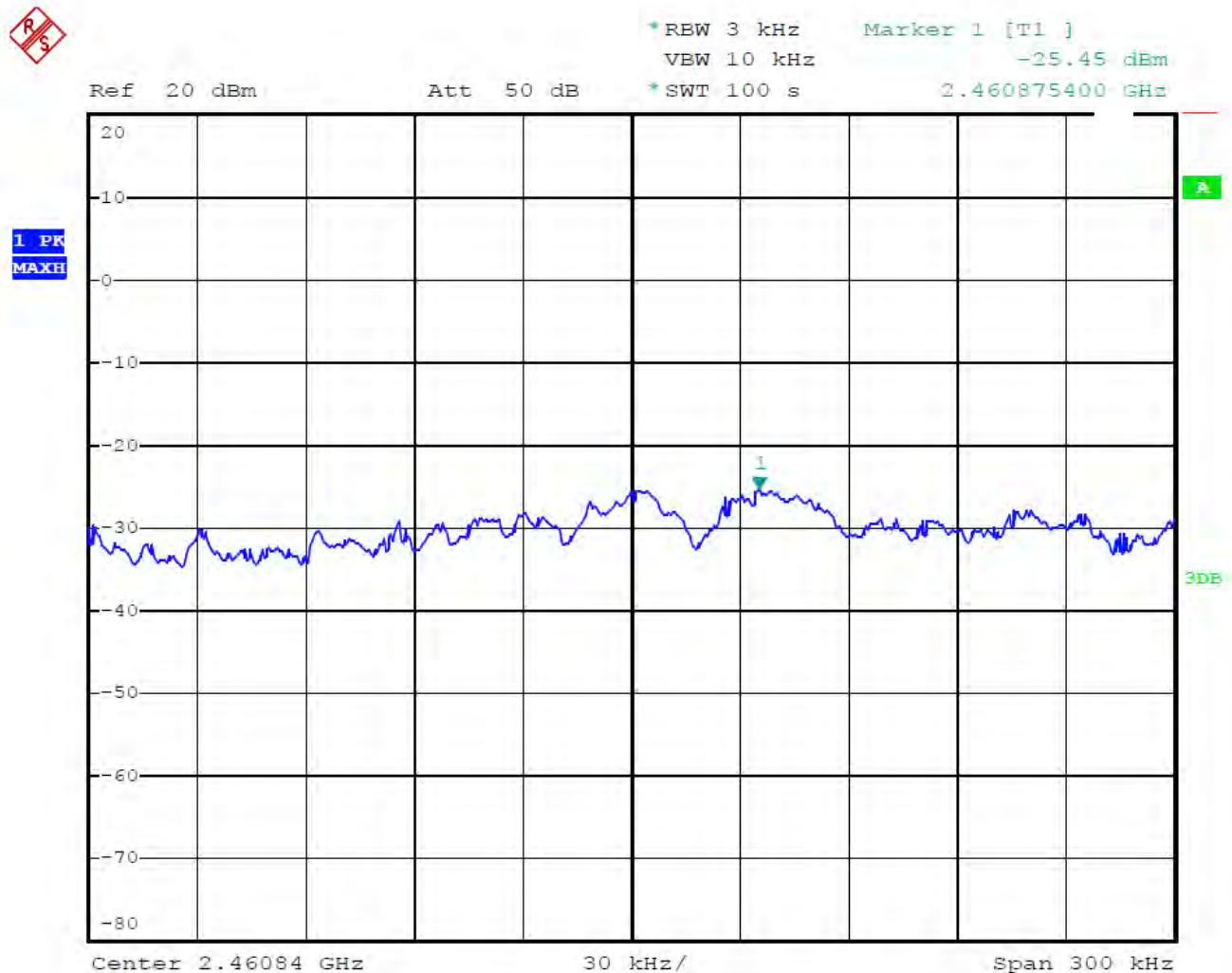
## 802.11n Channel Low 2412MHz



## 802.11n Channel Middle 2437MHz

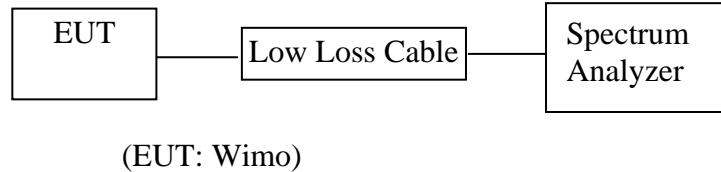


## 802.11n Channel High 2462MHz



## 8. BAND EDGE COMPLIANCE TEST

### 8.1. Block Diagram of Test Setup



### 8.2. The Requirement For Section 15.247(d)

Section 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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

### 8.3. EUT Configuration on Measurement

The following equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 8.3.1. Wimo (EUT)

Model Number	:	wimo wf
Serial Number	:	N/A
Manufacturer	:	ITALCOM GROUP

## 8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2462MHz TX frequency to transmit.

## 8.5. Test Procedure

Conducted Band Edge:

8.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

8.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

Radiate Band Edge:

8.5.3. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.

8.5.4. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

8.5.5. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

8.5.6. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

RBW=1MHz, VBW=1MHz

8.5.7. The band edges was measured and recorded.

## 8.6. Test Result

**Pass**

**Conducted test**

Date of Test:	January 10, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	DC 3.7V
Test Mode:	TX	Test Engineer:	Pei

The test was performed with 802.11b

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	37.59	> 20dBc
2462	36.79	> 20dBc

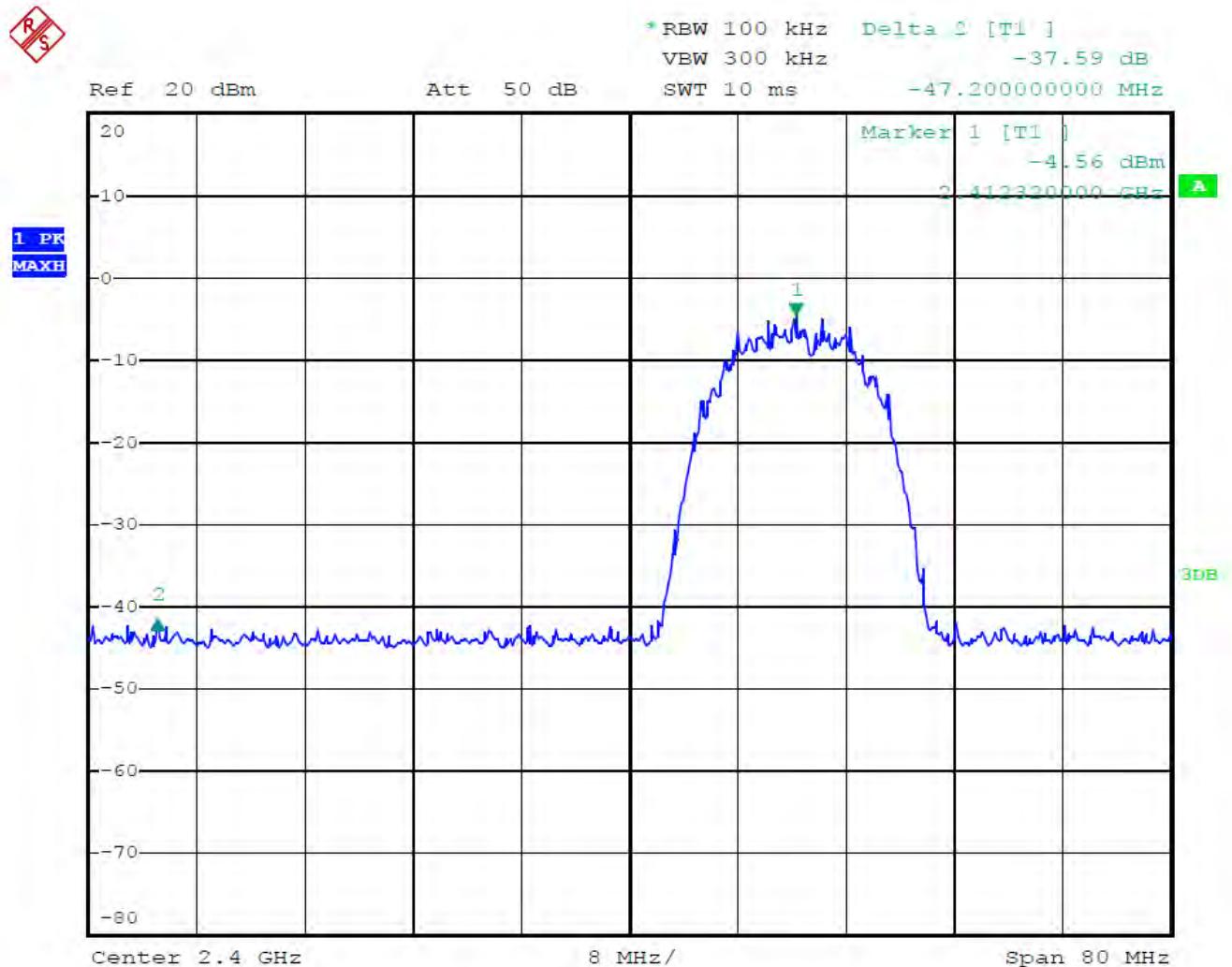
The test was performed with 802.11g

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	33.58	> 20dBc
2462	32.12	> 20dBc

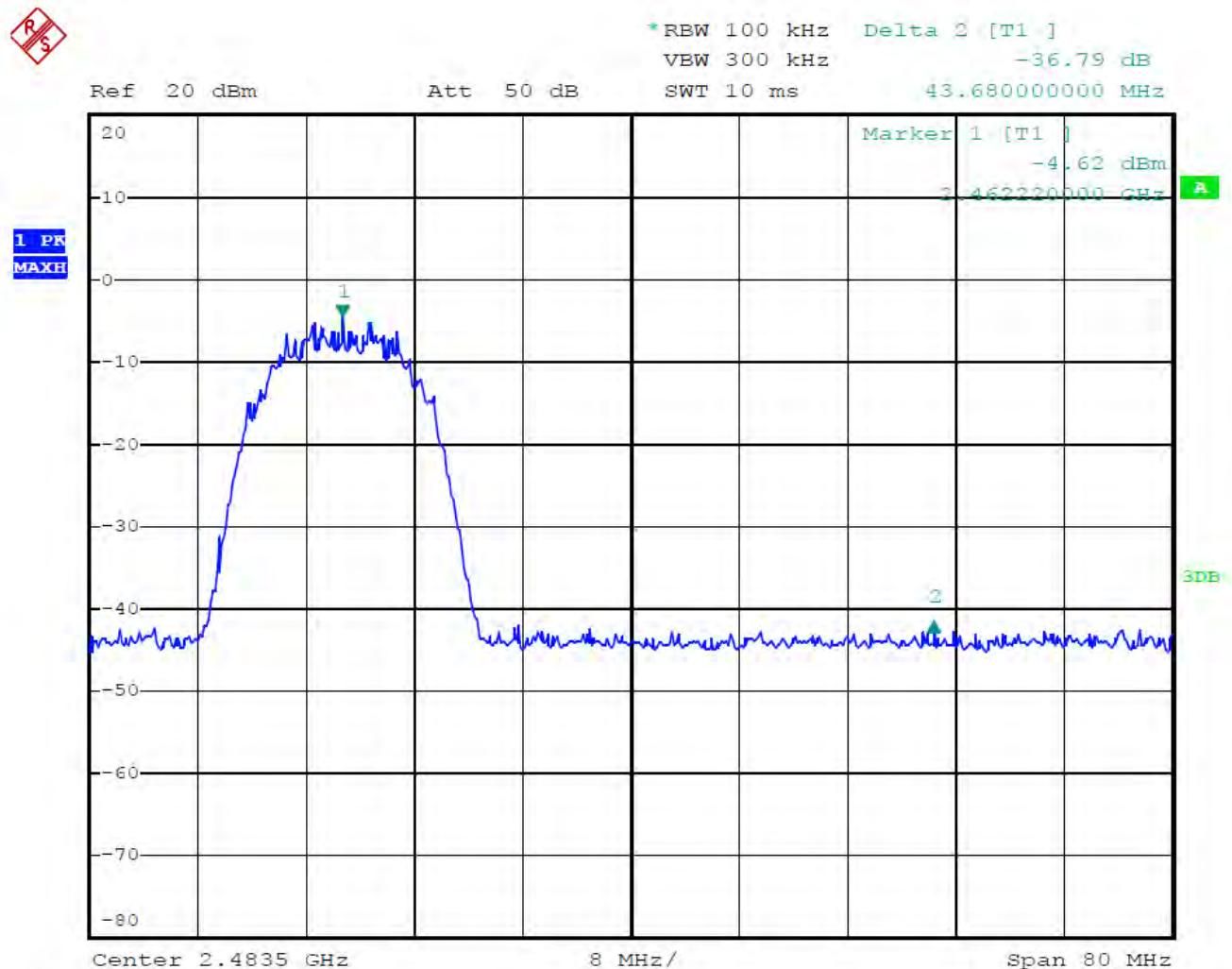
The test was performed with 802.11n

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	32.26	> 20dBc
2462	32.45	> 20dBc

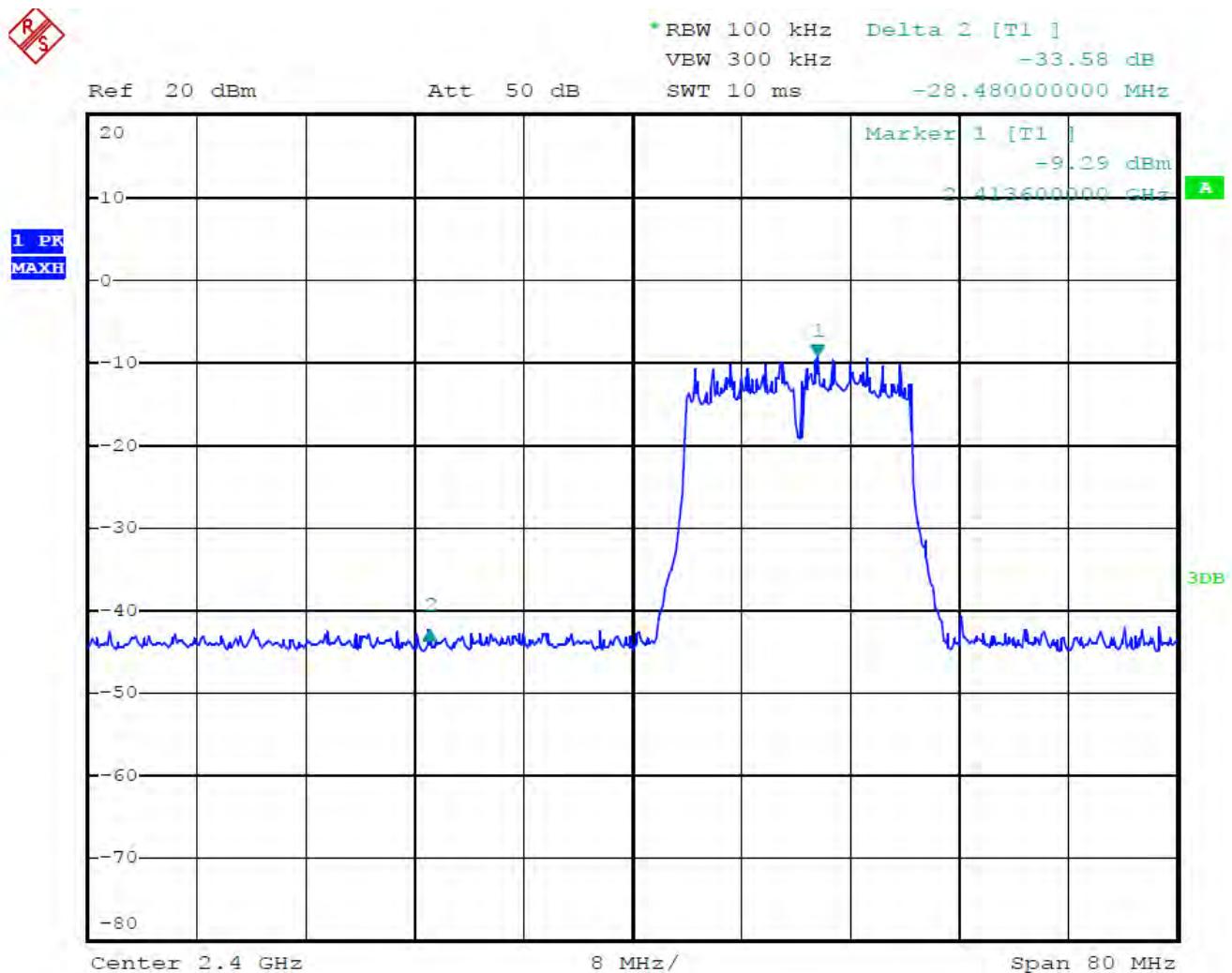
## 802.11b Channel Low 2412MHz



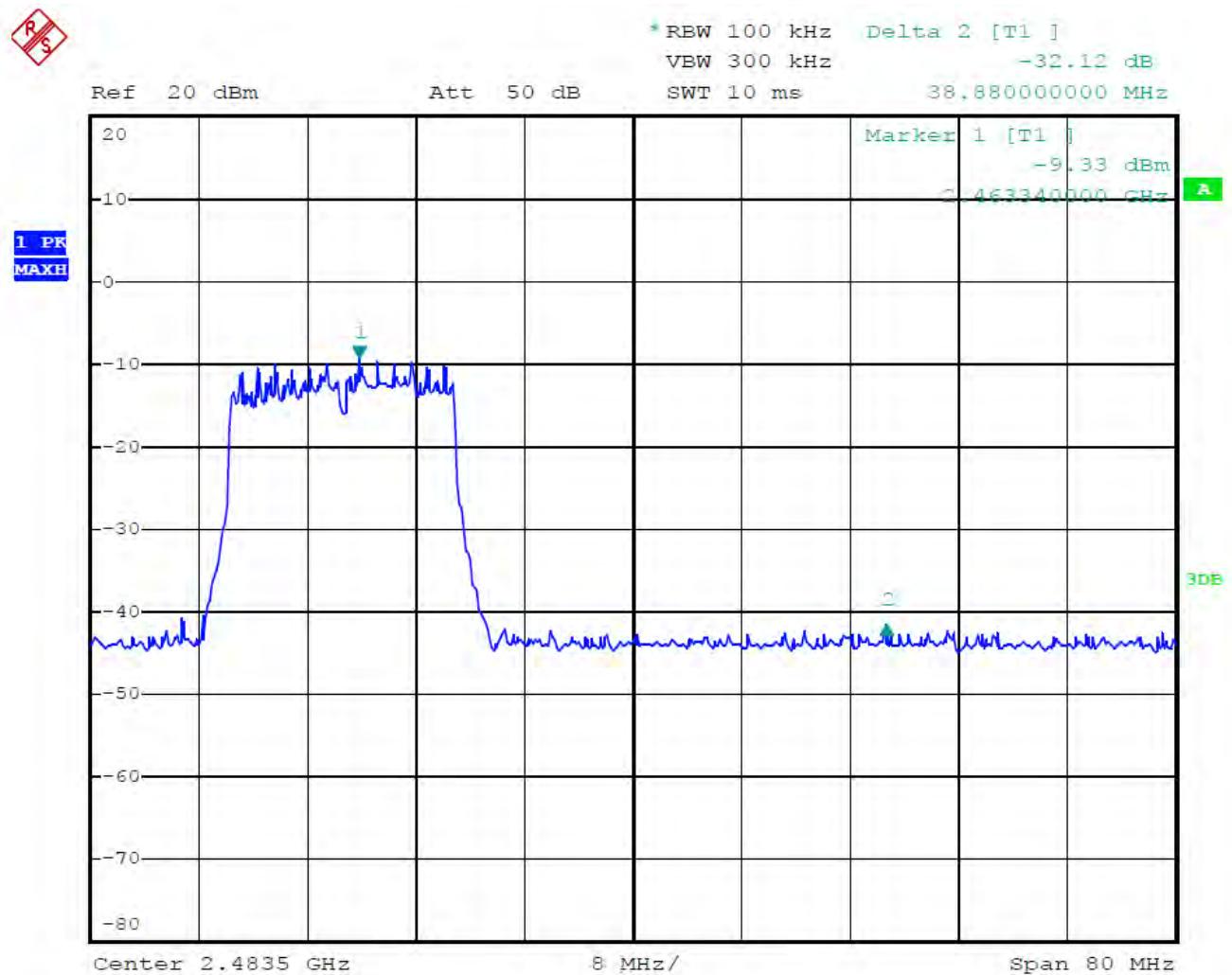
## 802.11b Channel High 2462MHz



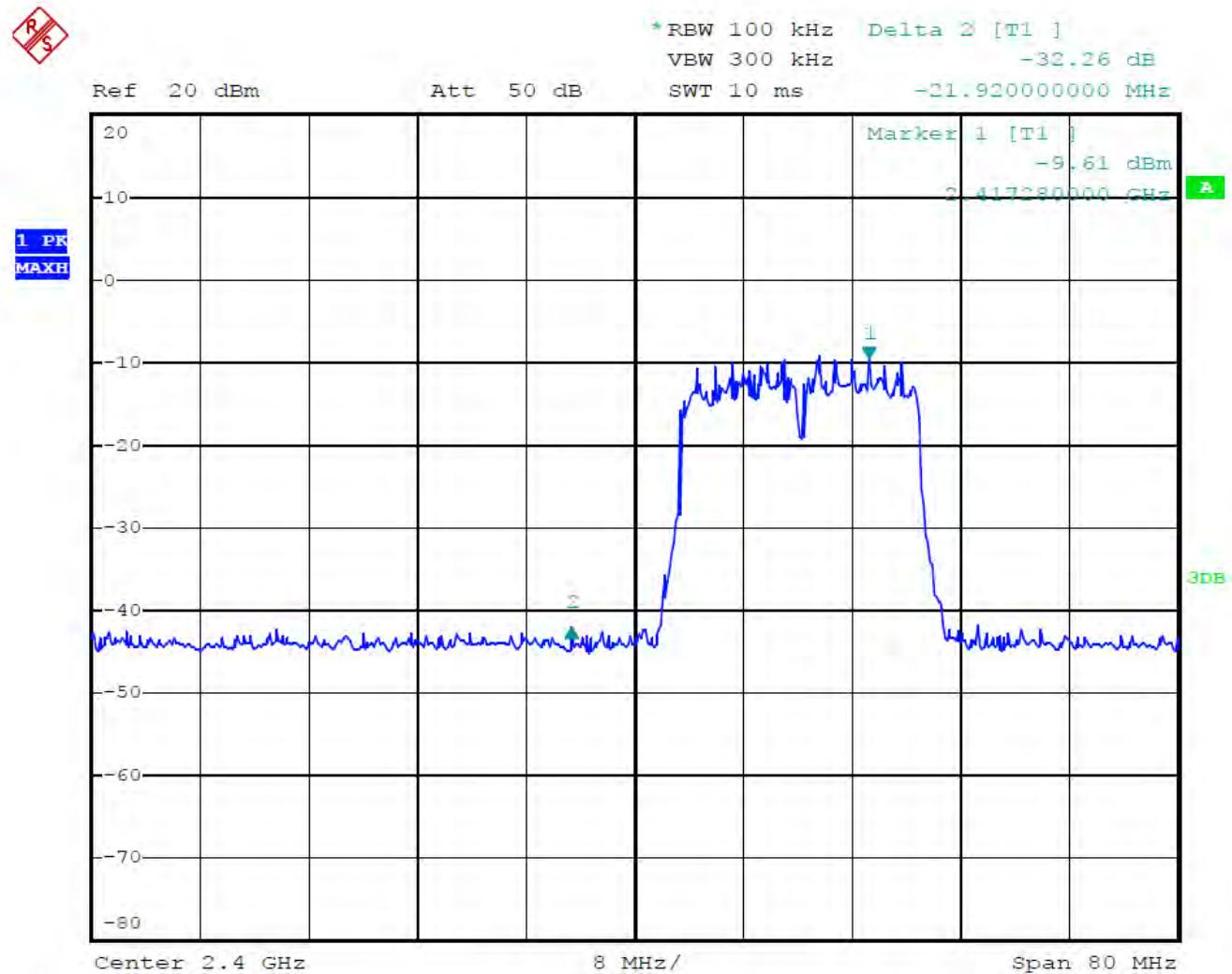
## 802.11g Channel Low 2412MHz



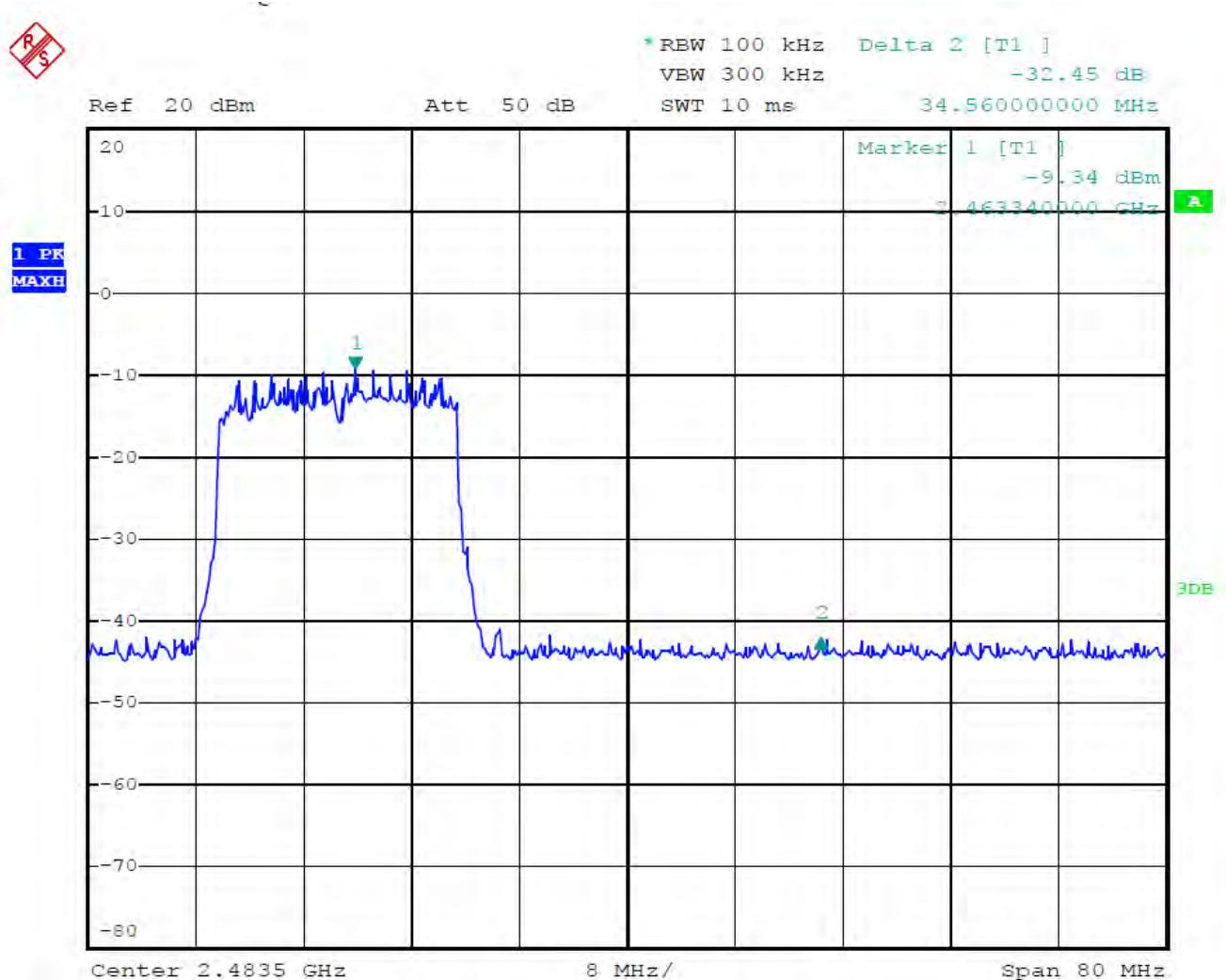
## 802.11g Channel High 2462MHz



## 802.11n Channel High 2412MHz



## 802.11n Channel High 2462MHz



## Radiated Band Edge Result

Date of Test:	January 11, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	DC 3.7V
Test Mode:	802.11b Channel Low 2412MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:  

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$
3. Display the measurement of peak values.

Date of Test:	January 11, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	DC 3.7V
Test Mode:	802.11b Channel High 2462MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

## Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:  
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Date of Test:	January 11, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	DC 3.7V
Test Mode:	802.11g Channel Low 2412MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

## Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:  

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$
3. Display the measurement of peak values.

Date of Test:	January 11, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	DC 3.7V
Test Mode:	802.11g Channel High 2462MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

## Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:  
Result = Reading + Corrected Factor
3. Display the measurement of peak values.

Date of Test:	January 11, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	DC 3.7V
Test Mode:	802.11n Channel Low 2412MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

## Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:  

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$
3. Display the measurement of peak values.

Date of Test:	January 11, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	DC 3.7V
Test Mode:	802.11n Channel High 2462MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor(dB) Corr.	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB)		Polarization
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
-	-	-	-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	-	-	-	Horizontal

## Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:  
Result = Reading + Corrected Factor
3. Display the measurement of peak values.



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Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1833	Polarization: Horizontal									
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 12/01/11/									
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 23:15:17									
EUT: Wimo	Engineer Signature: Kai									
Mode: TX Channel 1 (802.11b)	Distance:									
Model: wimo wf										
Manufacturer: Italcom Group										
Note: Report No.:ATE20120041										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark



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Site: 906 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1832

Polarization: Vertical

Standard: FCC Part 15 PEAK 2.4G

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/11

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 23:11:09

EUT: Wimo

Engineer Signature: Kai

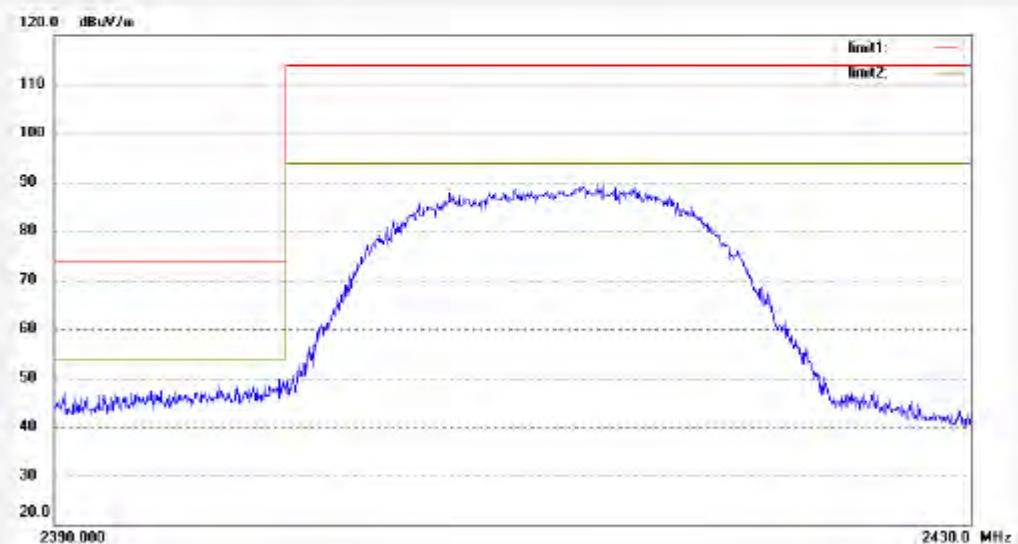
Mode: TX Channel 1 (802.11b)

Distance:

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 906 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1830

Polarization: Horizontal

Standard: FCC Part 15 PEAK 2.4G

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/11/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 23:05:45

EUT: Wimo

Engineer Signature: Kai

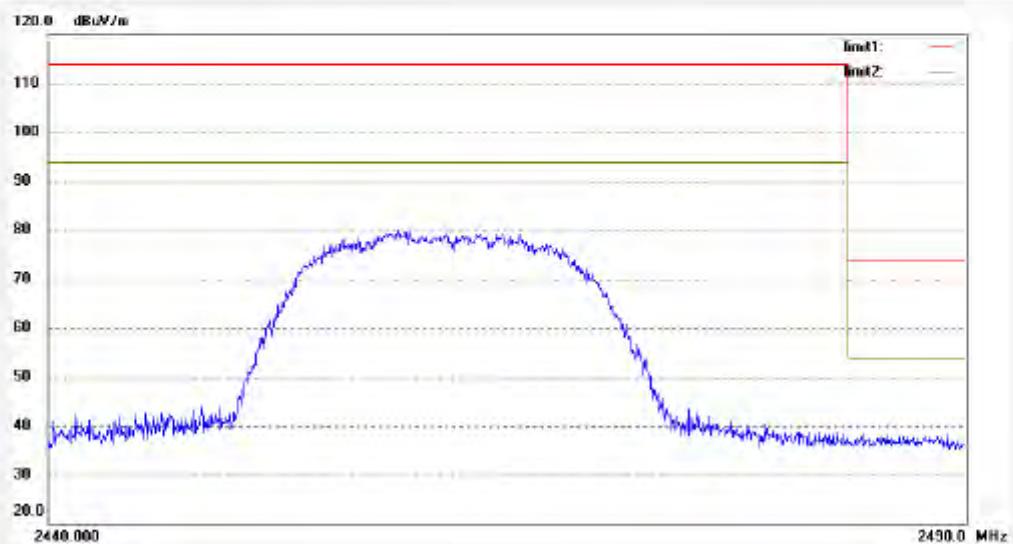
Mode: TX Channel 11 (802.11b)

Distance:

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 988 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1831

Polarization: Vertical

Standard: FCC Part 15 PEAK 2.4G

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/11

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 23:07:21

EUT: Wimo

Engineer Signature: Kai

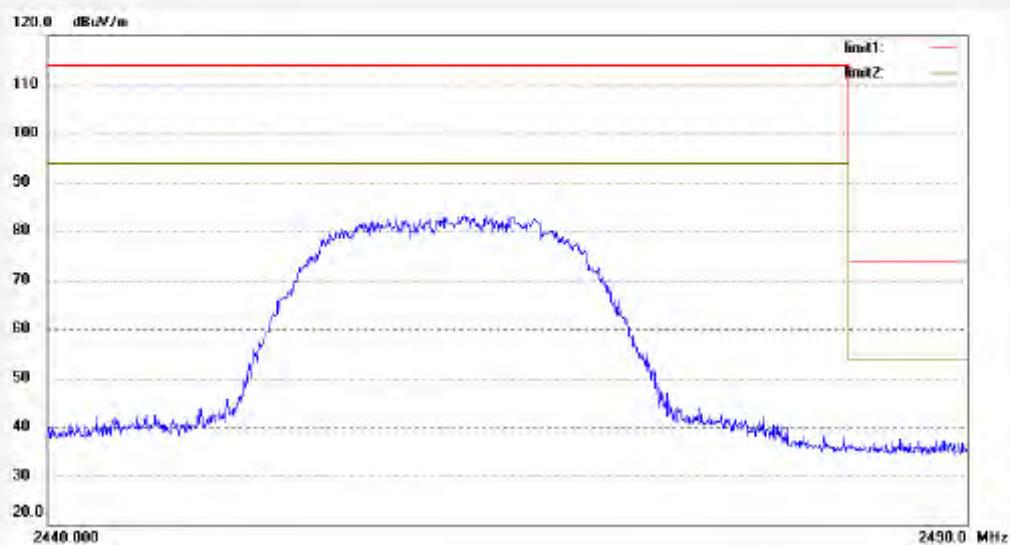
Mode: TX Channel 11 (802.11b)

Distance:

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1826	Polarization: Horizontal									
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 12/01/11									
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 22:55:09									
EUT: Wimo	Engineer Signature: Kai									
Mode: TX Channel 1 (802.11g)	Distance:									
Model: wimo wf										
Manufacturer: Italcom Group										
Note: Report No.:ATE20120041										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503398

Job No.: Kai #1827	Polarization: Vertical									
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 12/01/11/									
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 22:56:35									
EUT: Wimo	Engineer Signature: Kai									
Mode: TX Channel 1 (802.11g)	Distance:									
Model: wimo wf										
Manufacturer: Italcom Group										
Note: Report No.:ATE20120041										
<p>The graph displays the measured radiation spectrum. The Y-axis represents power in dBuV/m, ranging from 20.0 to 120.0. The X-axis represents frequency in MHz, ranging from 2390.000 to 2430.0 MHz. A blue line represents the measured data, which starts at ~45 dBuV/m, rises sharply to a peak of ~85 dBuV/m at 2.4 GHz, and then falls back to ~45 dBuV/m. Two horizontal red lines represent the FCC limits: Limit1 at 70 dBuV/m and Limit2 at 110 dBuV/m. A green shaded area indicates the measurement uncertainty band around the measured curve.</p>										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark



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Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1829

Polarization: Horizontal

Standard: FCC Part 15 PEAK 2.4G

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/11

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 23:01:23

EUT: Wimo

Engineer Signature: Kai

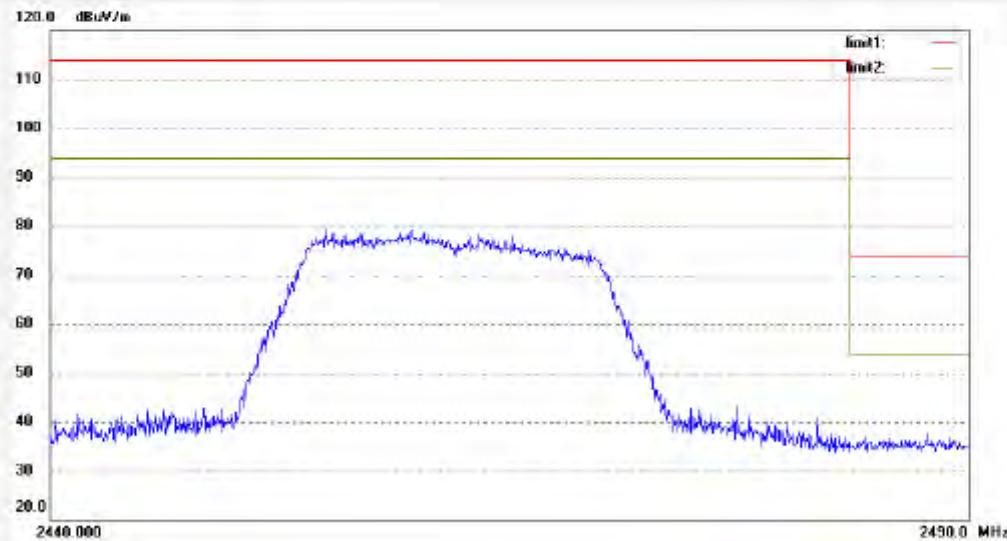
Mode: TX Channel 11 (802.11g)

Distance:

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 906 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1828	Polarization: Vertical									
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 12/01/11									
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 23:00:19									
EUT: Wimo	Engineer Signature: Kai									
Mode: TX Channel 11 (802.11g)	Distance:									
Model: wimo wf										
Manufacturer: Italcom Group										
Note: Report No.:ATE20120041										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark



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Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1822

Polarization: Horizontal

Standard: FCC Part 15 PEAK 2.4G

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/11

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 22:42:51

EUT: Wimo

Engineer Signature: Kai

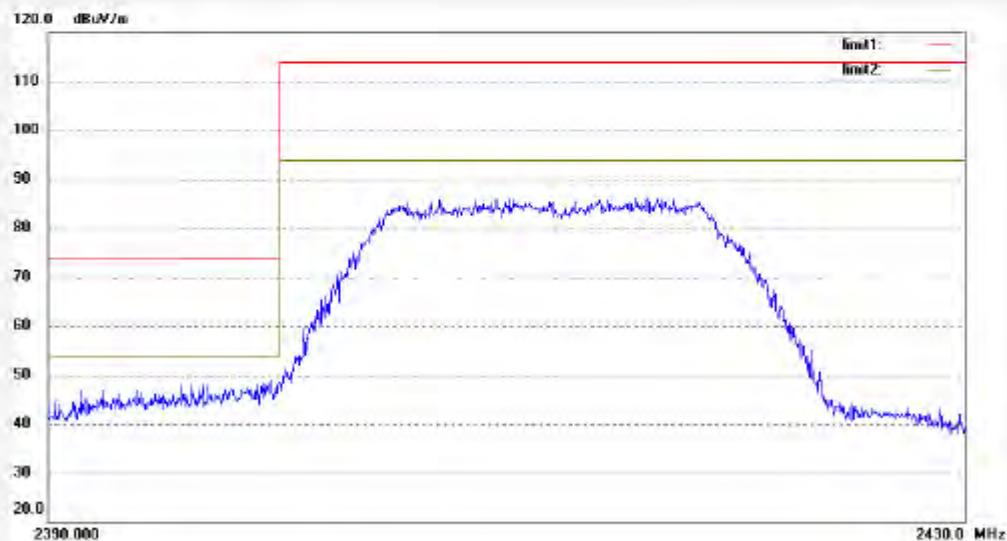
Mode: TX Channel 1 (802.11n)

Distance:

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 906 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1823	Polarization: Vertical									
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 12/01/11/									
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 22:44:01									
EUT: Wimo	Engineer Signature: Kai									
Mode: TX Channel 1 (802.11n)	Distance:									
Model: wimo wf										
Manufacturer: Italcom Group										
Note: Report No.:ATE20120041										
<p>The graph displays the spectral power density in dBuV/m versus frequency in MHz. The Y-axis ranges from 20.0 to 120.0 dBuV/m, and the X-axis ranges from 2390.000 MHz to 2430.0 MHz. A blue line represents the measured reading, which starts at approximately 45 dBuV/m at 2390 MHz, rises to a peak of about 85 dBuV/m at 2415 MHz, and then falls back to around 45 dBuV/m at 2430 MHz. Two horizontal reference lines are shown: a red line labeled 'limit1' at approximately 75 dBuV/m and a green line labeled 'limit2' at approximately 95 dBuV/m. The measured reading stays below both limits throughout the frequency range.</p>										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark



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Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1825

Polarization: Horizontal

Standard: FCC Part 15 PEAK 2.4G

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/11/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 22:50:06

EUT: Wimo

Engineer Signature: Kai

Mode: TX Channel 11 (802.11n)

Distance:

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1824

Polarization: Vertical

Standard: FCC Part 15 PEAK 2.4G

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/11

Temp.( C)Hum.(%) 24 C / 48 %

Time: 22:48:57

EUT: Wimo

Engineer Signature: Kai

Mode: TX Channel 11 (802.11n)

Distance:

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041

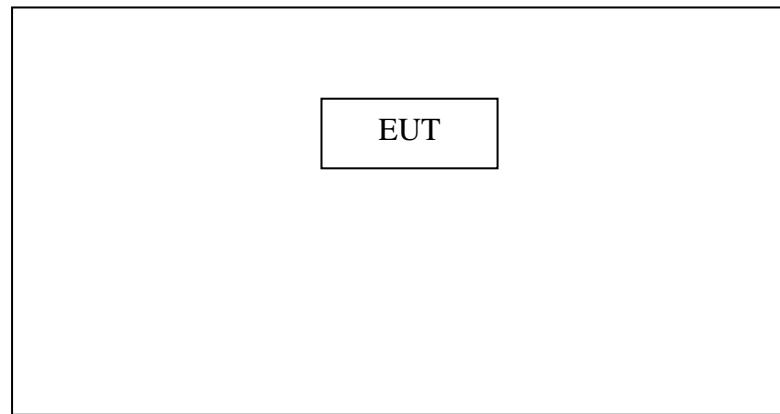


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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## 9. RADIATED SPURIOUS EMISSION TEST

### 9.1. Block Diagram of Test Setup

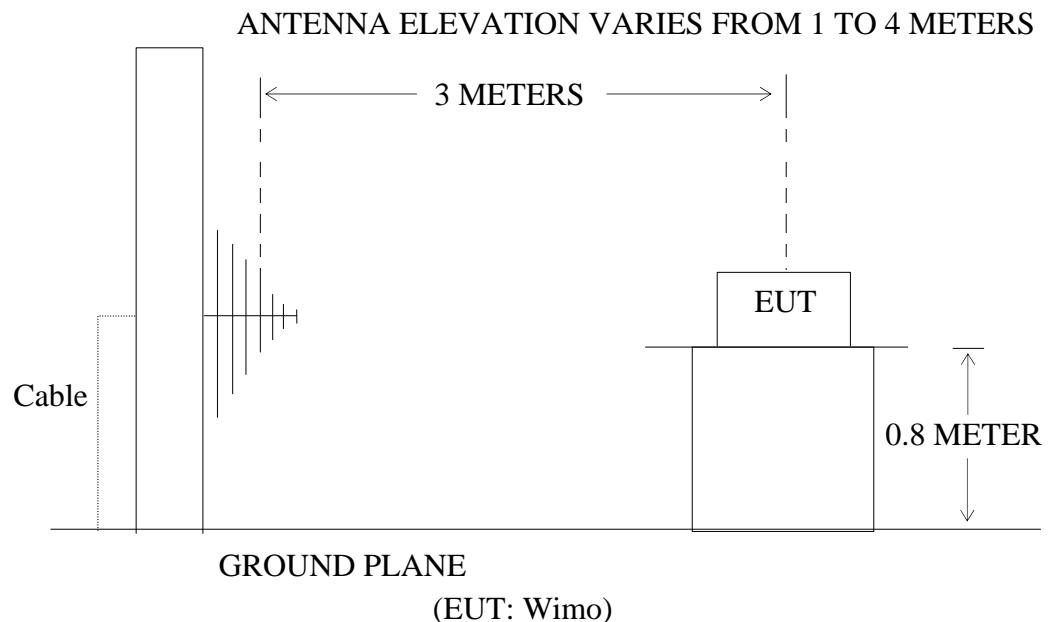
#### 9.1.1. Block diagram of connection between the EUT and peripherals



Setup: Transmitting mode

(EUT: Wimo)

#### 9.1.2. Semi-Anechoic Chamber Test Setup Diagram



## 9.2.The Limit For Section 15.247(d)

Section 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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

## 9.3.Restricted bands of operation

### 9.3.1.FCC Part 15.205 Restricted bands of operation

- (a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
<sup>1</sup> 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	( <sup>2</sup> )
13.36-13.41			

<sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510

<sup>2</sup>Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

## 9.4.Configuration of EUT on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 9.4.1.Wimo (EUT)

Model Number	:	wimo wf
Serial Number	:	N/A
Manufacturer	:	ITALCOM GROUP

## 9.5.Operating Condition of EUT

9.5.1.Setup the EUT and simulator as shown as Section 9.1.

9.5.2.Turn on the power of all equipment.

9.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

## 9.6.Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2003 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The worst-case data rate for this channel to be 1Mbps for 802.11b mode and 6Mbps for 802.11g mode, based on previous with 802.11 WLAN product design architectures.

The bandwidth of test receiver (R&S ESI26) is set at 120kHz in 30-1000MHz. and set at 1MHz in above 1000MHz.

The frequency range from 30MHz to 25000MHz is checked.

The final measurement in band 9-90kHz, 110-490kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector.

The field strength is calculated by adding the antenna factor, and cable loss, and subtracting the amplifier gain from the measured reading. The basic equation calculation is as follows:

Result = Reading + Corrected Factor

Where Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

**9.7.The Field Strength of Radiation Emission Measurement Results  
PASS.**

Date of Test:	January 11, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	DC 3.7V
Test Mode:	802.11b Channel Low 2412MHz	Test Engineer:	Pei

**For 30MHz-1000MHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor Corr. (dB)	Result	Limit	Margin	Polarization
			QP	QP	QP	
98.7215	27.03	13.94	40.97	43.50	-2.53	Vertical
130.3048	26.31	14.89	41.20	43.50	-2.30	Vertical
162.0197	26.47	14.62	41.09	43.50	-2.41	Vertical
195.8701	25.19	16.14	41.33	43.50	-2.17	Vertical
259.4433	22.93	18.52	41.45	46.00	-4.55	Vertical
328.3068	21.36	19.69	41.05	46.00	-4.95	Vertical
98.7215	27.28	14.01	41.29	43.50	-2.21	Horizontal
120.6118	24.66	14.72	39.38	43.50	-4.12	Horizontal
162.0197	26.40	14.62	41.02	43.50	-2.48	Horizontal
195.8701	25.17	16.02	41.19	43.50	-2.31	Horizontal
259.4433	25.22	18.52	43.74	46.00	-2.26	Horizontal
328.3068	24.25	19.69	43.94	46.00	-2.06	Horizontal

**For 1GHz-25GHz**

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor Corr. (dB)	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB $\mu$ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2412.000	71.43	71.96	-7.43	64.00	64.53	-	-	-	-	Vertical
*4824.028	40.00	41.63	-0.19	39.81	41.44	54	74	-14.19	-32.56	Vertical
2412.000	71.54	71.72	-7.43	64.11	64.29	-	-	-	-	Horizontal
*4824.028	40.00	40.99	-0.19	39.81	40.80	54	74	-14.19	-33.20	Horizontal

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. \*: Denotes restricted band of operation.**

Date of Test: January 11, 2012  
 EUT: Wimo  
 Model No.: wimo wf  
 Test Mode: 802.11b Channel Middle 2437MHz

Temperature: 25°C  
 Humidity: 50%  
 Power Supply: DC 3.7V  
 Test Engineer: Pei

### For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor Corr. (dB)	Result	Limit	Margin	Polarization
			QP	QP	QP	
98.7215	27.38	13.94	41.32	43.50	-2.18	Vertical
130.3048	26.34	14.89	41.23	43.50	-2.27	Vertical
162.0197	26.48	14.62	41.10	43.50	-2.40	Vertical
195.8701	25.04	16.14	41.18	43.50	-2.32	Vertical
259.4433	25.28	18.52	43.80	46.00	-2.20	Vertical
328.3068	21.91	19.69	41.60	46.00	-4.40	Vertical
98.7215	27.24	14.01	41.25	43.50	-2.25	Horizontal
130.3048	26.07	14.89	40.96	43.50	-2.54	Horizontal
162.0197	26.55	14.62	41.17	43.50	-2.33	Horizontal
195.8701	25.25	16.02	41.27	43.50	-2.23	Horizontal
259.4433	25.16	18.52	43.68	46.00	-2.32	Horizontal
328.3068	23.85	19.69	43.54	46.00	-2.46	Horizontal

### For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor Corr. (dB)	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB $\mu$ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2437.000	74.09	74.20	-7.36	66.73	66.84	-	-	-	-	Vertical
*4874.030	44.07	44.13	0.09	44.16	44.22	54	74	-9.84	-29.78	Vertical
2437.000	72.37	72.84	-7.36	65.01	65.48	-	-	-	-	Horizontal
*4874.030	41.59	41.96	0.09	41.68	42.05	54	74	-12.32	-31.95	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. \*: Denotes restricted band of operation.

Date of Test:	January 11, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	DC 3.7V
Test Mode:	802.11b Channel High 2462MHz	Test Engineer:	Pei

### For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor Corr.	Result (dB $\mu$ V/m)		Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
			QP	QP			
98.7215	27.22	13.94	41.16	43.50	-2.34		Vertical
130.3048	25.80	14.89	40.69	43.50	-2.81		Vertical
162.0197	26.52	14.62	41.14	43.50	-2.36		Vertical
195.8701	25.30	16.14	41.44	43.50	-2.06		Vertical
259.4433	25.29	18.52	43.81	46.00	-2.19		Vertical
328.3068	22.55	19.69	42.24	46.00	-3.76		Vertical
98.7215	25.24	14.01	39.25	43.50	-4.25		Horizontal
130.3048	22.64	14.89	37.53	43.50	-5.97		Horizontal
162.0197	26.79	14.62	41.41	43.50	-2.09		Horizontal
195.8701	23.61	16.02	39.63	43.50	-3.87		Horizontal
259.4433	24.23	18.52	42.75	46.00	-3.25		Horizontal
328.3068	23.82	19.69	43.51	46.00	-2.49		Horizontal

### For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor Corr. (dB)	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB $\mu$ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2462.000	76.37	76.59	-7.35	69.02	69.24	-	-	-	-	Vertical
*4924.038	46.15	46.21	0.34	46.49	46.55	54	74	-7.51	-27.45	Vertical
2462.000	74.54	74.72	-7.35	67.19	67.37	-	-	-	-	Horizontal
*4924.038	42.16	42.27	0.34	42.50	42.61	54	74	-11.50	-31.39	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. \*: Denotes restricted band of operation.

Date of Test: January 11, 2012  
 EUT: Wimo  
 Model No.: wimo wf  
 Test Mode: 802.11g Channel Low 2412MHz

Temperature: 25°C  
 Humidity: 50%  
 Power Supply: DC 3.7V  
 Test Engineer: Pei

### For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor Corr. (dB)	Result	Limit	Margin (dB)	Polarization
			QP	QP		
98.7215	27.27	13.94	41.21	43.50	-2.29	Vertical
130.3048	26.09	14.89	40.98	43.50	-2.52	Vertical
162.0197	26.73	14.62	41.35	43.50	-2.15	Vertical
195.8701	25.18	16.14	41.32	43.50	-2.18	Vertical
259.4433	22.98	18.52	41.50	46.00	-4.50	Vertical
328.3068	23.02	19.69	42.71	46.00	-3.29	Vertical
98.7215	27.27	14.01	41.28	43.50	-2.22	Horizontal
130.3048	26.04	14.89	40.93	43.50	-2.57	Horizontal
162.0197	26.58	14.62	41.20	43.50	-2.30	Horizontal
195.8701	24.71	16.02	40.73	43.50	-2.77	Horizontal
259.4433	25.21	18.52	43.73	46.00	-2.27	Horizontal
328.3068	24.05	19.69	43.74	46.00	-2.26	Horizontal

### For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor Corr. (dB)	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB $\mu$ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2412.000	72.66	72.93	-7.43	65.23	65.50	-	-	-	-	Vertical
*4824.031	40.00	41.62	-0.19	39.81	41.43	54	74	-14.19	-32.57	Vertical
2412.000	74.55	79.58	-7.43	67.12	72.15	-	-	-	-	Horizontal
*4824.031	40.00	41.20	-0.19	39.81	41.01	54	74	-14.19	-32.99	Horizontal

**Note:** 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. \*: Denotes restricted band of operation.

Date of Test:	January 11, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	DC 3.7V
Test Mode:	802.11g Channel Middle 2437MHz	Test Engineer:	Pei

### For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor Corr. (dB)	Result	Limit	Margin	Polarization
			QP	QP	QP	
98.7215	27.28	13.94	41.22	43.50	-2.28	Vertical
130.3048	26.32	14.89	41.21	43.50	-2.29	Vertical
162.0197	26.45	14.62	41.07	43.50	-2.43	Vertical
195.8701	25.59	16.14	41.73	43.50	-1.77	Vertical
259.4433	22.17	18.52	40.69	46.00	-5.31	Vertical
328.3068	22.87	19.69	42.56	46.00	-3.44	Vertical
98.7215	27.23	14.01	41.24	43.50	-2.26	Horizontal
130.3048	26.19	14.89	41.08	43.50	-2.42	Horizontal
162.0197	26.41	14.62	41.03	43.50	-2.47	Horizontal
195.8701	25.20	16.02	41.22	43.50	-2.28	Horizontal
259.4433	25.14	18.52	43.66	46.00	-2.34	Horizontal
328.3068	24.01	19.69	43.70	46.00	-2.30	Horizontal

### For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor Corr. (dB)	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB $\mu$ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2437.000	72.62	72.82	-7.36	65.26	65.46	-	-	-	-	Vertical
*4874.110	44.17	44.31	0.09	44.26	44.40	54	74	-9.74	-29.60	Vertical
2437.000	75.06	81.23	-7.36	67.70	73.87	-	-	-	-	Horizontal
*4874.110	41.83	49.42	0.09	41.92	49.51	54	74	-12.08	-24.49	Horizontal

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. \*: Denotes restricted band of operation.**

Date of Test: January 11, 2012  
 EUT: Wimo  
 Model No.: wimo wf  
 Test Mode: 802.11g Channel High 2462MHz

Temperature: 25°C  
 Humidity: 50%  
 Power Supply: DC 3.7V  
 Test Engineer: Pei

### For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor Corr.	Result (dB $\mu$ V/m)		Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
			QP	(dB)	QP	QP	
98.7215	27.51	13.94	41.45		43.50	-2.05	Vertical
130.3048	26.23	14.89	41.12		43.50	-2.38	Vertical
162.0197	26.45	14.62	41.07		43.50	-2.43	Vertical
195.8701	25.14	16.14	41.28		43.50	-2.22	Vertical
259.4433	23.07	18.52	41.59		46.00	-4.41	Vertical
328.3068	21.10	19.69	40.79		46.00	-5.21	Vertical
98.7215	27.20	14.01	41.21		43.50	-2.29	Horizontal
130.3048	26.04	14.89	40.93		43.50	-2.57	Horizontal
162.0197	26.73	14.62	41.35		43.50	-2.15	Horizontal
195.8701	25.23	16.02	41.25		43.50	-2.25	Horizontal
259.4433	25.13	18.52	43.65		46.00	-2.35	Horizontal
328.3068	24.04	19.69	43.73		46.00	-2.27	Horizontal

### For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor Corr. (dB)	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB $\mu$ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2462.000	77.21	77.33	-7.35	69.86	69.98	-	-	-	-	Vertical
*4924.105	43.29	43.47	0.34	43.63	43.81	54	74	-10.37	-30.19	Vertical
2462.000	78.42	78.60	-7.35	71.07	71.25	-	-	-	-	Horizontal
*4924.105	44.83	45.05	0.34	45.17	45.39	54	74	-8.83	-28.61	Horizontal

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. \*: Denotes restricted band of operation.**

Date of Test: January 11, 2012  
 EUT: Wimo  
 Model No.: wimo wf  
 Test Mode: 802.11n Channel Low 2412MHz

Temperature: 25°C  
 Humidity: 50%  
 Power Supply: DC 3.7V  
 Test Engineer: Pei

### For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor Corr. (dB)	Result	Limit	Margin (dB)	Polarization
			QP	QP		
98.7215	27.51	13.94	41.45	43.50	-2.05	Vertical
130.3048	26.21	14.89	41.10	43.50	-2.40	Vertical
162.0197	26.72	14.62	41.34	43.50	-2.16	Vertical
195.8701	25.27	16.14	41.41	43.50	-2.09	Vertical
259.4433	21.29	18.52	39.81	46.00	-6.19	Vertical
328.3068	21.57	19.69	41.26	46.00	-4.74	Vertical
98.7215	26.88	14.01	40.89	43.50	-2.61	Horizontal
130.3048	25.47	14.89	40.36	43.50	-3.14	Horizontal
162.0197	26.26	14.62	40.88	43.50	-2.62	Horizontal
195.8701	25.16	16.02	41.18	43.50	-2.32	Horizontal
259.4433	25.06	18.52	43.58	46.00	-2.42	Horizontal
328.3068	23.08	19.69	42.77	46.00	-3.23	Horizontal

### For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor Corr. (dB)	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB $\mu$ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2412.000	71.52	71.73	-7.43	64.09	64.30	-	-	-	-	Vertical
*4824.101	40.00	41.01	-0.19	39.81	40.82	54	74	-14.19	-33.18	Vertical
2412.000	73.34	73.63	-7.43	65.91	66.20	-	-	-	-	Horizontal
*4824.101	41.40	41.64	-0.19	41.21	41.45	54	74	-12.79	-32.55	Horizontal

**Note:** 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. \*: Denotes restricted band of operation.

Date of Test: January 11, 2012  
 EUT: Wimo  
 Model No.: wimo wf  
 Test Mode: 802.11n Channel Middle 2437MHz

Temperature: 25°C  
 Humidity: 50%  
 Power Supply: DC 3.7V  
 Test Engineer: Pei

### For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor Corr.	Result	Limit	Margin (dB)	Polarization
			QP	QP		
98.7215	27.28	13.94	41.22	43.50	-2.28	Vertical
130.3048	25.76	14.89	40.65	43.50	-2.85	Vertical
162.0197	25.27	14.62	39.89	43.50	-3.61	Vertical
195.8701	25.37	16.14	41.87	43.50	-1.63	Vertical
259.4433	22.39	18.52	40.91	46.00	-5.09	Vertical
328.3068	21.27	19.69	40.96	46.00	-5.04	Vertical
98.7215	26.58	14.01	40.59	43.50	-2.91	Horizontal
130.3048	25.22	14.89	40.11	43.50	-3.39	Horizontal
162.0197	26.86	14.62	41.48	43.50	-2.02	Horizontal
195.8701	24.77	16.02	40.79	43.50	-2.71	Horizontal
259.4433	24.60	18.52	43.12	46.00	-2.88	Horizontal
328.3068	23.27	19.69	42.96	46.00	-3.04	Horizontal

### For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor Corr. (dB)	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB $\mu$ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2437.000	72.48	72.70	-7.43	65.05	65.27	-	-	-	-	Vertical
*4874.120	44.15	44.28	0.09	44.24	44.37	54	74	-9.76	-9.63	Vertical
2437.000	75.45	78.92	-7.36	68.09	71.29	-	-	-	-	Horizontal
*4874.120	42.31	44.57	0.09	42.40	44.66	54	74	-11.60	-29.34	Horizontal

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. \*: Denotes restricted band of operation.

Date of Test:	January 11, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	DC 3.7V
Test Mode:	802.11n Channel High 2462MHz	Test Engineer:	Pei

### For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dB $\mu$ V/m)	Factor Corr.	Result (dB $\mu$ V/m)		Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
			QP	QP			
98.7215	27.40	13.94	41.34	43.50	-2.16		Vertical
130.3048	25.87	14.89	40.76	43.50	-2.74		Vertical
162.0197	26.19	14.62	40.81	43.50	-2.69		Vertical
195.8701	25.35	16.14	41.49	43.50	-2.01		Vertical
259.4433	23.76	18.52	42.28	46.00	-3.72		Vertical
328.3068	22.45	19.69	42.14	46.000	-3.86		Vertical
98.7215	27.47	14.01	41.48	43.50	-2.02		Horizontal
130.3048	26.27	14.89	41.16	43.50	-2.34		Horizontal
162.0197	27.20	14.62	41.82	43.50	-1.68		Horizontal
195.8701	25.17	16.02	41.19	43.50	-2.31		Horizontal
259.4433	25.06	18.52	43.58	46.00	-2.42		Horizontal
328.3068	23.78	19.69	43.47	46.00	-2.53		Horizontal

### For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB $\mu$ V/m)		Factor Corr. (dB)	Result(dB $\mu$ V/m)		Limit(dB $\mu$ V/m)		Margin(dB $\mu$ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2462.000	76.11	76.29	-7.35	68.76	68.94	-	-	-	-	Vertical
*4924.121	46.42	46.75	0.34	46.76	47.09	54	74	-7.24	-26.91	Vertical
2462.000	75.08	75.25	-7.35	67.73	67.90	-	-	-	-	Horizontal
*4924.121	40.00	40.16	0.34	40.34	40.50	54	74	-13.66	-33.50	Horizontal

**Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.**

**2. \*: Denotes restricted band of operation.**



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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #1715	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 12/01/10/									
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 9/05/58									
EUT: Wimo	Engineer Signature: Kai									
Mode: TX Channel 1 (802.11b)	Distance: 3m									
Model: wimo wf										
Manufacturer: Italcom Group										
Note: Report No.:ATE20120041										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.7215	27.28	14.01	41.29	43.50	-2.21	QP			
2	120.6118	24.66	14.72	39.38	43.50	-4.12	QP			
3	162.0197	26.40	14.82	41.02	43.50	-2.48	QP			
4	195.8701	25.17	16.02	41.19	43.50	-2.31	QP			
5	259.4433	25.22	18.52	43.74	46.00	-2.26	QP			
6	328.3068	24.25	19.89	43.94	46.00	-2.06	QP			



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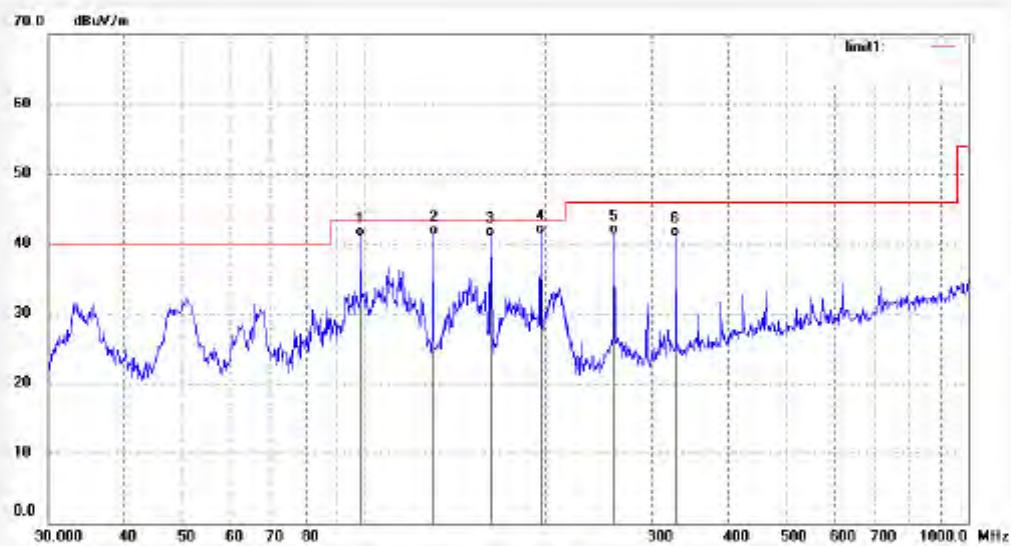
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1716  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 24 C / 48 %  
EUT: Wimo  
Mode: TX Channel 1 (802.11b)  
Model: wimo wf  
Manufacturer: Italcom Group

Polarization: Vertical  
Power Source: AC 120V/60Hz  
Date: 12/01/10/  
Time: 9/07/48  
Engineer Signature: Kai  
Distance: 3m

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.7215	27.03	13.94	40.97	43.50	-2.53	QP			
2	130.3048	26.31	14.89	41.20	43.50	-2.30	QP			
3	162.0197	26.47	14.82	41.09	43.50	-2.41	QP			
4	195.8701	25.19	16.14	41.33	43.50	-2.17	QP			
5	259.4433	22.93	18.52	41.45	46.00	-4.55	QP			
6	328.3068	21.36	19.69	41.05	46.00	-4.95	QP			



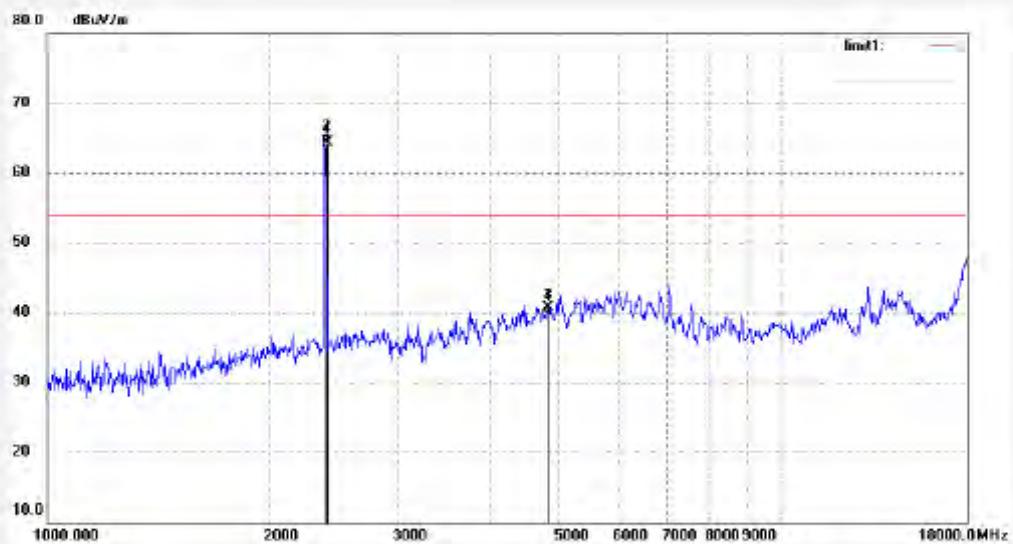
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F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 906 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503398

Job No.: Kai #1805	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/11/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 18:01:27
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 1 (802.11b)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.000	71.72	-7.43	64.29	—	--	peak			
2	2412.000	71.54	-7.43	64.11	—	--	Avg			
3	4824.028	40.99	-0.19	40.80	74.00	-33.20	peak			
4	4824.028	40.00	-0.19	39.81	54.00	-14.19	Avg			



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Site: 906 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #1804	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 12/01/11/									
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 17:55:36									
EUT: Wimo	Engineer Signature: Kai									
Mode: TX Channel 1 (802.11b)	Distance: 3m									
Model: wimo wf										
Manufacturer: Italcom Group										
Note: Report No.:ATE20120041										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.000	71.96	-7.43	64.53	—	--	peak			
2	2412.000	71.43	-7.43	64.00	—	--	Avg			
3	4824.028	41.63	-0.19	41.44	74.00	-32.56	peak			
4	4824.028	40.00	-0.19	39.81	54.00	-14.19	Avg			


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 Site: 966 chamber  
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 Fax:+86-0755-26503396

Job No.: Kai #1845

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/12/

Temp.( C)/Hum.(%) 25 C / 50 %

Time: 14:57:50

EUT: Wimo

Engineer Signature: Kai

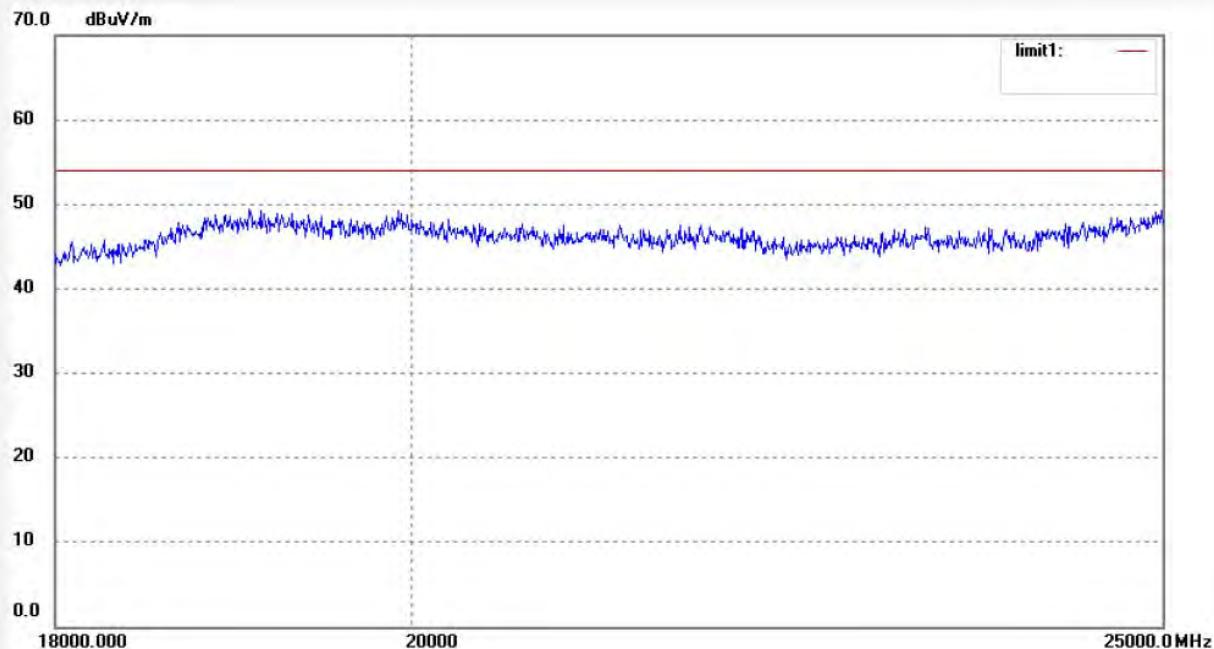
Mode: TX Channel 1 (802.11b)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



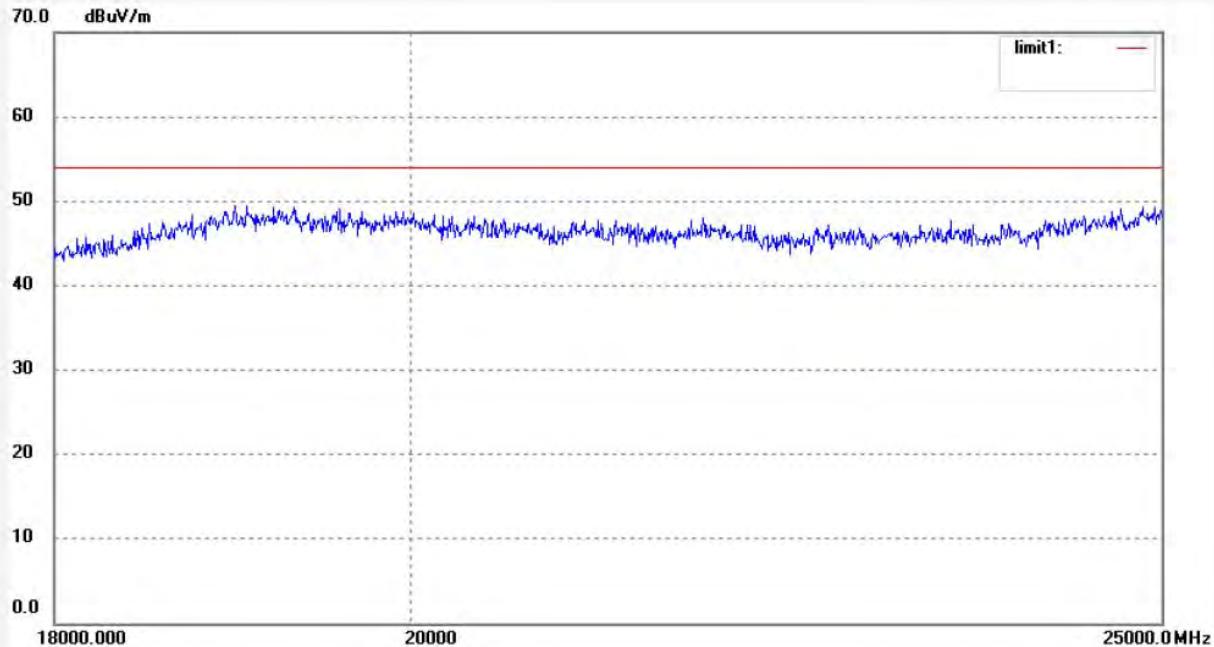
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 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Kai #1846	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/12/
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 15:01:26
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 1 (802.11b)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

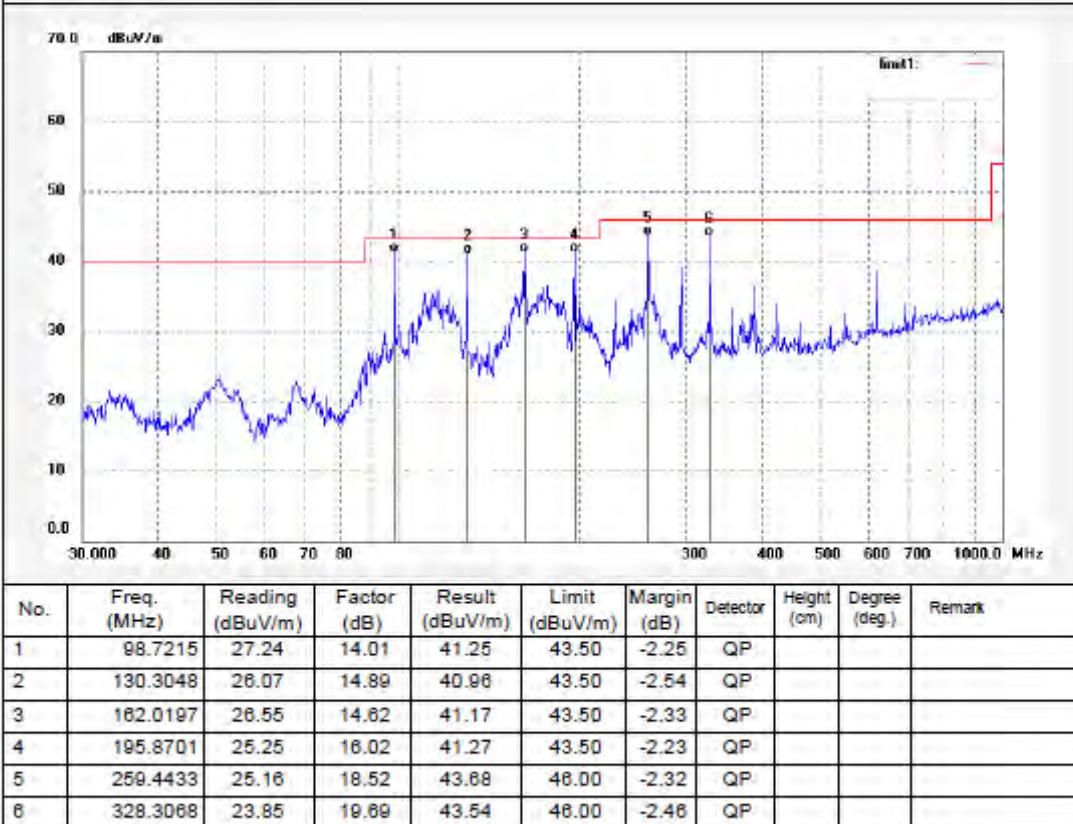


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Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1718	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/10/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 9/08/27
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 6 (802.11b)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	





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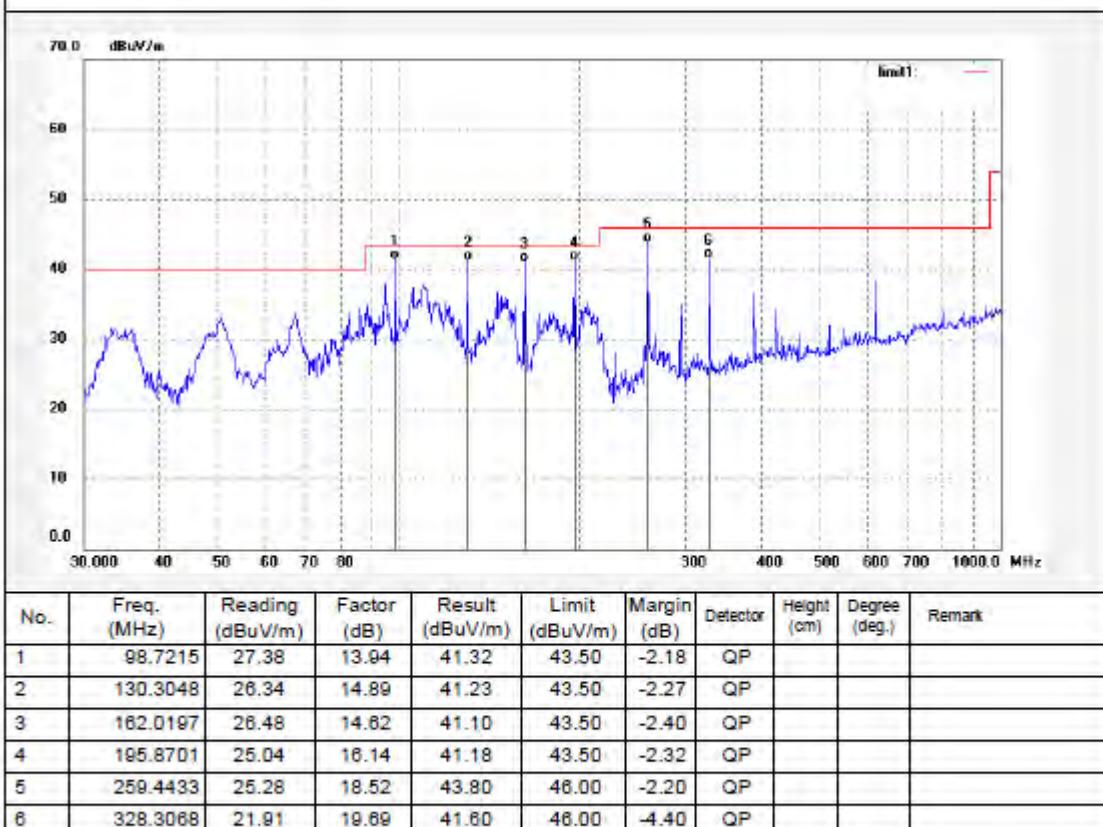
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 906 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #1717	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/10/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 9/08/36
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 6 (802.11b)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.: ATE20120041	





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Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1806

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/11

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 18:02:47

EUT: Wimo

Engineer Signature: Kai

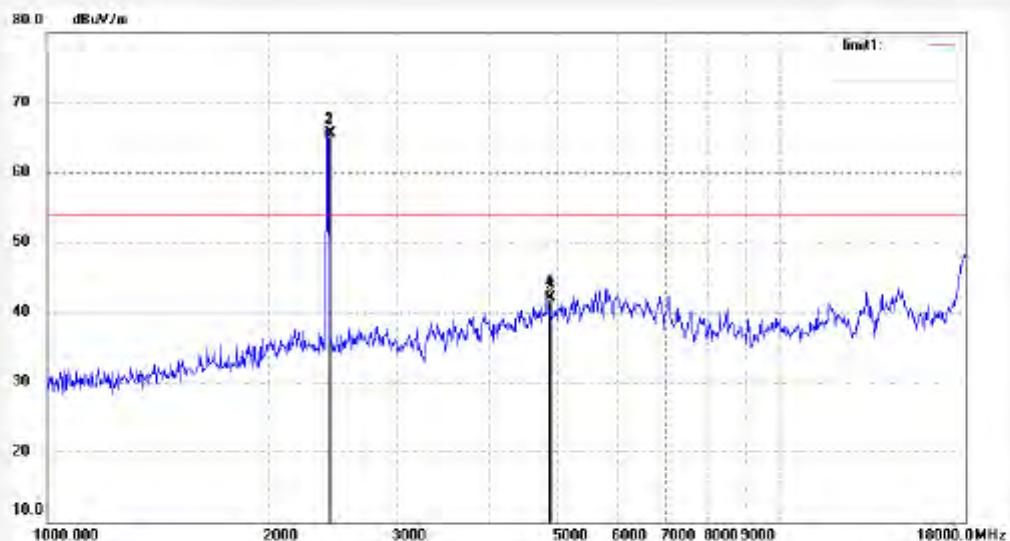
Mode: TX Channel 6 (802.11b)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.000	72.84	-7.36	65.48	--	--	peak			
2	2437.000	72.37	-7.36	65.01	--	--	Avg			
3	4874.030	41.96	0.09	42.05	74.00	-31.95	peak			
4	4874.030	41.59	0.09	41.68	54.00	-12.32	Avg			



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Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1807

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/11

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 18:03:59

EUT: Wimo

Engineer Signature: Kai

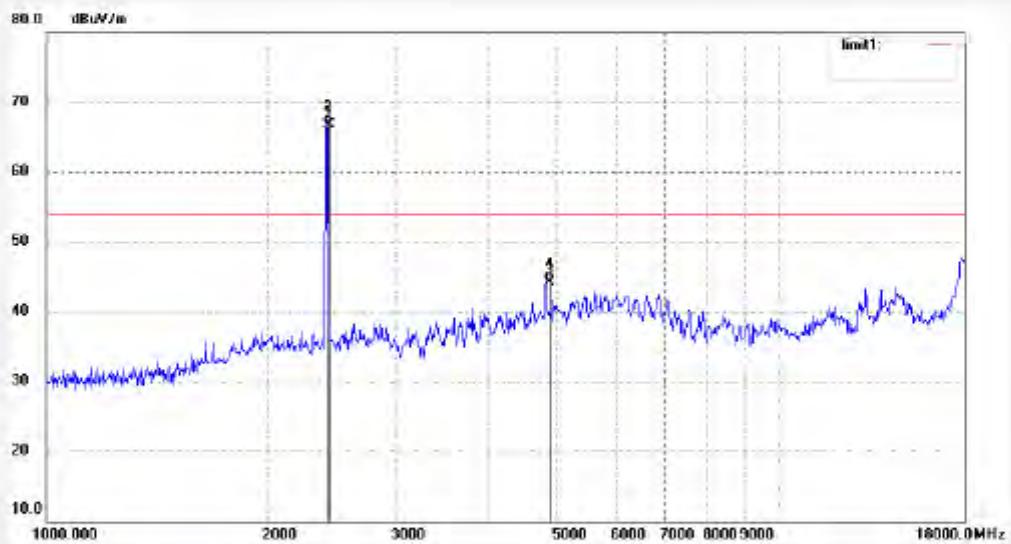
Mode: TX Channel 6 (802.11b)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.000	74.20	-7.36	66.84	—	—	peak			
2	2437.000	74.09	-7.36	66.73	—	—	Avg			
3	4874.030	44.13	0.09	44.22	74.00	-29.78	peak			
4	4874.030	44.07	0.09	44.16	54.00	-9.84	Avg			


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Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1848

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/12/

Temp.( C)/Hum.(%) 25 C / 50 %

Time: 15:09:14

EUT: Wimo

Engineer Signature: Kai

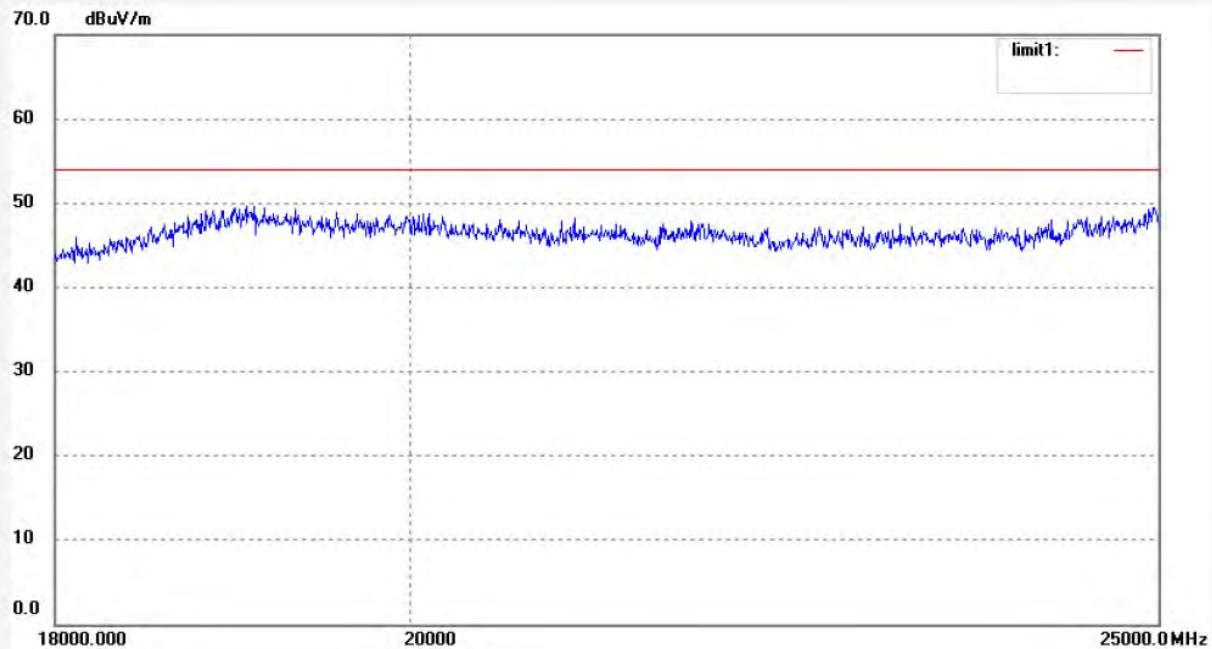
Mode: TX Channel 6 (802.11b)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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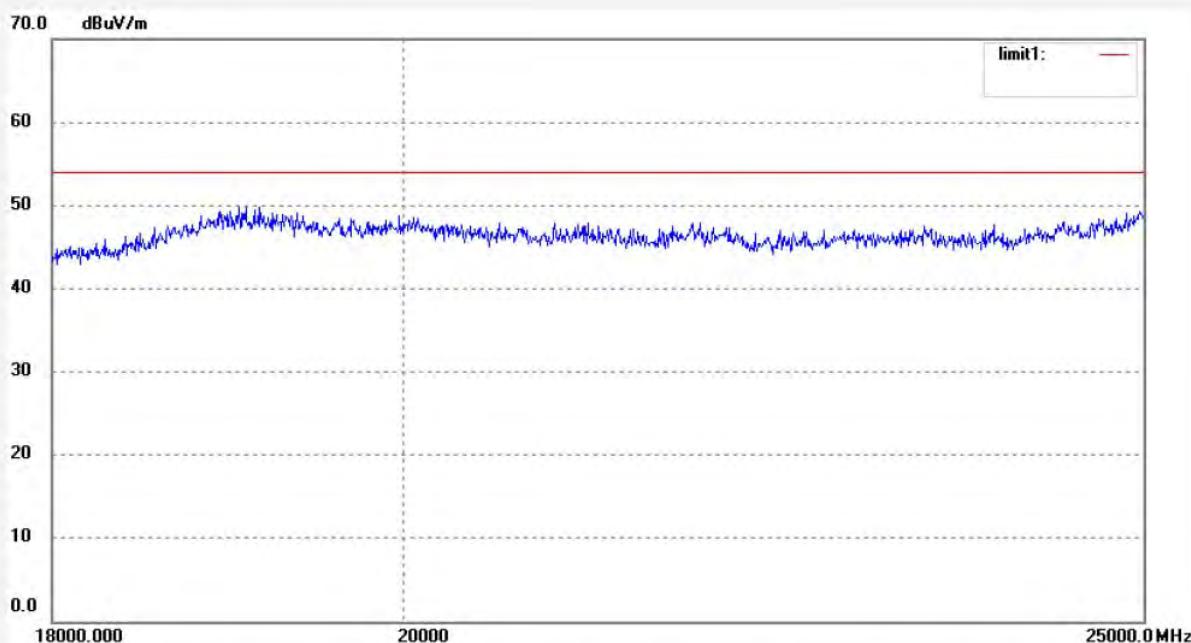
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1847  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 50 %  
EUT: Wimo  
Mode: TX Channel 6 (802.11b)  
Model: wimo wf  
Manufacturer: Italcom Group

Polarization: Vertical  
Power Source: AC 120V/60Hz  
Date: 12/01/12/  
Time: 15:05:40  
Engineer Signature: Kai  
Distance: 3m

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1719

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/80Hz

Test item: Radiation Test

Date: 12/01/10/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 9/09/55

EUT: Wimo

Engineer Signature: Kai

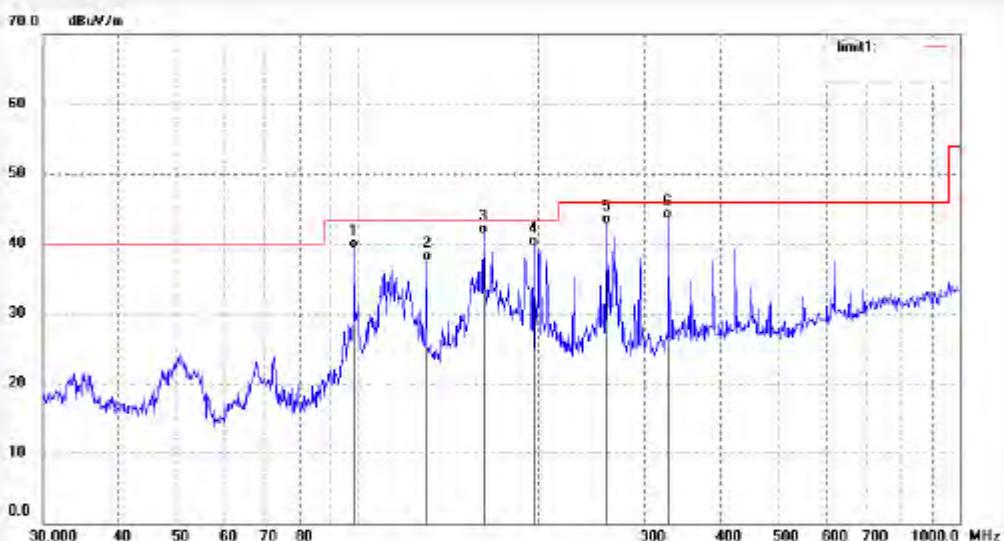
Mode: TX Channel 11 (802.11b)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Defector	Height (cm)	Degree (deg.)	Remark
1	98.7215	25.24	14.01	39.25	43.50	-4.25	QP			
2	130.3048	22.64	14.89	37.53	43.50	-5.97	QP			
3	162.0197	26.79	14.82	41.41	43.50	-2.09	QP			
4	195.8701	23.61	16.02	39.63	43.50	-3.87	QP			
5	250.4433	24.23	18.52	42.75	46.00	-3.25	QP			
6	328.3068	23.82	19.89	43.51	46.00	-2.49	QP			



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Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1720	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/10/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 9/10/56
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 11 (802.11b)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.7215	27.22	13.94	41.16	43.50	-2.34	QP			
2	130.3048	25.80	14.89	40.69	43.50	-2.81	QP			
3	162.0197	26.52	14.62	41.14	43.50	-2.36	QP			
4	195.8701	25.30	16.14	41.44	43.50	-2.06	QP			
5	259.4433	25.29	18.52	43.81	46.00	-2.19	QP			
6	328.3068	22.55	19.69	42.24	46.00	-3.76	QP			



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Site: 906 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1809	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/11/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 18:06:23
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 11 (802.11b)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	

No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.000	74.72	-7.35	67.37	—	—	peak			
2	2462.000	74.54	-7.35	67.19	—	—	Avg			
3	4924.038	42.27	0.34	42.81	74.00	-31.39	peak			
4	4924.038	42.16	0.34	42.50	54.00	-11.50	Avg			



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Site: 906 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1808	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 12/01/11/									
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 18:05:15									
EUT: Wimo	Engineer Signature: Kai									
Mode: TX Channel 11 (802.11b)	Distance: 3m									
Model: wimo wf										
Manufacturer: Italcom Group										
Note: Report No.:ATE20120041										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.000	76.59	-7.35	69.24	—	—	peak			
2	2462.000	76.37	-7.35	69.02	—	—	Avg			
3	4924.038	48.21	0.34	46.55	74.00	-27.45	peak			
4	4924.038	48.15	0.34	46.49	54.00	-7.51	Avg			


**ACCURATE TECHNOLOGY CO., LTD.**

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Kai #1849

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/12/

Temp.( C)/Hum.(%) 25 C / 50 %

Time: 15:13:25

EUT: Wimo

Engineer Signature: Kai

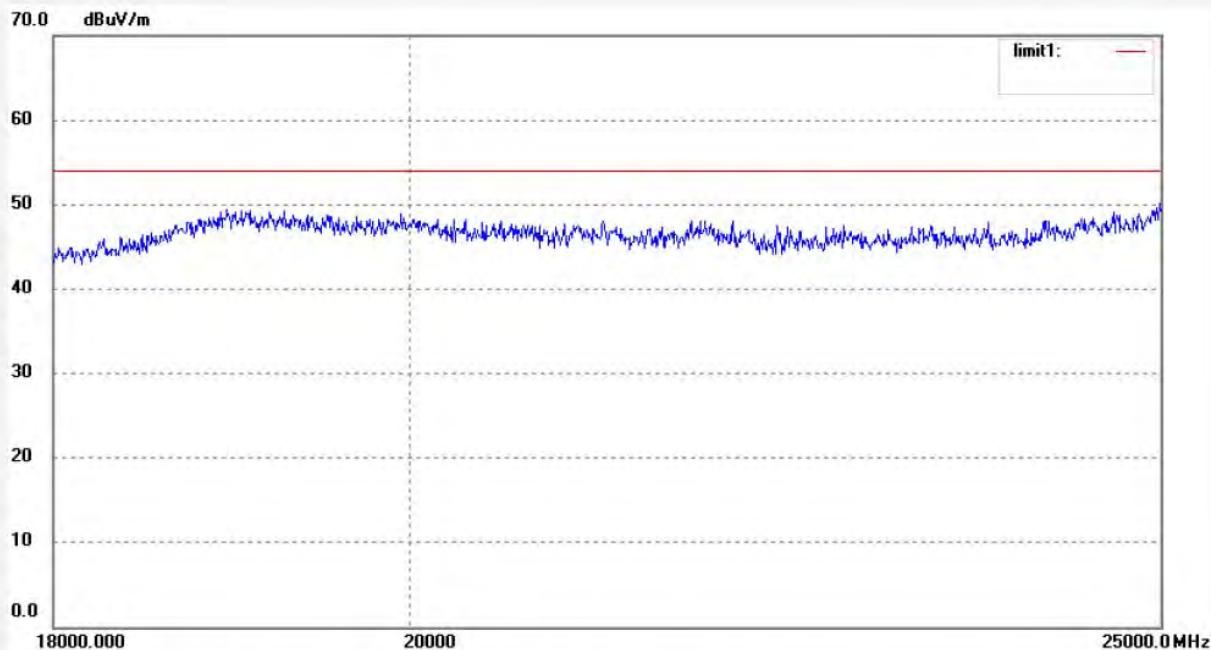
Mode: TX Channel 11 (802.11b)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Kai #1850

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/12/

Temp.( C)/Hum.(%) 25 C / 50 %

Time: 15:16:58

EUT: Wimo

Engineer Signature: Kai

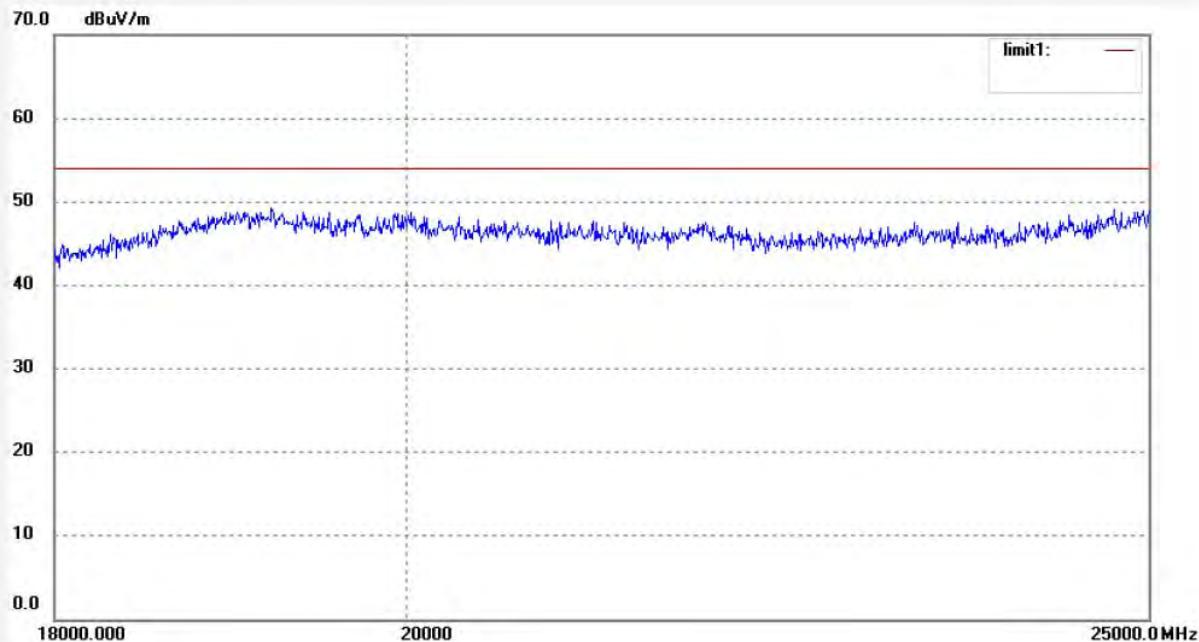
Mode: TX Channel 11 (802.11b)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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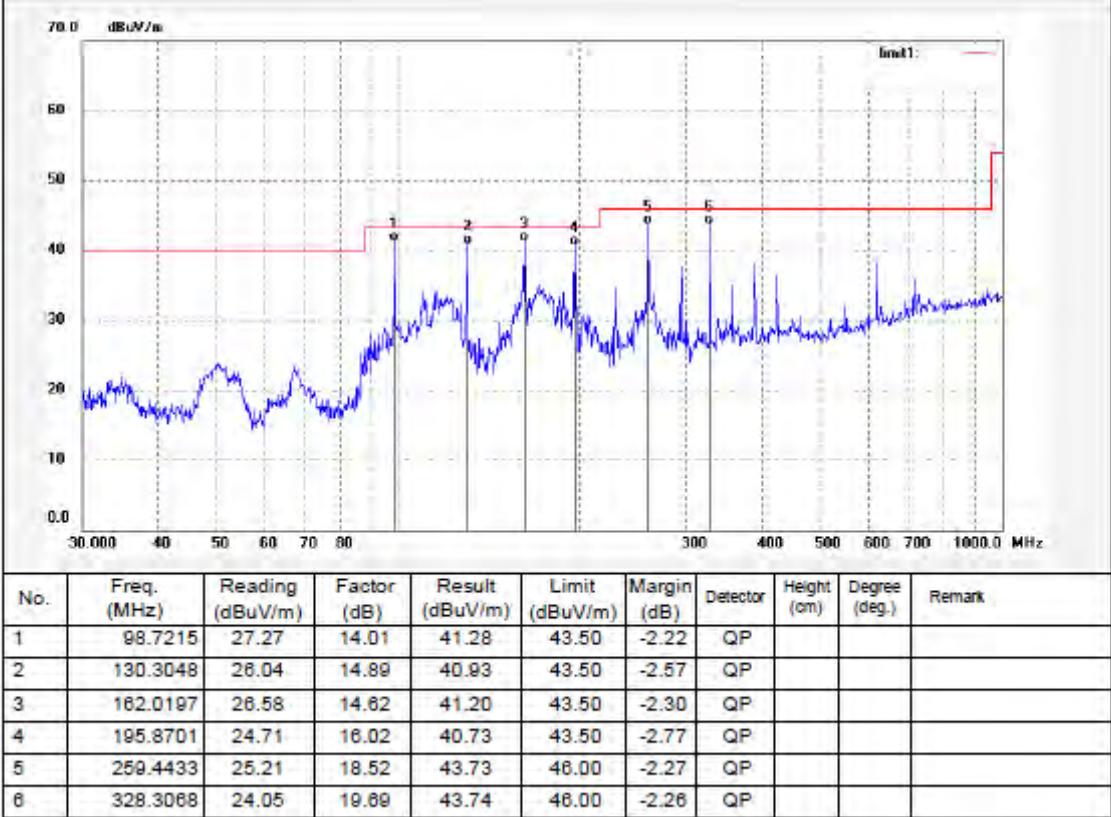


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 906 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1726	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/10/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 9/15/04
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 1 (802.11g)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.: ATE20120041	





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Site: 906 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1725	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 12/01/10/									
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 9/14/19									
EUT: Wimo	Engineer Signature: Kai									
Mode: TX Channel 1 (802.11g)	Distance: 3m									
Model: wimo wf										
Manufacturer: Italcom Group										
Note: Report No.:ATE20120041										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.7215	27.27	13.94	41.21	43.50	-2.29	QP			
2	130.3048	28.09	14.89	40.98	43.50	-2.52	QP			
3	162.0197	26.73	14.82	41.35	43.50	-2.15	QP			
4	195.8701	25.18	18.14	41.32	43.50	-2.18	QP			
5	250.4433	22.98	18.52	41.50	46.00	-4.50	QP			
6	328.3068	23.02	19.69	42.71	46.00	-3.29	QP			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1814	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 12/01/11/									
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 18:23:16									
EUT: Wimo	Engineer Signature: Kai									
Mode: TX Channel 1 (802.11g)	Distance: 3m									
Model: wimo wf										
Manufacturer: Italcom Group										
Note: Report No.:ATE20120041										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.000	79.58	-7.43	72.15	—	—	peak			
2	2412.000	74.55	-7.43	67.12	—	—	Avg			
3	4824.031	41.20	-0.19	41.01	74.00	-32.99	peak			
4	4824.031	40.00	-0.19	39.81	54.00	-14.19	Avg			



## ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1815

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/11

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 18:24:19

EUT: Wimo

Engineer Signature: Kai

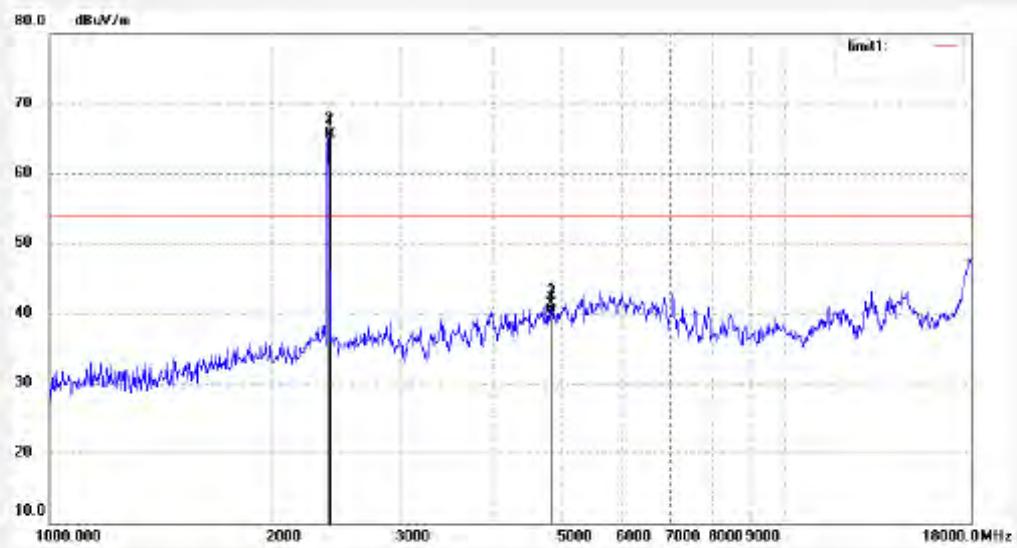
Mode: TX Channel 1 (802.11g)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.000	72.93	-7.43	65.50	--	--	peak			
2	2412.000	72.66	-7.43	65.23	--	--	AVG			
3	4824.031	41.62	-0.19	41.43	74.00	-32.57	peak			
4	4824.031	40.00	-0.19	39.81	54.00	-14.19	AVG			


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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1856

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/12/

Temp.( C)/Hum.(%) 25 C / 50 %

Time: 15:41:59

EUT: Wimo

Engineer Signature: Kai

Mode: TX Channel 11 (802.11g)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041

70.0 dB<sub>UV</sub>/m

60

50

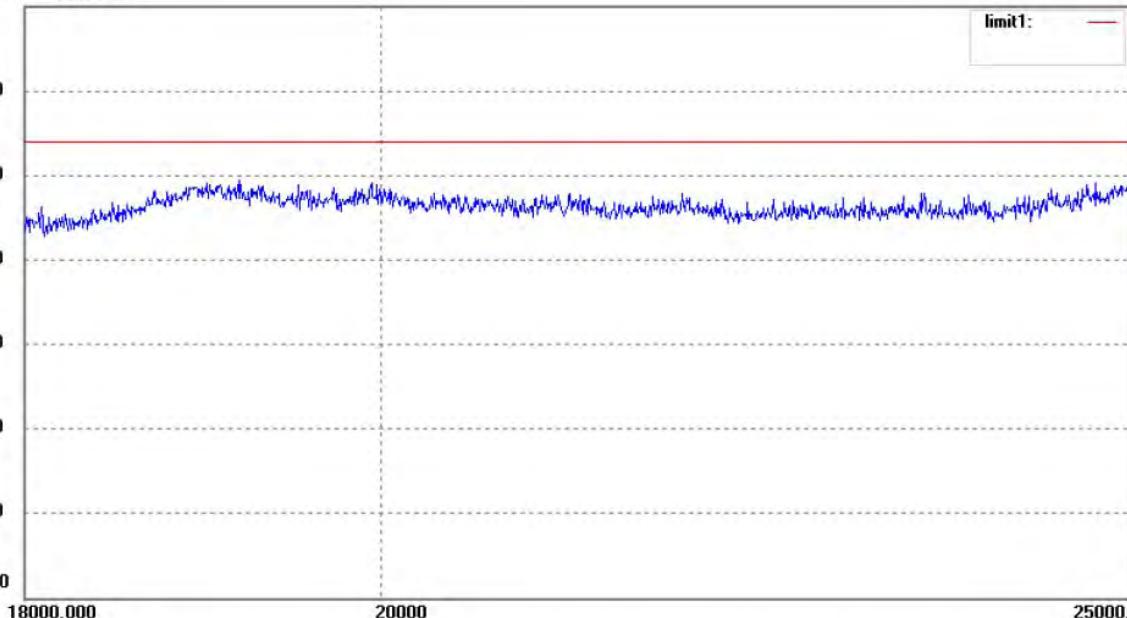
40

30

20

10

0.0



25000.0 MHz

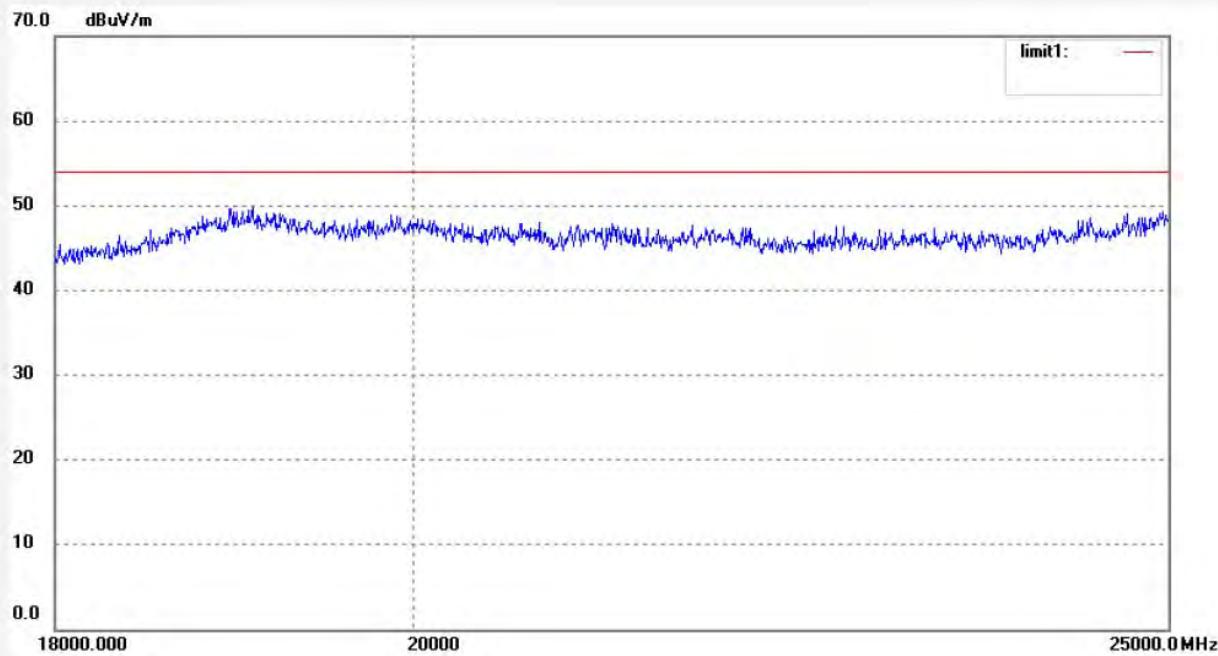
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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Kai #1855	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/12/
Temp. ( C)/Hum.(%) 25 C / 50 %	Time: 15:38:24
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 11 (802.11g)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark



## ACCURATE TECHNOLOGY CO., LTD.

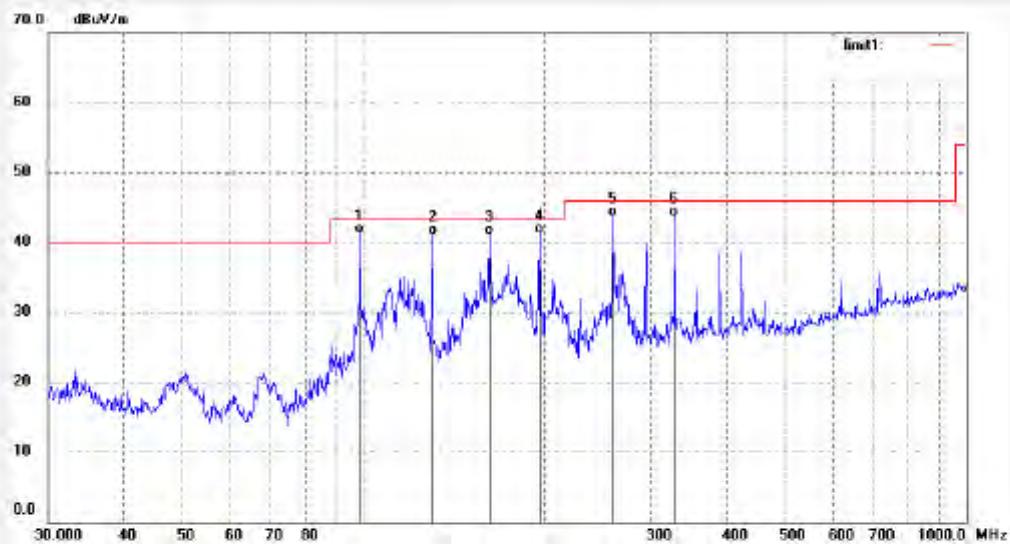
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 906 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #1723	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/10
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 9/12/54
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 6 (802.11g)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.7215	27.23	14.01	41.24	43.50	-2.28	QP			
2	130.3048	28.19	14.89	41.08	43.50	-2.42	QP			
3	162.0197	26.41	14.62	41.03	43.50	-2.47	QP			
4	195.8701	25.20	16.02	41.22	43.50	-2.28	QP			
5	259.4433	25.14	18.52	43.66	46.00	-2.34	QP			
6	328.3068	24.01	19.69	43.70	46.00	-2.30	QP			

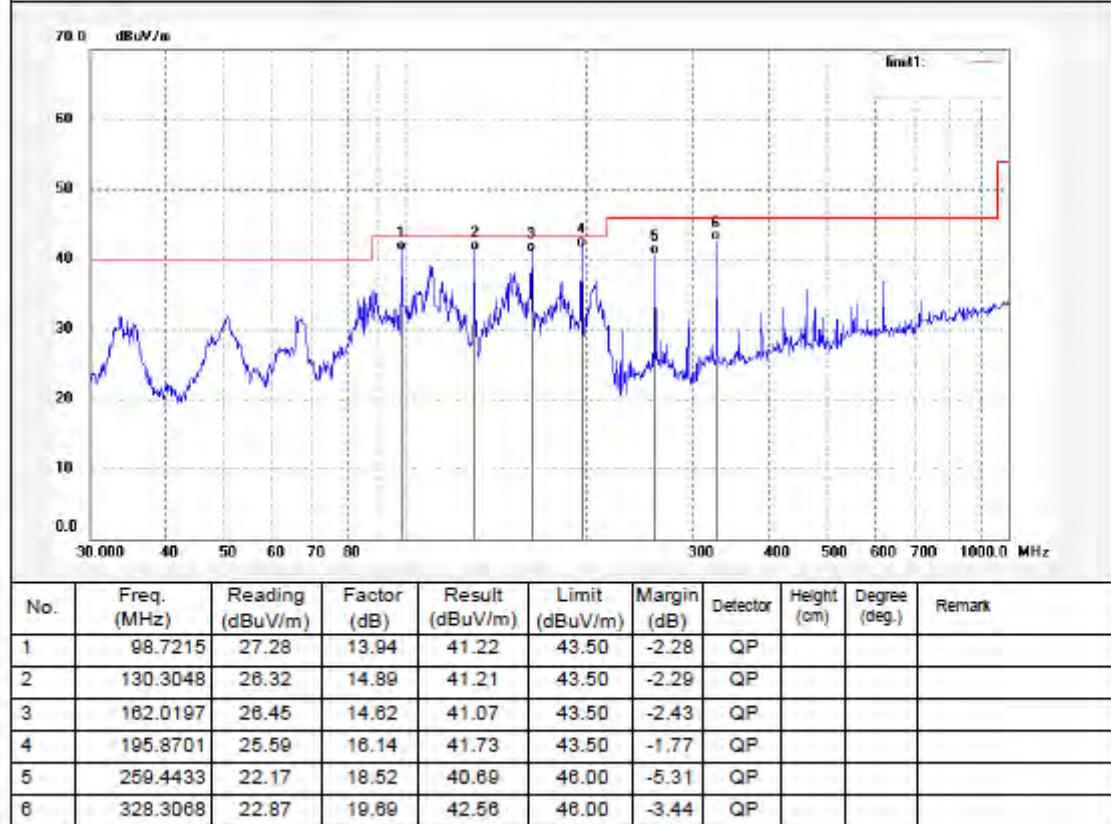


## ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1724	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/10/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 9/13/33
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 6 (802.11g)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	





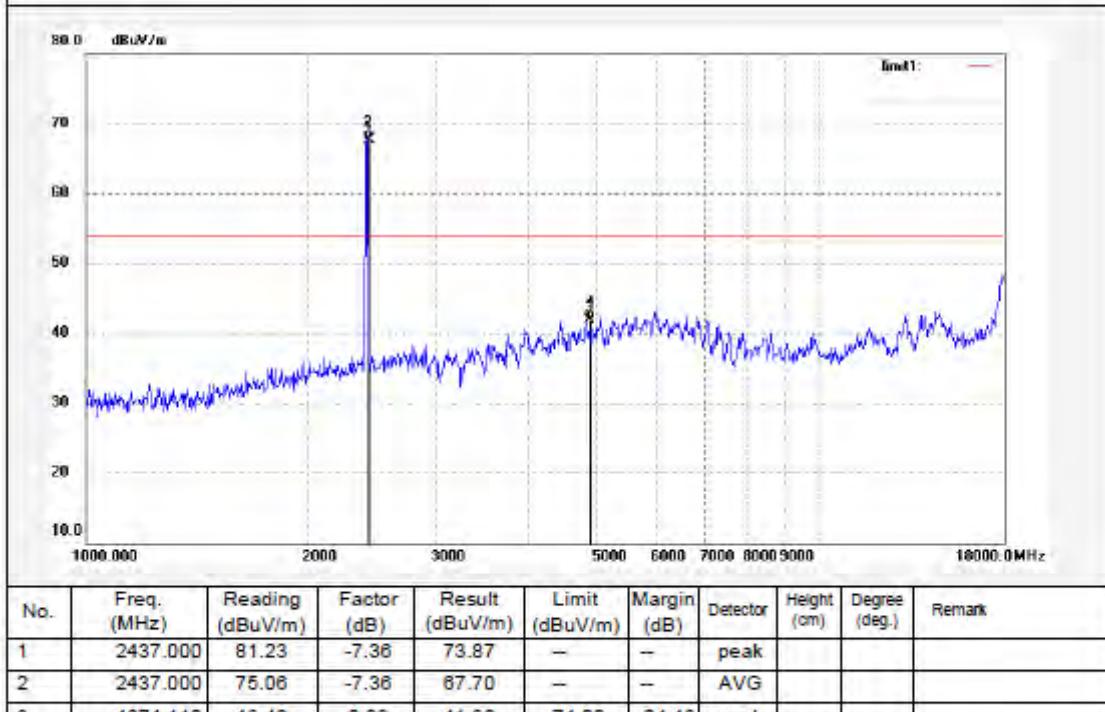
## ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1813	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/11/
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 18:21:53
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 6 (802.11g)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	

Note: Report No.:ATE20120041
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## ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

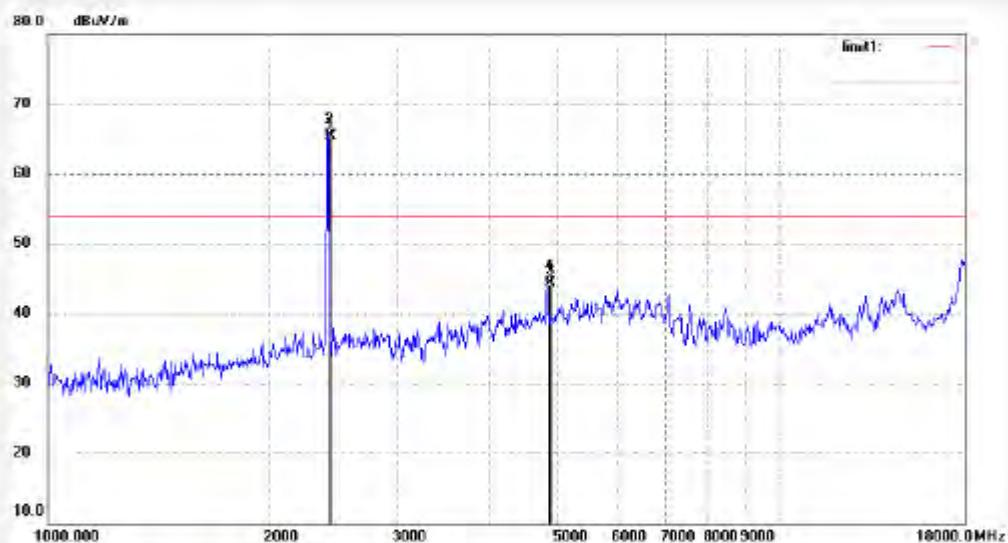
Site: 906 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #1812	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/11
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 18:20:45
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 6 (802.11g)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.000	72.82	-7.36	65.46	—	—	peak			
2	2437.000	72.62	-7.36	65.26	—	—	AVG			
3	4874.110	44.31	0.09	44.40	74.00	-29.60	peak			
4	4874.110	44.17	0.09	44.26	54.00	-9.74	AVG			


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Kai #1853

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/12/

Temp.( C)/Hum.(%) 25 C / 50 %

Time: 15:30:38

EUT: Wimo

Engineer Signature: Kai

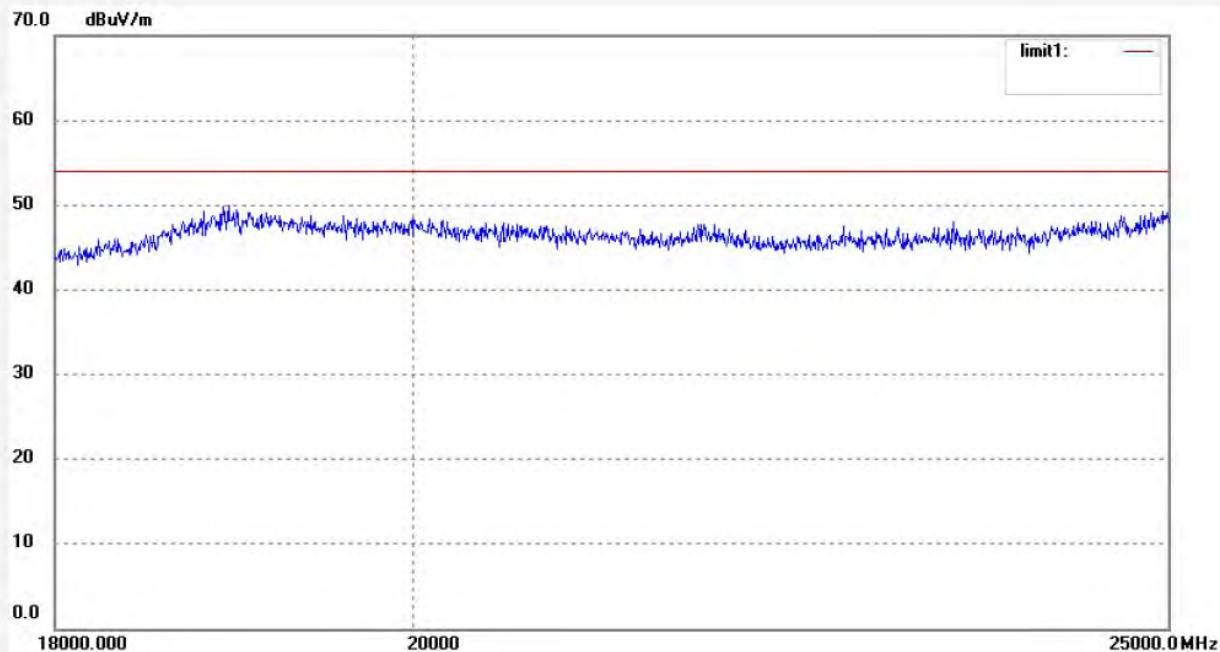
Mode: TX Channel 6 (802.11g)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



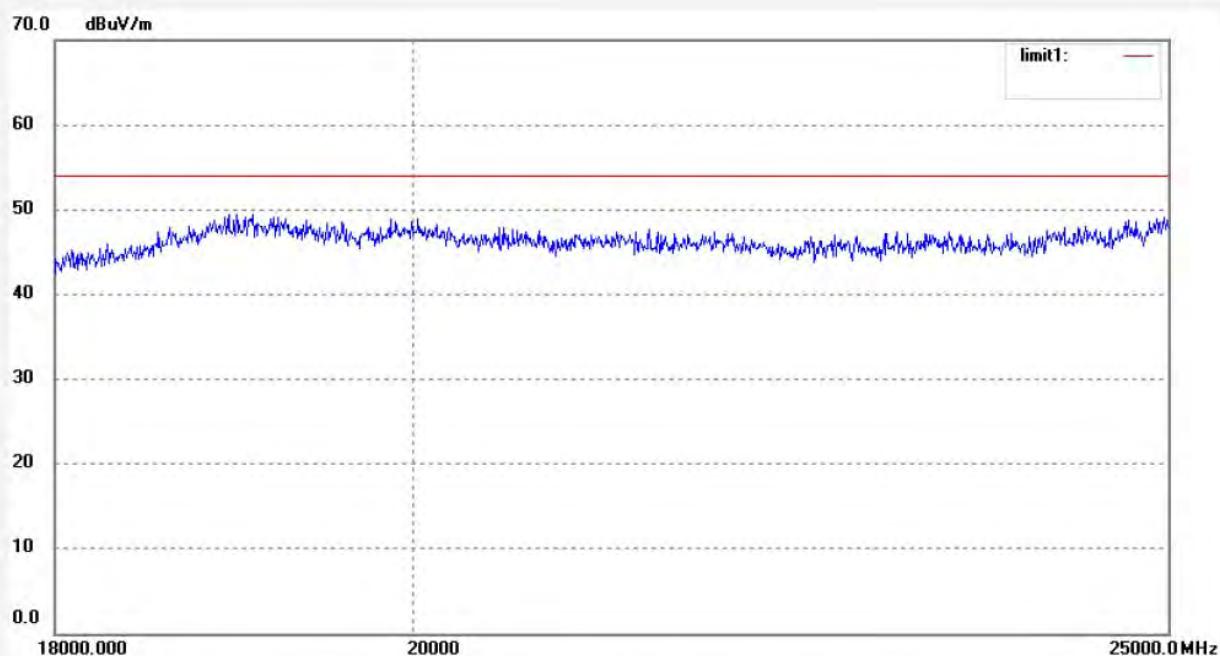
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1854	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/12/
Temp.( C)/Hum.(%) 25 C / 50 %	Time: 15:34:11
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 6 (802.11g)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark



## ACCURATE TECHNOLOGY CO., LTD.

F1.Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1722

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/10/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 9/12/28

EUT: Wimo

Engineer Signature: Kai

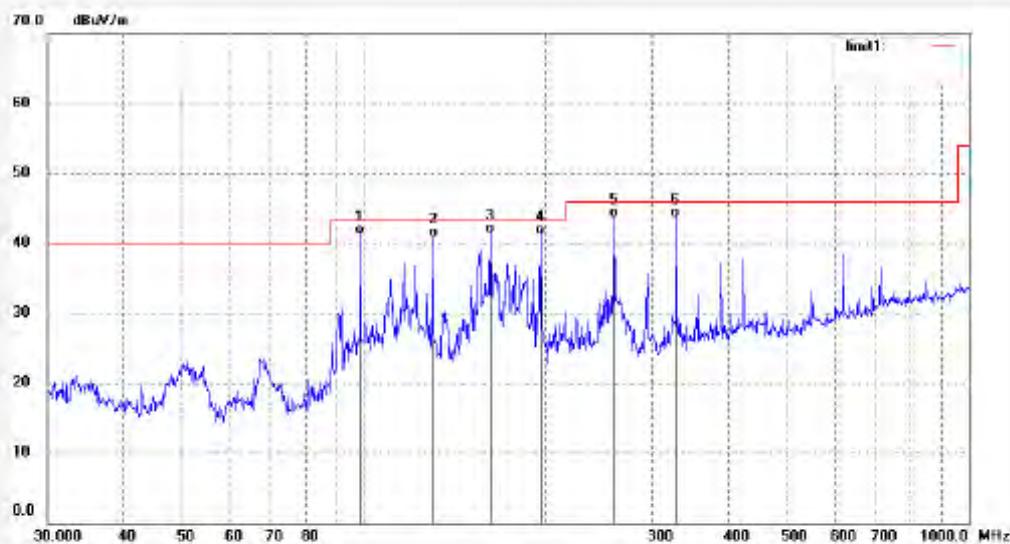
Mode: TX Channel 11 (802.11g)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.7215	27.20	14.01	41.21	43.50	-2.29	QP			
2	130.3048	26.04	14.89	40.93	43.50	-2.57	QP			
3	162.0197	26.73	14.82	41.35	43.50	-2.15	QP			
4	195.8701	25.23	16.02	41.25	43.50	-2.25	QP			
5	259.4433	25.13	18.52	43.65	46.00	-2.35	QP			
6	328.3068	24.04	19.69	43.73	46.00	-2.27	QP			



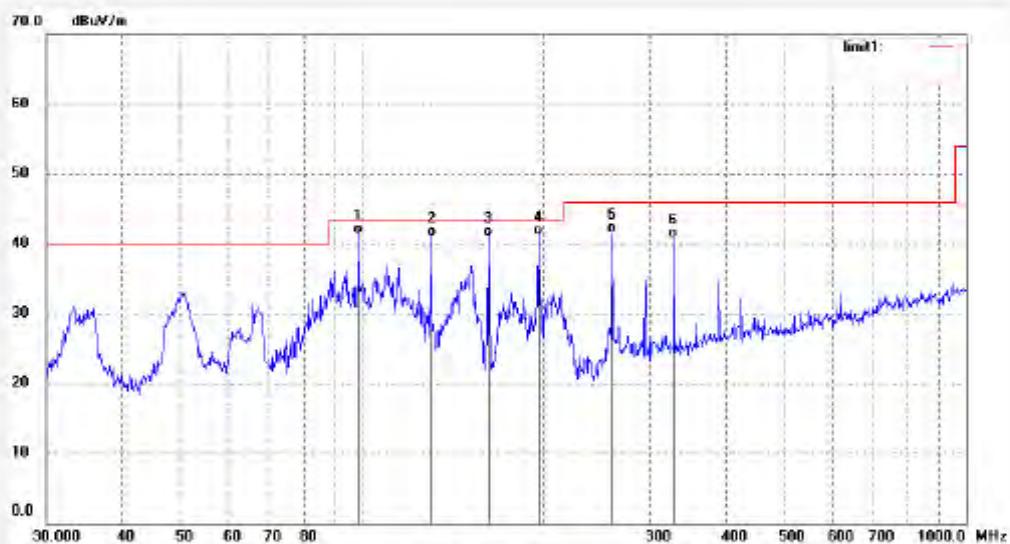
## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1721	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/10/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 9/11/32
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 11 (802.11g)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.7215	27.51	13.94	41.45	43.50	-2.05	QP			
2	130.3048	26.23	14.89	41.12	43.50	-2.38	QP			
3	162.0197	26.45	14.62	41.07	43.50	-2.43	QP			
4	195.8701	25.14	16.14	41.28	43.50	-2.22	QP			
5	259.4433	23.07	18.52	41.59	46.00	-4.41	QP			
6	328.3068	21.10	19.69	40.79	46.00	-5.21	QP			



## ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #1810	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 12/01/11/									
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 18:18:02									
EUT: Wimo	Engineer Signature: Kai									
Mode: TX Channel 11 (802.11g)	Distance: 3m									
Model: wimo wf										
Manufacturer: Italcom Group										
Note: Report No.:ATE20120041										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.000	78.80	-7.35	71.25	--	--	peak			
2	2462.000	78.42	-7.35	71.07	--	--	AVG			
3	4924.105	45.05	0.34	45.39	74.00	-28.61	peak			
4	4924.105	44.83	0.34	45.17	54.00	-8.83	AVG			

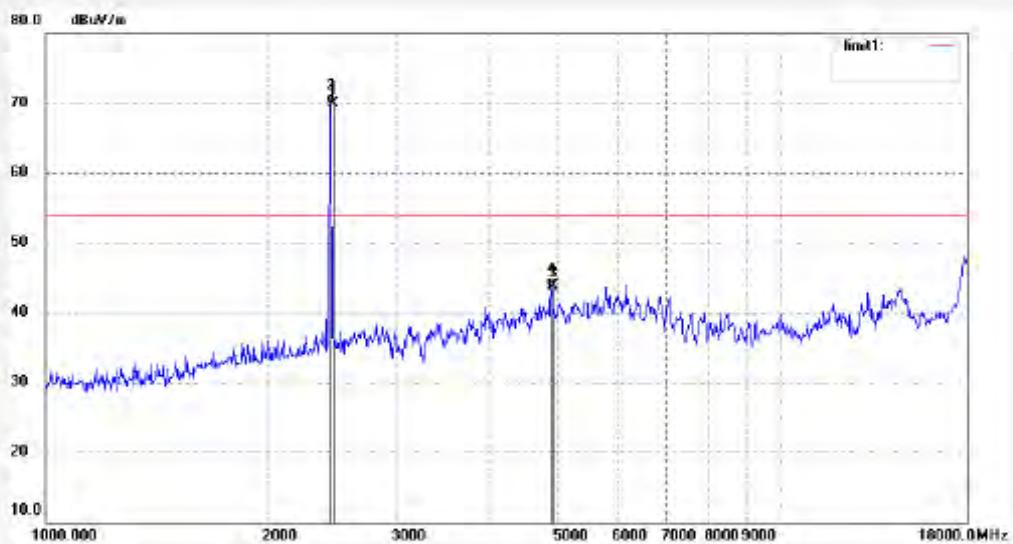


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 906 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1811	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/11/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 18:19:00
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 11 (802.11g)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.000	77.33	-7.35	69.98	—	—	peak			
2	2462.000	77.21	-7.35	69.86	—	—	Avg			
3	4924.105	43.47	0.34	43.81	74.00	-30.19	peak			
4	4924.105	43.29	0.34	43.63	54.00	-10.37	Avg			


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 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Kai #1856

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/12/

Temp.( C)/Hum.(%) 25 C / 50 %

Time: 15:41:59

EUT: Wimo

Engineer Signature: Kai

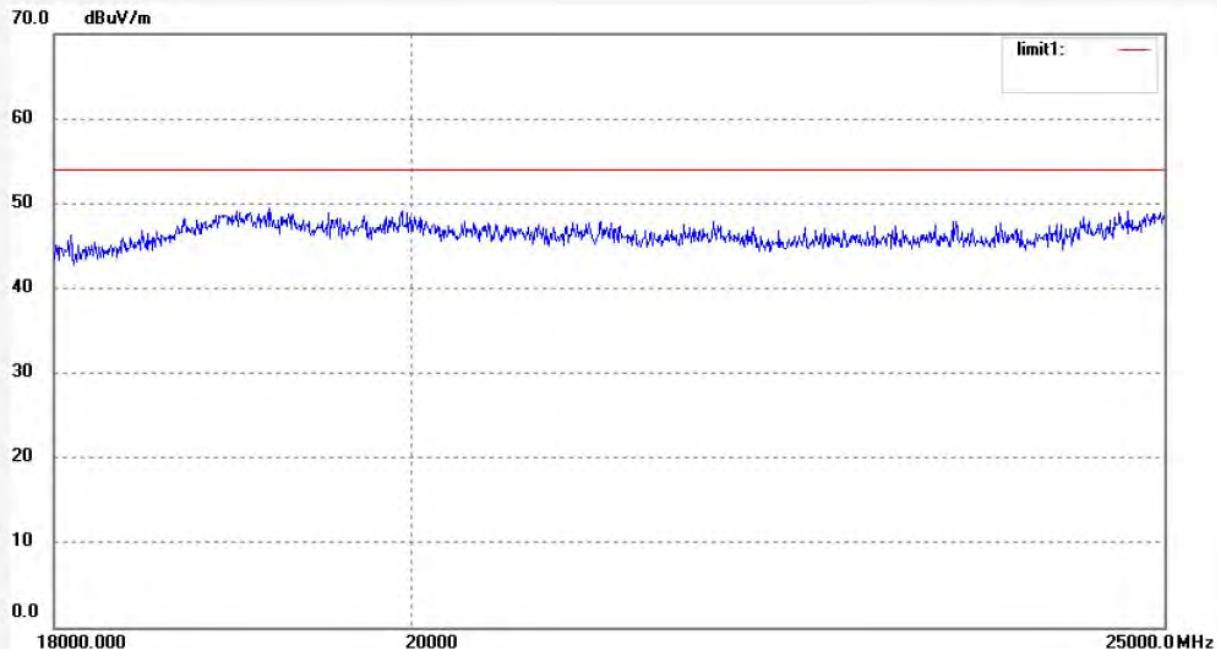
Mode: TX Channel 11 (802.11g)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1855

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/12/

Temp.( C)/Hum.(%) 25 C / 50 %

Time: 15:38:24

EUT: Wimo

Engineer Signature: Kai

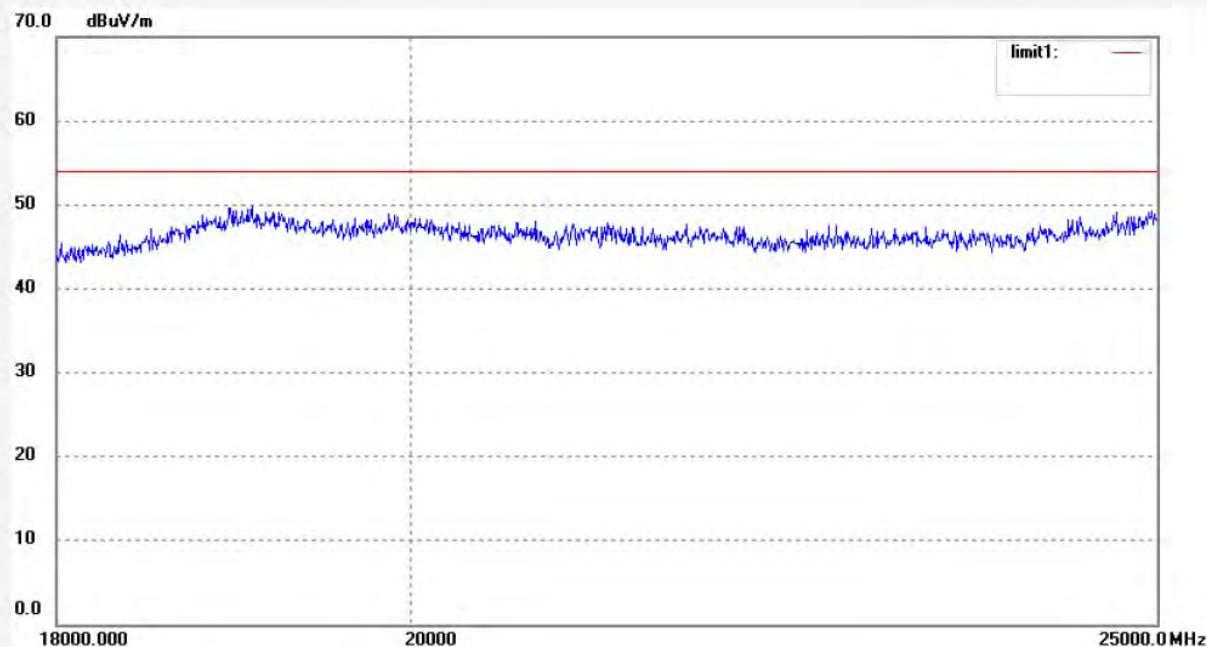
Mode: TX Channel 11 (802.11g)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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## ACCURATE TECHNOLOGY CO., LTD.

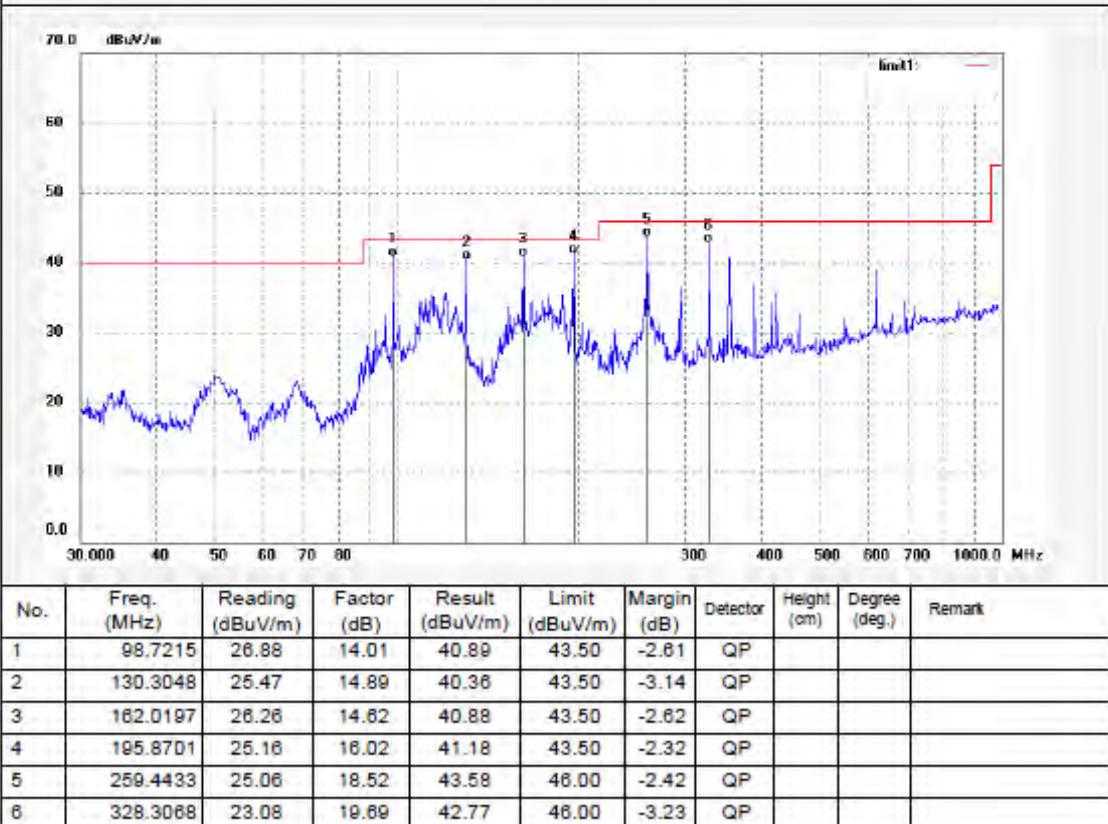
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Kai #1727	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/10/
Temp.( C) /Hum.(%) 24 C / 48 %	Time: 9/16/00
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 1 (802.11n)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.: ATE20120041	





## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1728

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/10/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 9/16/44

EUT: Wimo

Engineer Signature: Kai

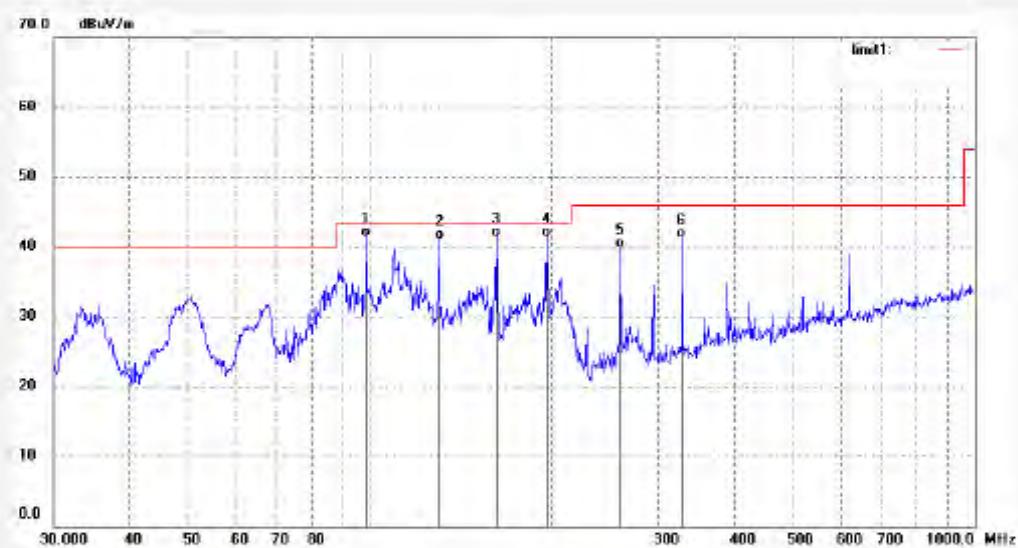
Mode: TX Channel 1 (802.11n)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.7215	27.51	13.94	41.45	43.50	-2.05	QP			
2	130.3048	26.21	14.89	41.10	43.50	-2.40	QP			
3	162.0197	26.72	14.82	41.34	43.50	-2.18	QP			
4	195.8701	25.27	16.14	41.41	43.50	-2.09	QP			
5	259.4433	21.29	18.52	39.81	46.00	-6.19	QP			
6	328.3068	21.57	19.89	41.26	46.00	-4.74	QP			



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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 906 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1817

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/11

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 18:26:12

EUT: Wimo

Engineer Signature: Kai

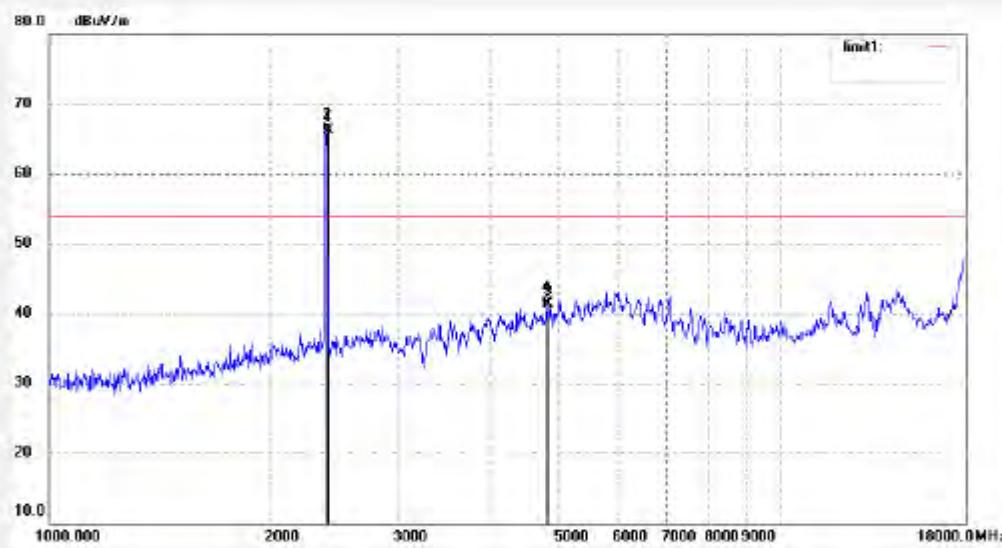
Mode: TX Channel 1 (802.11n)

Distance: 3m

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.000	73.63	-7.43	66.20	--	--	peak			
2	2412.000	73.34	-7.43	65.91	--	--	AVG			
3	4824.101	41.84	-0.19	41.45	74.00	-32.55	peak			
4	4824.101	41.40	-0.19	41.21	54.00	-12.79	AVG			

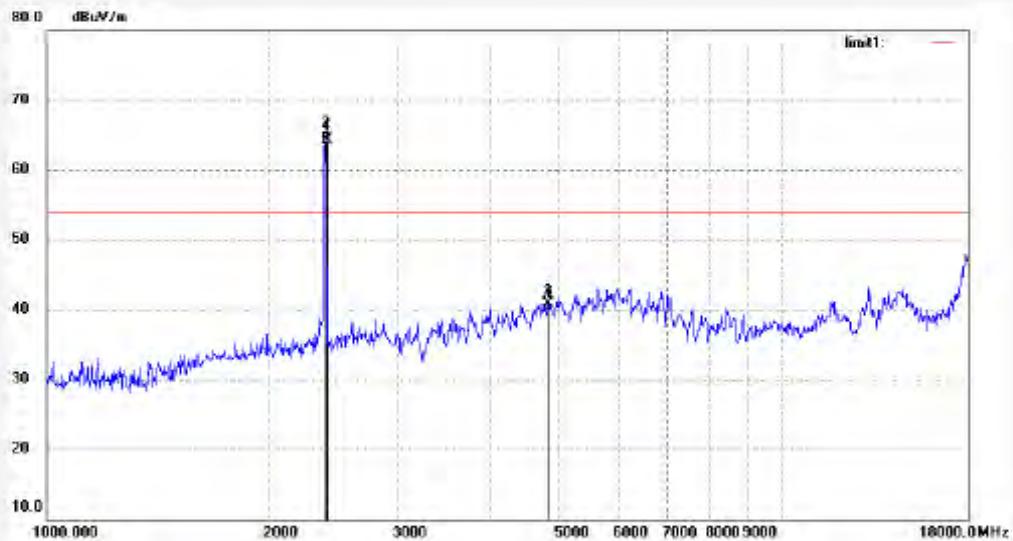


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1816	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/11
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 18:25:17
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 1 (802.11n)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2412.000	71.73	-7.43	64.30	--	--	peak			
2	2412.000	71.52	-7.43	64.09	--	--	Avg			
3	4824.101	41.01	-0.19	40.82	74.00	-33.18	peak			
4	4824.101	40.00	-0.19	39.81	54.00	-14.19	Avg			


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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Kai #1858

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/12/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 15:47:15

EUT: Wimo

Engineer Signature: Kai

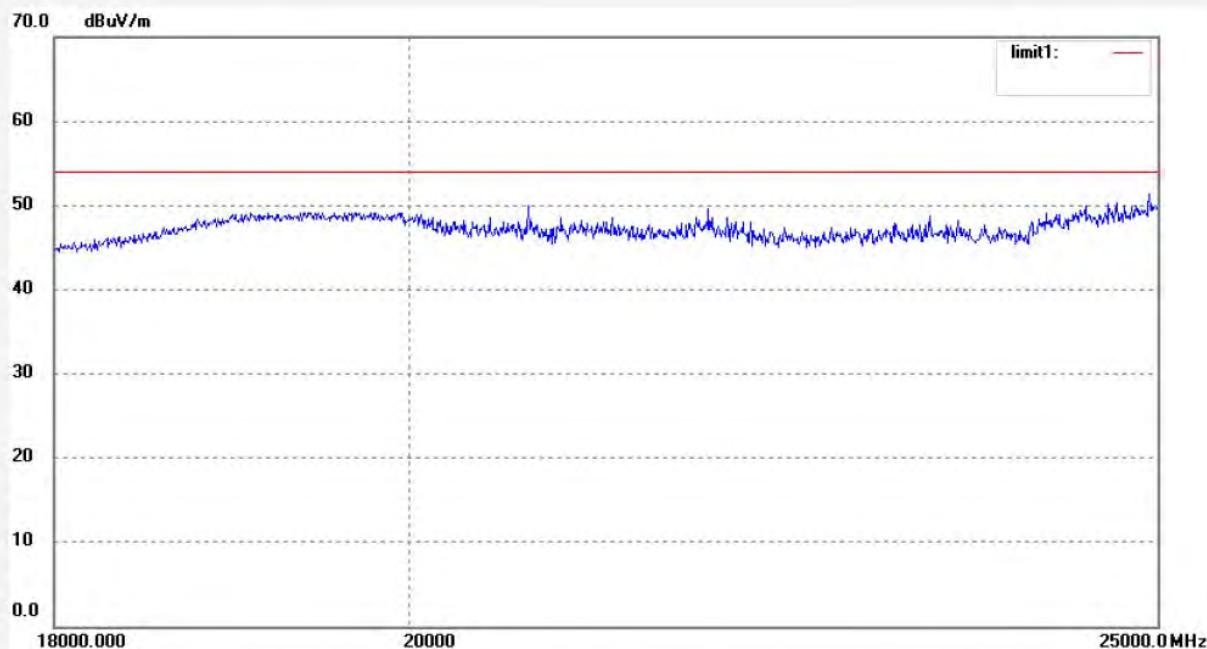
Mode: TX Channel 11 (802.11n)

Distance:

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dB <sub>uV/m</sub> )	Factor (dB)	Result (dB <sub>uV/m</sub> )	Limit (dB <sub>uV/m</sub> )	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Kai #1859	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 12/01/12/									
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 15:49:05									
EUT: Wimo	Engineer Signature: Kai									
Mode: TX Channel 11 (802.11n)	Distance:									
Model: wimo wf										
Manufacturer: Italcom Group										
Note: Report No.:ATE20120041										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

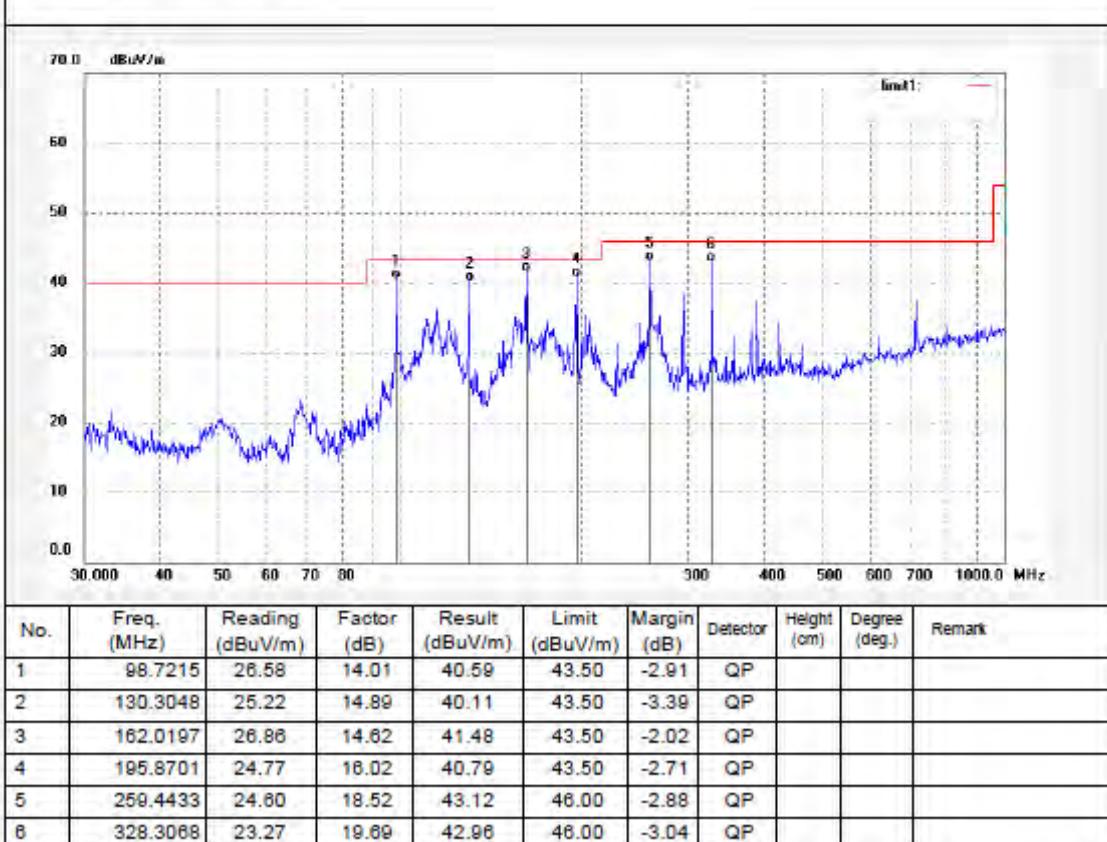


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1730	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/10/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 9/19/02
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 6 (802.11n)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	





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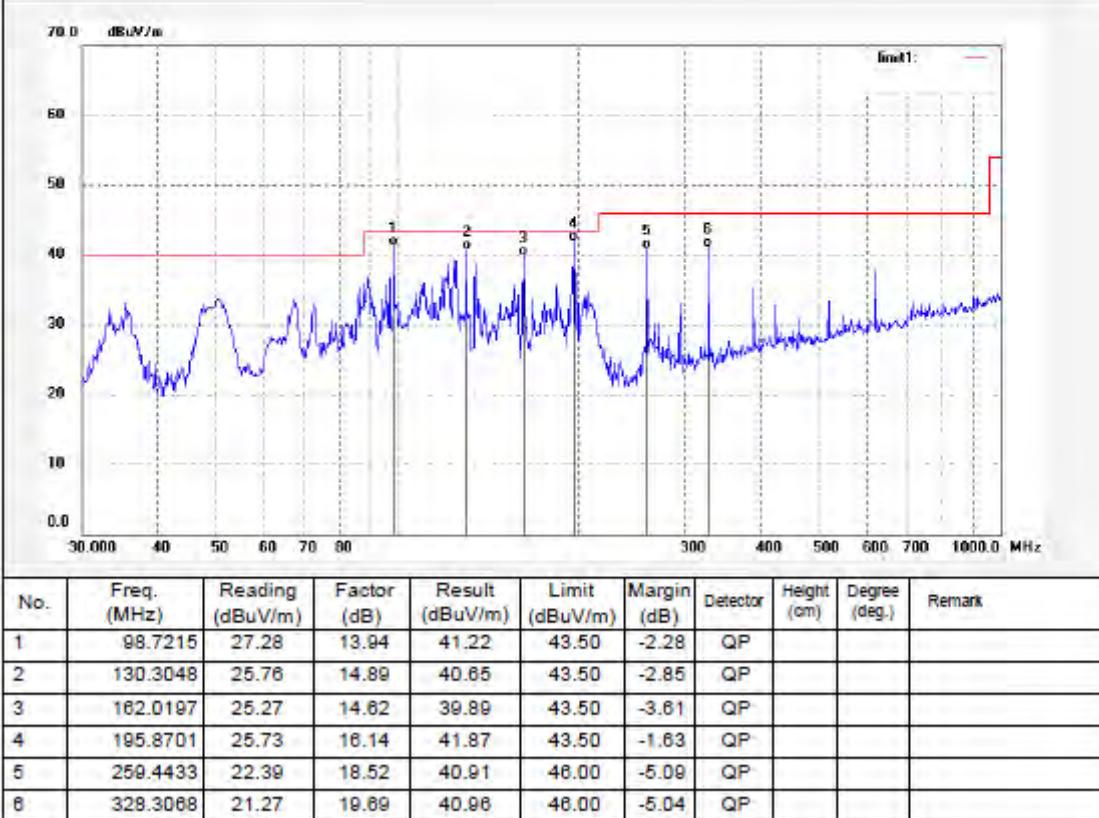
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503398

Job No.: Kai #1729	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/10/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 9/17/17
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 6 (802.11n)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	



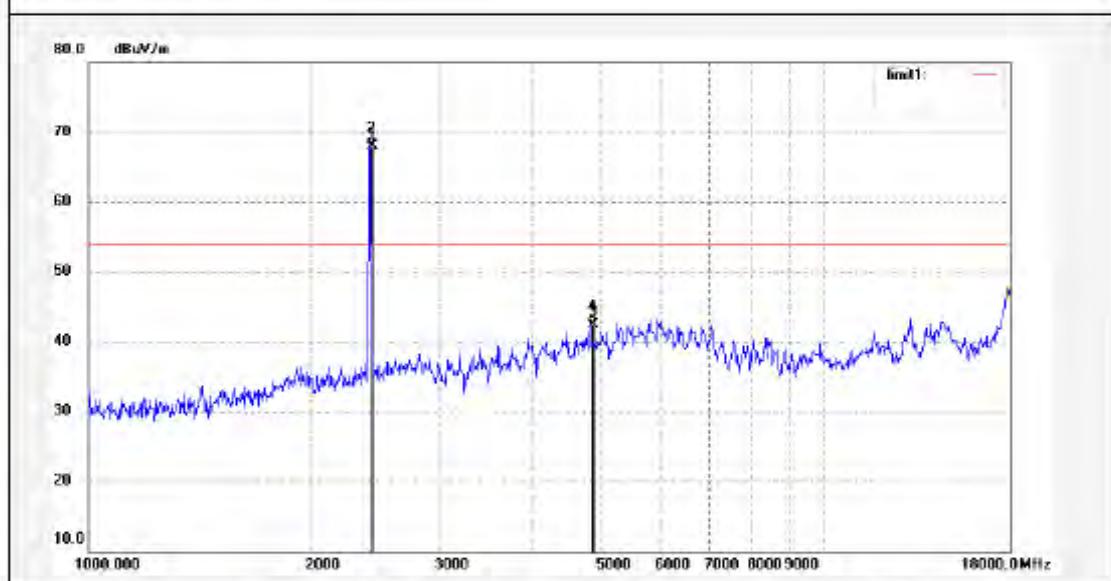


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1818	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/11/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 18:27:31
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 6 (802.11n)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2437.000	78.92	-7.36	71.29	--	--	peak			
2	2437.000	75.45	-7.36	68.09	--	--	Avg			
3	4874.120	44.57	0.08	44.66	74.00	-29.34	peak			
4	4874.120	42.31	0.08	42.40	54.00	-11.60	Avg			

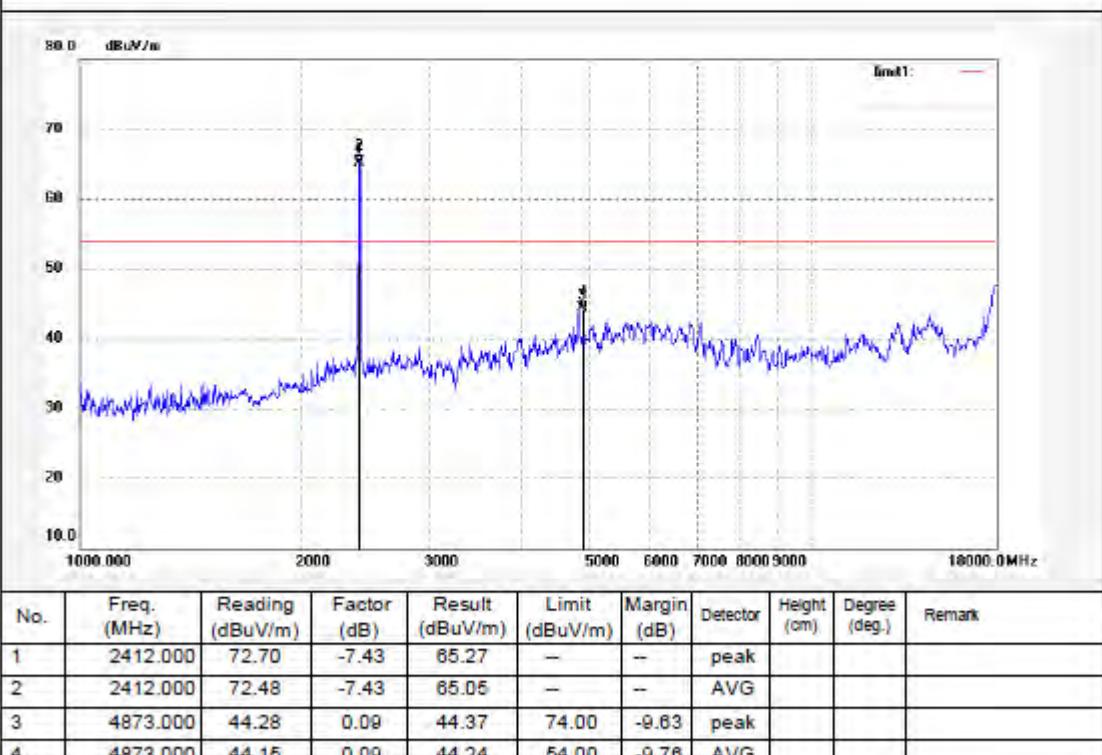


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 908 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1819	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/11/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 18:28:35
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 6 (802.11n)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	




**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1861

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/12/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 15:53:01

EUT: Wimo

Engineer Signature: Kai

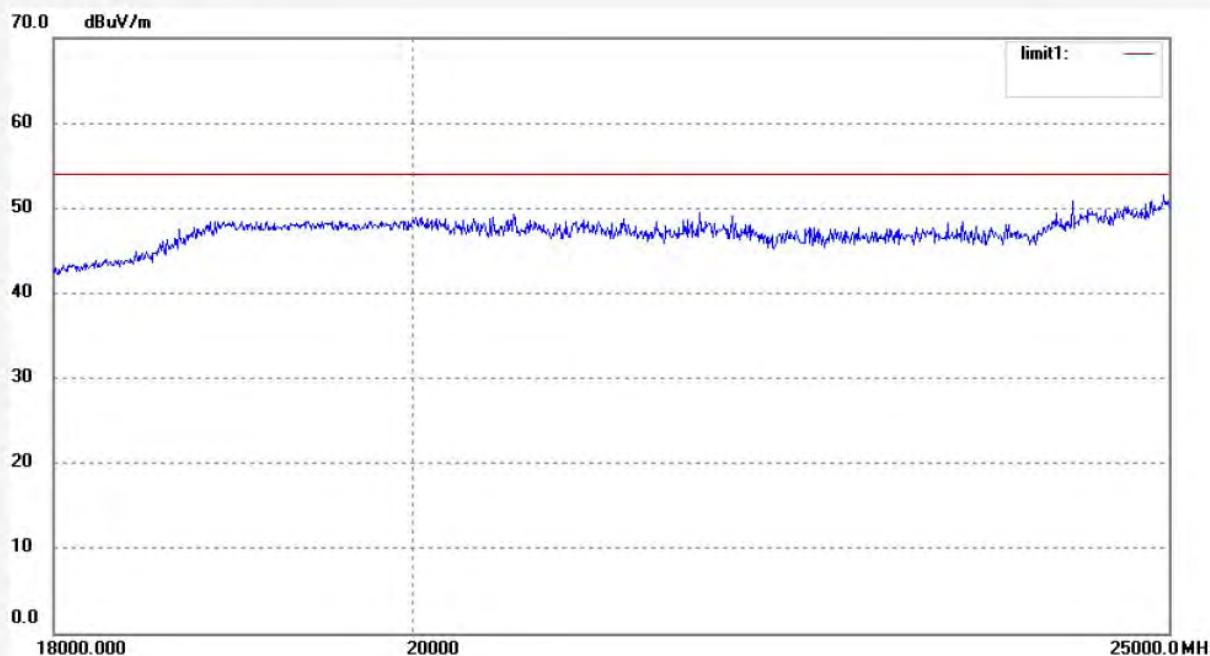
Mode: TX Channel 6 (802.11n)

Distance:

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Kai #1860

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/12/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 15:51:02

EUT: Wimo

Engineer Signature: Kai

Mode: TX Channel 6 (802.11n)

Distance:

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041

70.0 dB<sub>UV</sub>/m

60

50

40

30

20

10

0.0

18000.000

20000

25000.0 MHz

limit1:

No.	Freq. (MHz)	Reading (dB <sub>UV</sub> /m)	Factor (dB)	Result (dB <sub>UV</sub> /m)	Limit (dB <sub>UV</sub> /m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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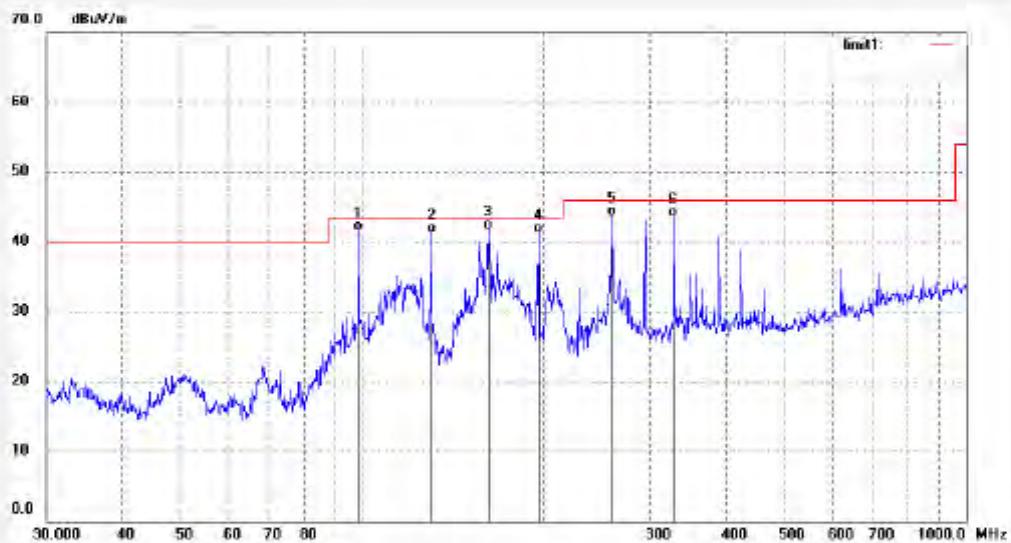


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1731	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/10/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 9/19/31
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 11 (802.11n)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	98.7215	27.47	14.01	41.48	43.50	-2.02	QP			
2	130.3048	26.27	14.89	41.16	43.50	-2.34	QP			
3	162.0197	27.20	14.62	41.82	43.50	-1.68	QP			
4	195.8701	25.17	16.02	41.19	43.50	-2.31	QP			
5	259.4433	25.06	18.52	43.58	46.00	-2.42	QP			
6	328.3068	23.78	19.69	43.47	46.00	-2.53	QP			



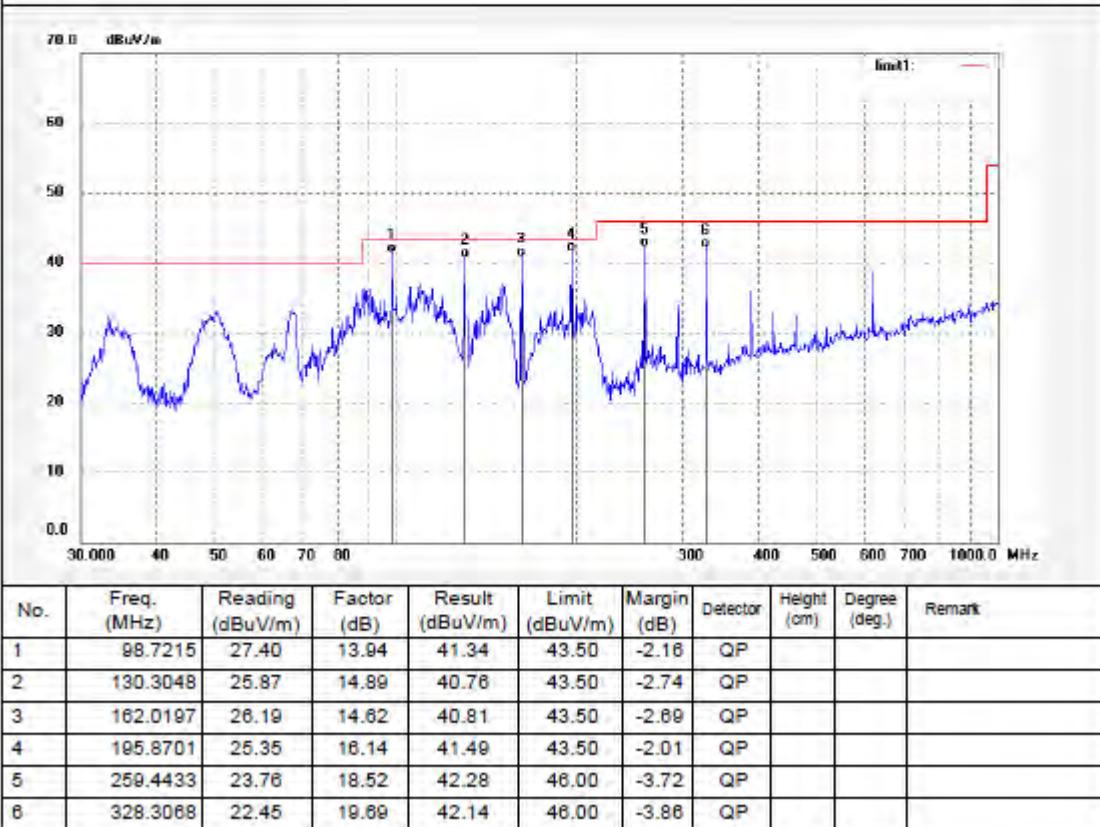
ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 986 chamber

Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.:	Kai #1732	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	12/01/10/
Temp.( C)/Hum.(%)	24 C / 48 %	Time:	9/20/09
EUT:	Wimo	Engineer Signature:	Kai
Mode:	TX Channel 11 (802.11n)	Distance:	3m
Model:	wimo wf		
Manufacturer:	Italcom Group		
Note:	Report No.:ATE20120041		



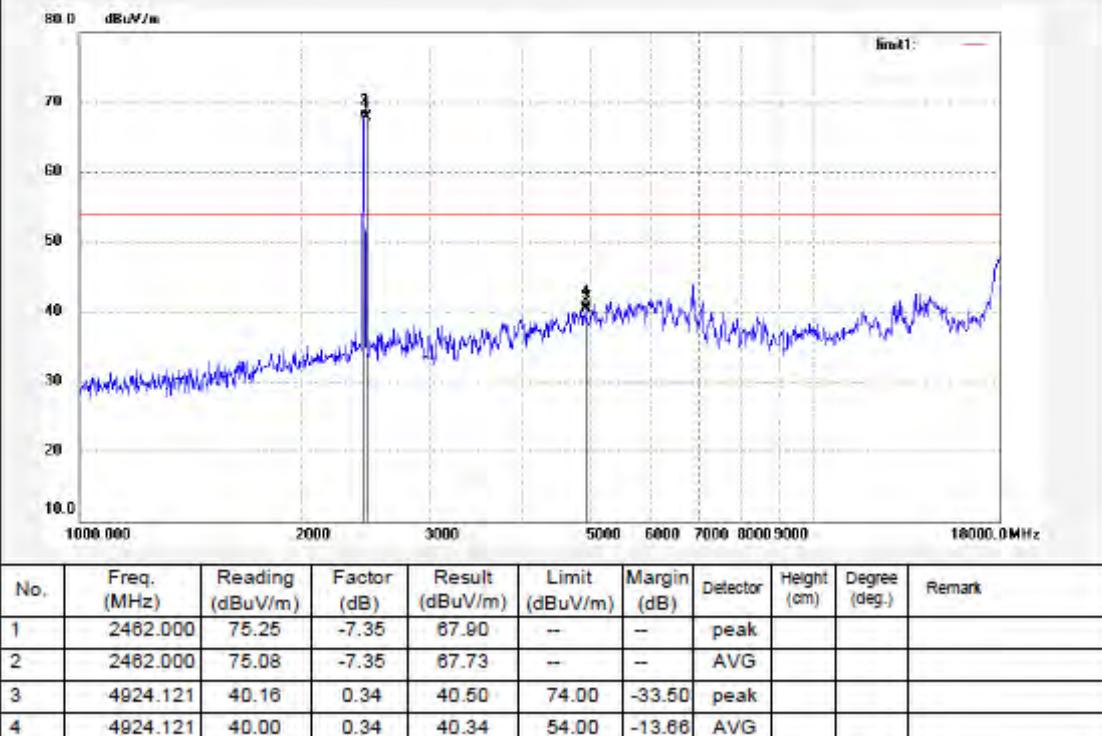


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1821	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/11/
Temp.( C)/Hum.(%) 24 C / 48 %	Time: 18:30:10
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 11 (802.11n)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	



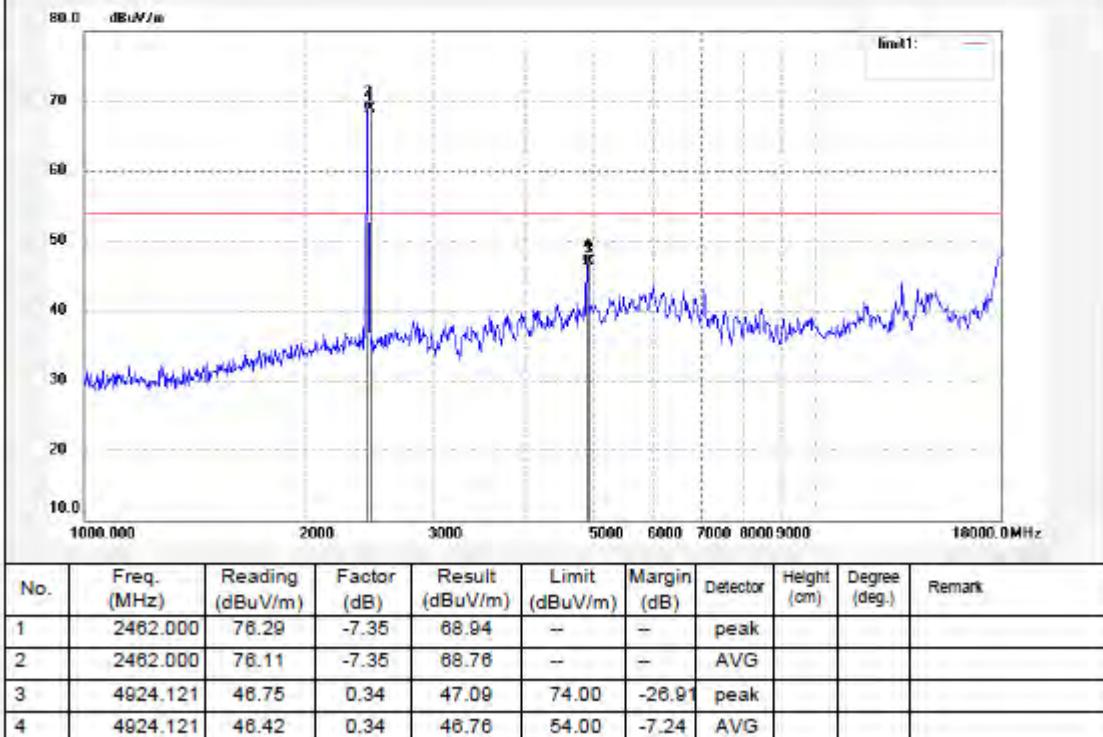


## ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 906 chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: Kai #1820	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/01/11/
Temp. ( C)/Hum.(%) 24 C / 48 %	Time: 18:29:40
EUT: Wimo	Engineer Signature: Kai
Mode: TX Channel 11 (802.11n)	Distance: 3m
Model: wimo wf	
Manufacturer: Italcom Group	
Note: Report No.:ATE20120041	




**ACCURATE TECHNOLOGY CO., LTD.**

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 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Kai #1862

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/12/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 15:55:57

EUT: Wimo

Engineer Signature: Kai

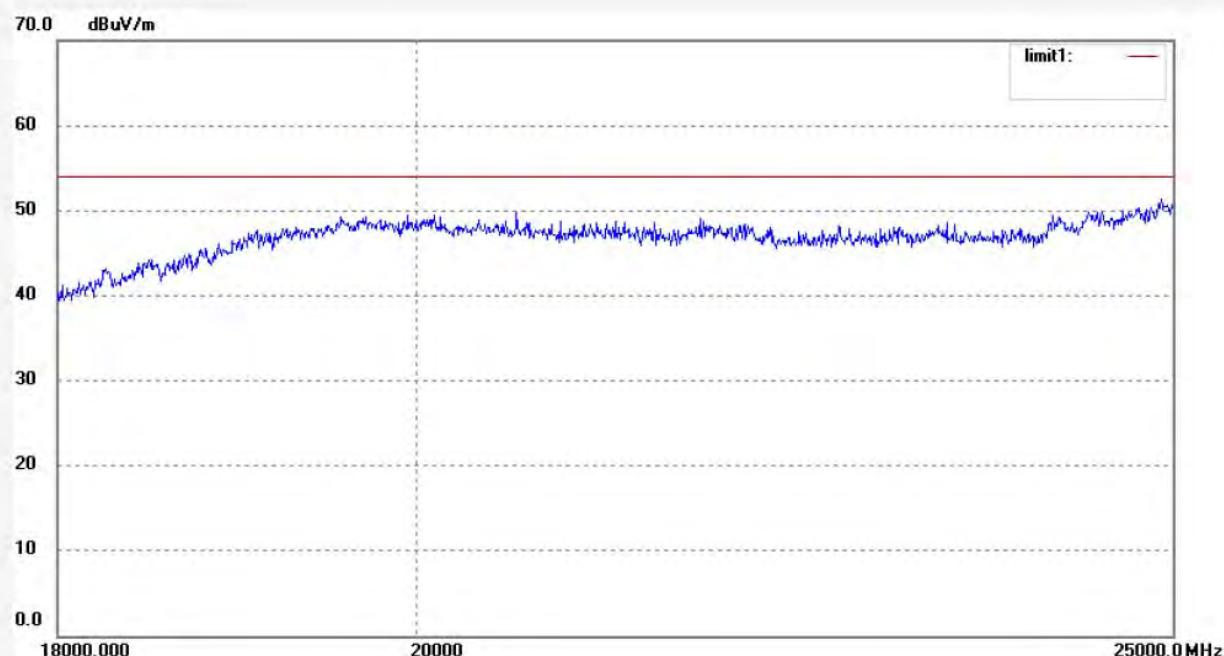
Mode: TX Channel 1 (802.11n)

Distance:

Model: wimo wf

Manufacturer: Italcom Group

Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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**ACCURATE TECHNOLOGY CO., LTD.**

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 966 chamber  
 Tel:+86-0755-26503290  
 Fax:+86-0755-26503396

Job No.: Kai #1863

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 12/01/12/

Temp.( C)/Hum.(%) 24 C / 48 %

Time: 15:57:43

EUT: Wimo

Engineer Signature: Kai

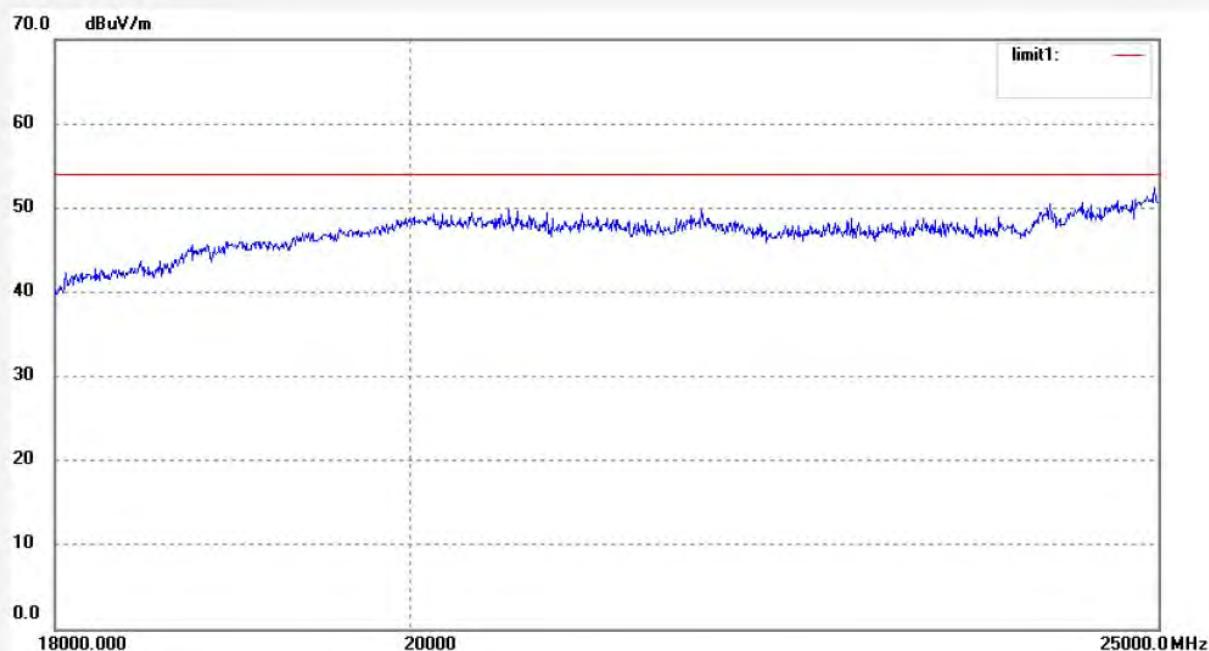
Mode: TX Channel 1 (802.11n)

Distance:

Model: wimo wf

Manufacturer: Italcom Group

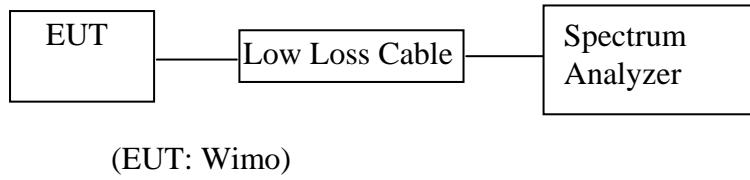
Note: Report No.:ATE20120041



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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## 10.CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

### 10.1.Block Diagram of Test Setup



### 10.2.The Requirement For Section 15.247(d)

Section 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 Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

### 10.3.EUT Configuration on Measurement

The following equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 10.3.1.Wimo (EUT)

Model Number	:	wimo wf
Serial Number	:	N/A
Manufacturer	:	ITALCOM GROUP

## 10.4.Operating Condition of EUT

10.4.1.Setup the EUT and simulator as shown as Section 10.1.

10.4.2.Turn on the power of all equipment.

10.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462MHz. We select 2412MHz, 2437MHz, 2462MHz TX frequency to transmit.

## 10.5.Test Procedure

10.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

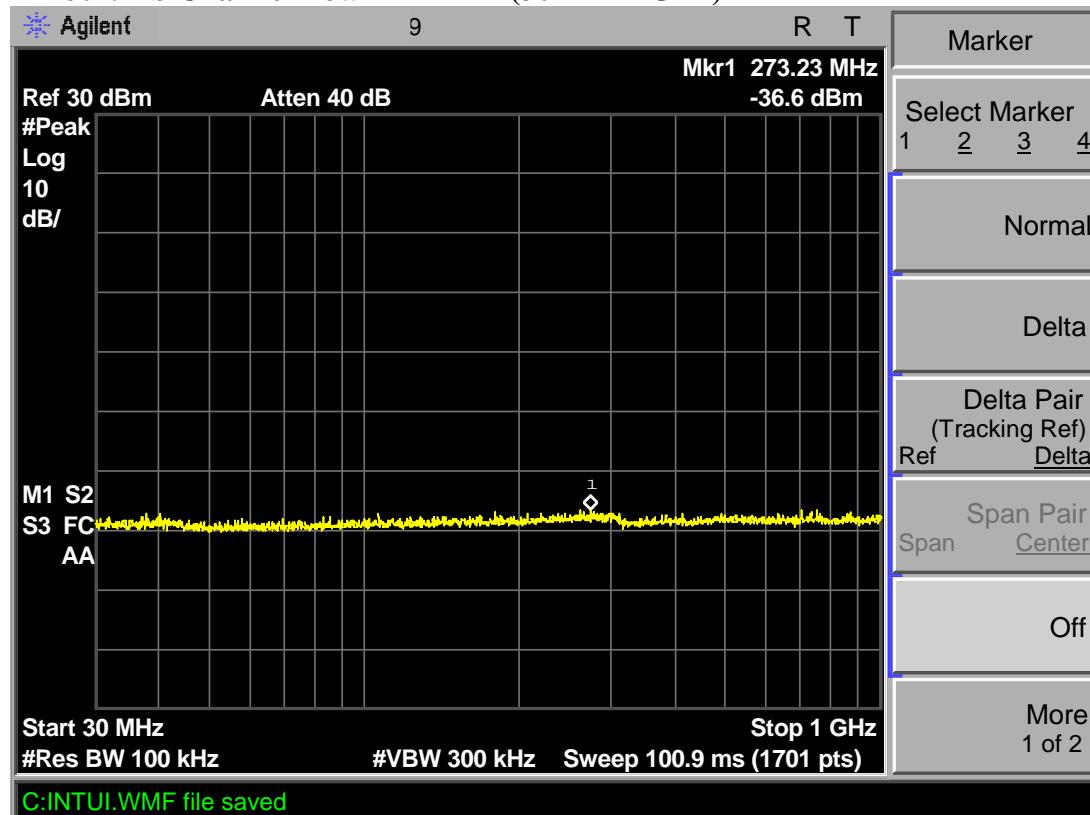
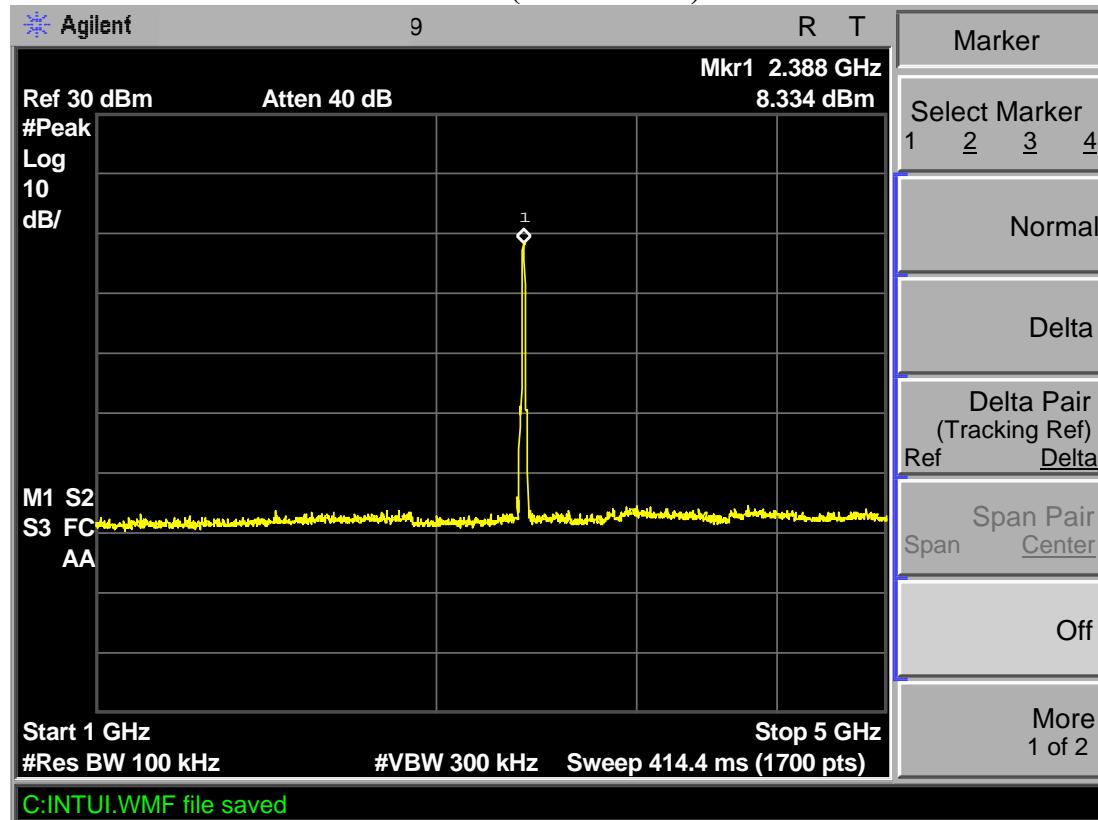
10.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

10.5.3.The Conducted Spurious Emission was measured and recorded.

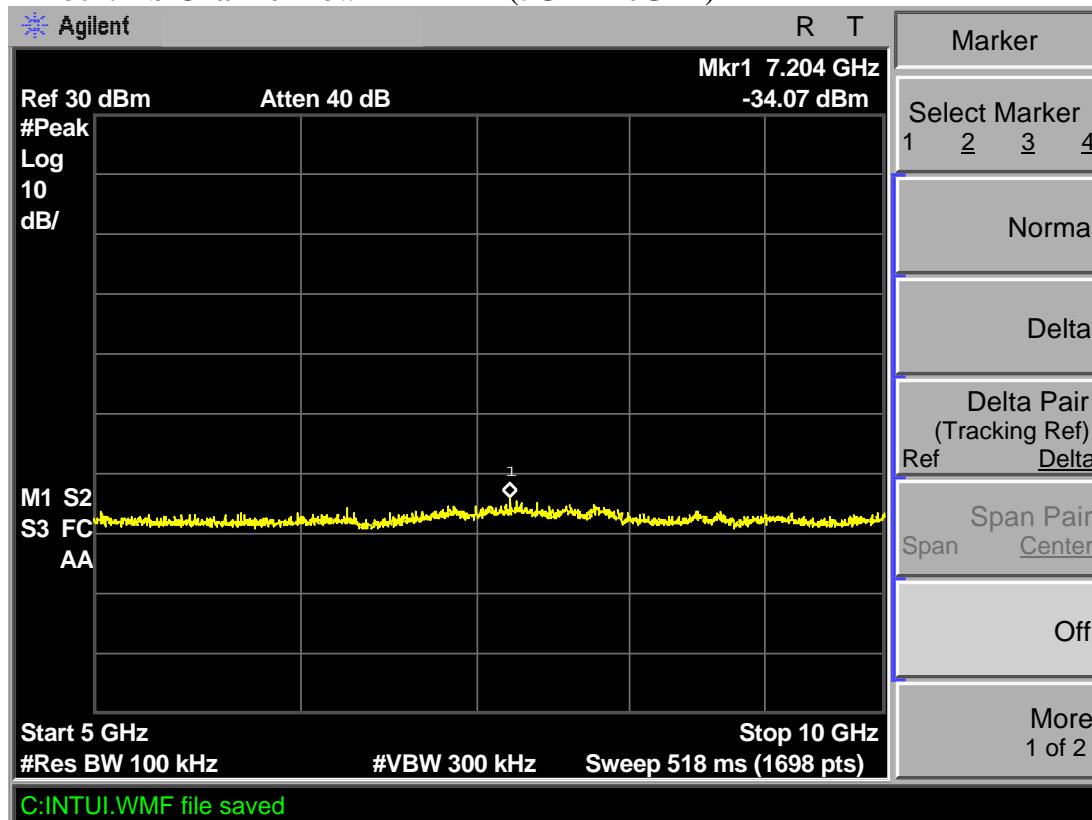
## 10.6.Test Result

**Pass.**

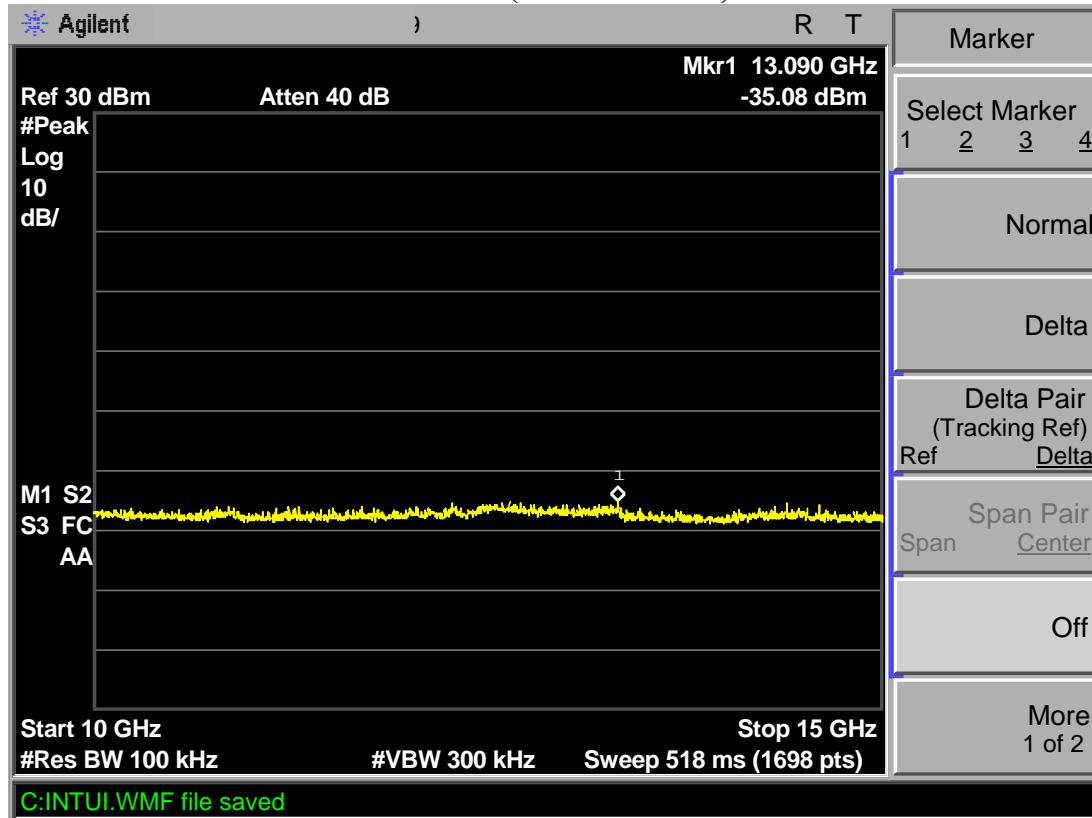
The spectrum analyzer plots are attached as below.

**TX 802.11b Channel Low 2412MHz (30MHz-1GHz)****TX 802.11b Channel Low 2412MHz (1GHz-5GHz)**

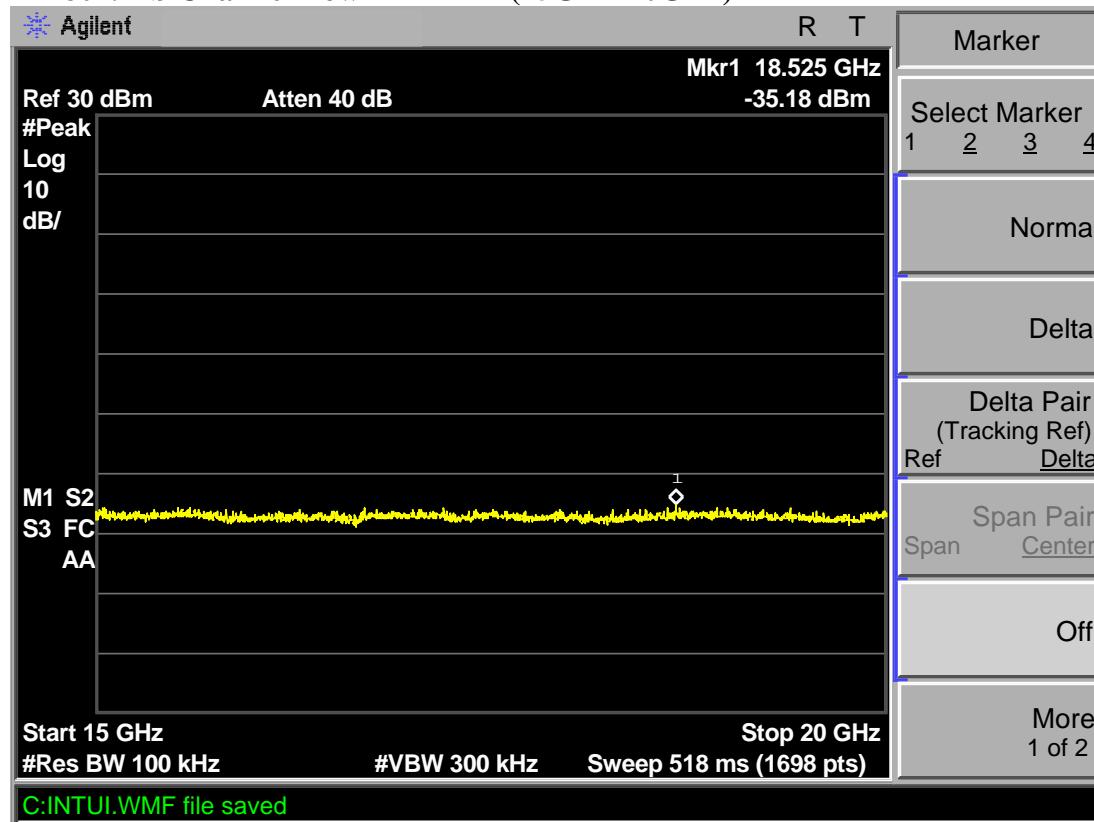
## TX 802.11b Channel Low 2412MHz (5GHz-10GHz)



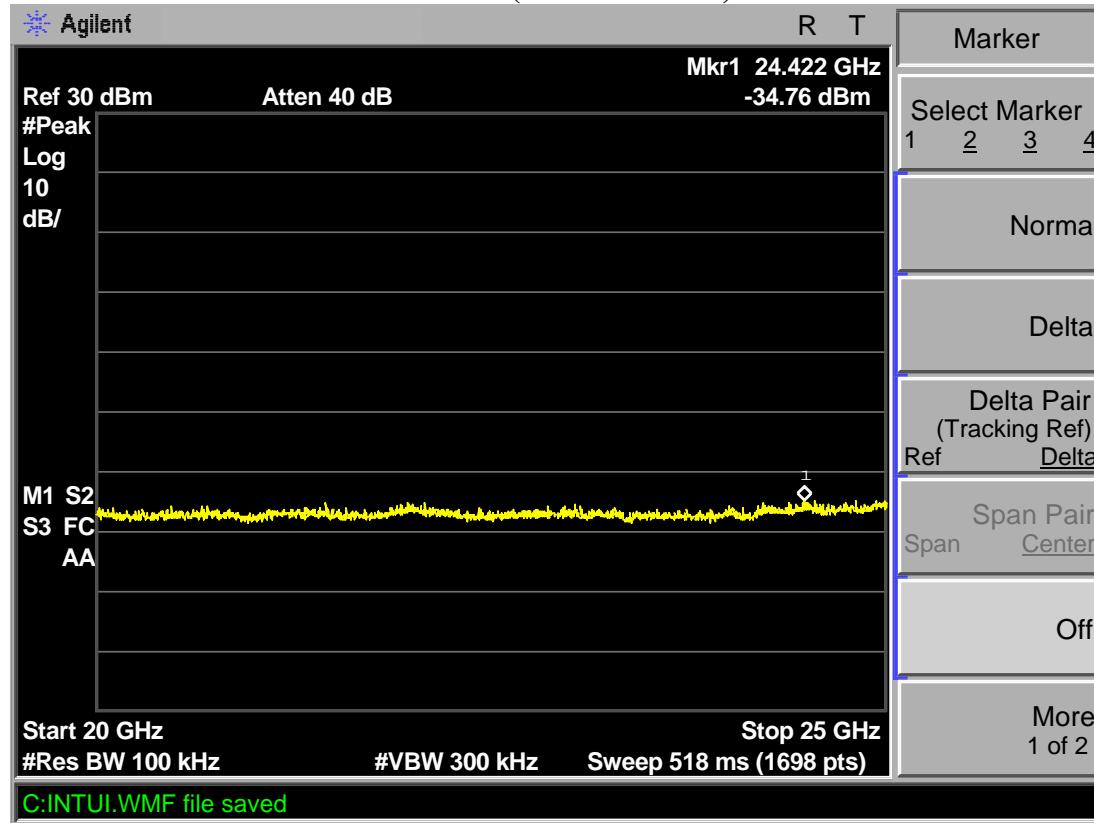
## TX 802.11b Channel Low 2412MHz (10GHz-15GHz)



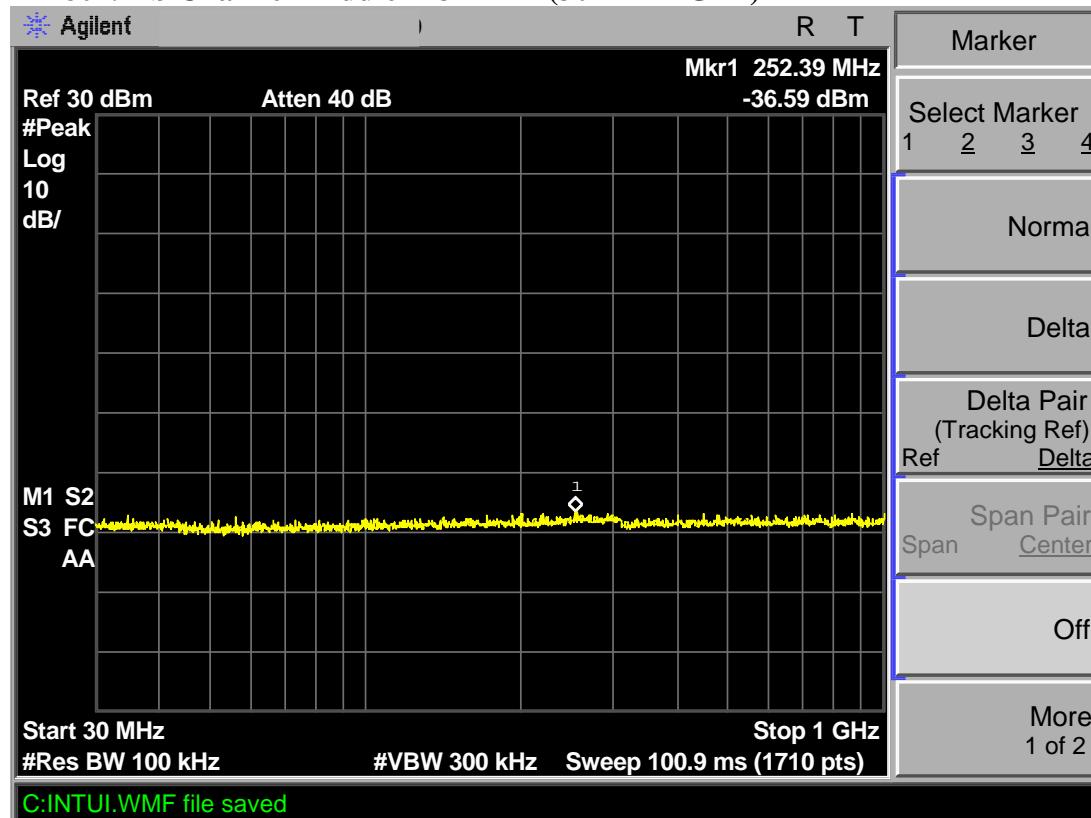
## TX 802.11b Channel Low 2412MHz (15GHz-20GHz)



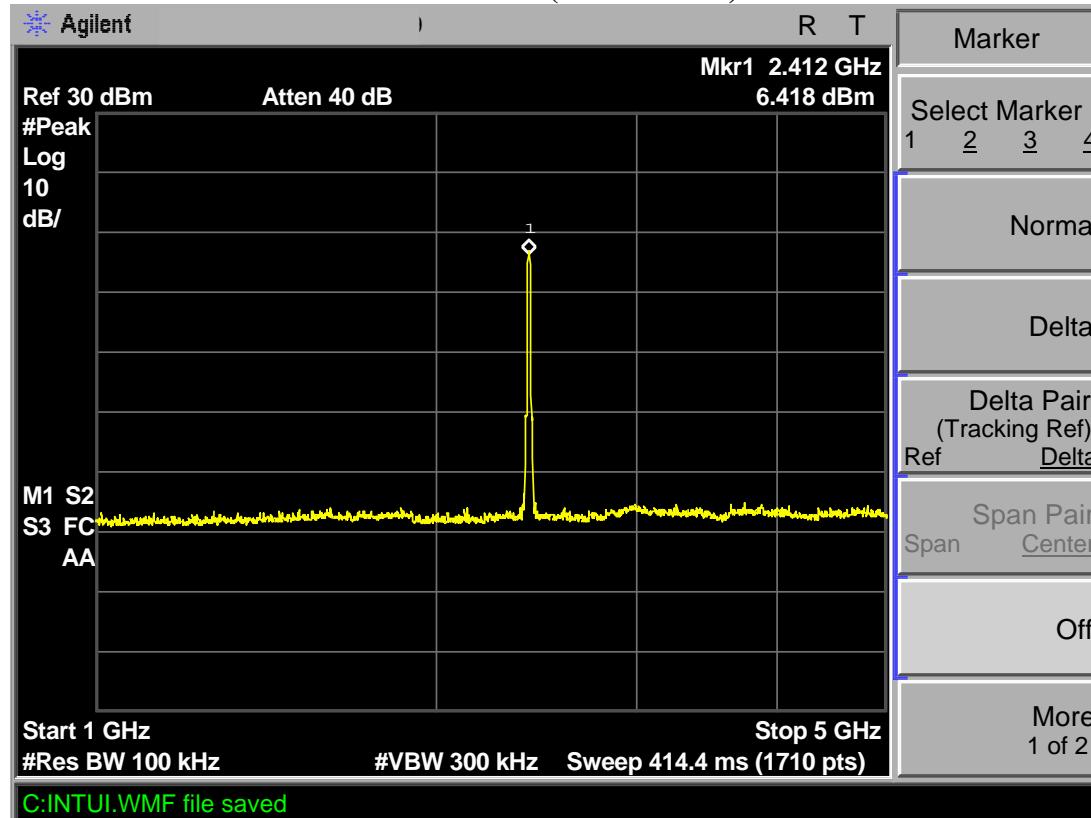
## TX 802.11b Channel Low 2412MHz (20GHz-25GHz)



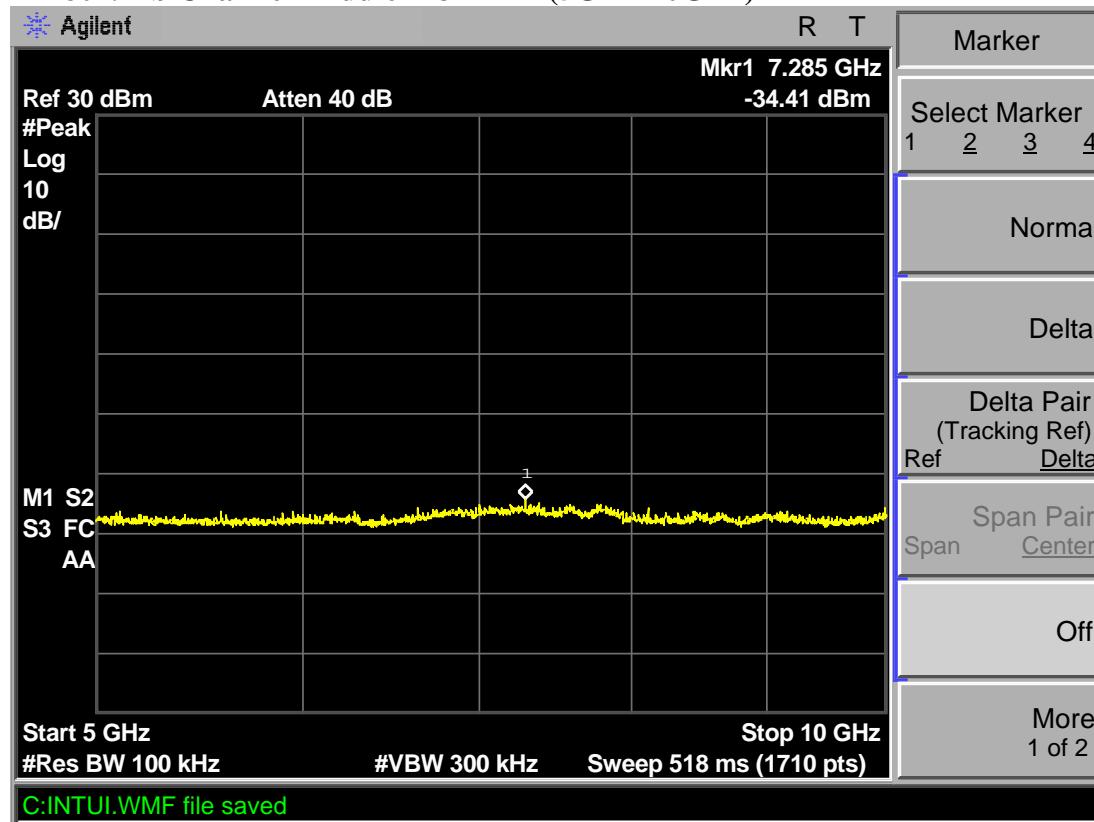
## TX 802.11b Channel Middle 2437MHz (30MHz-1GHz)



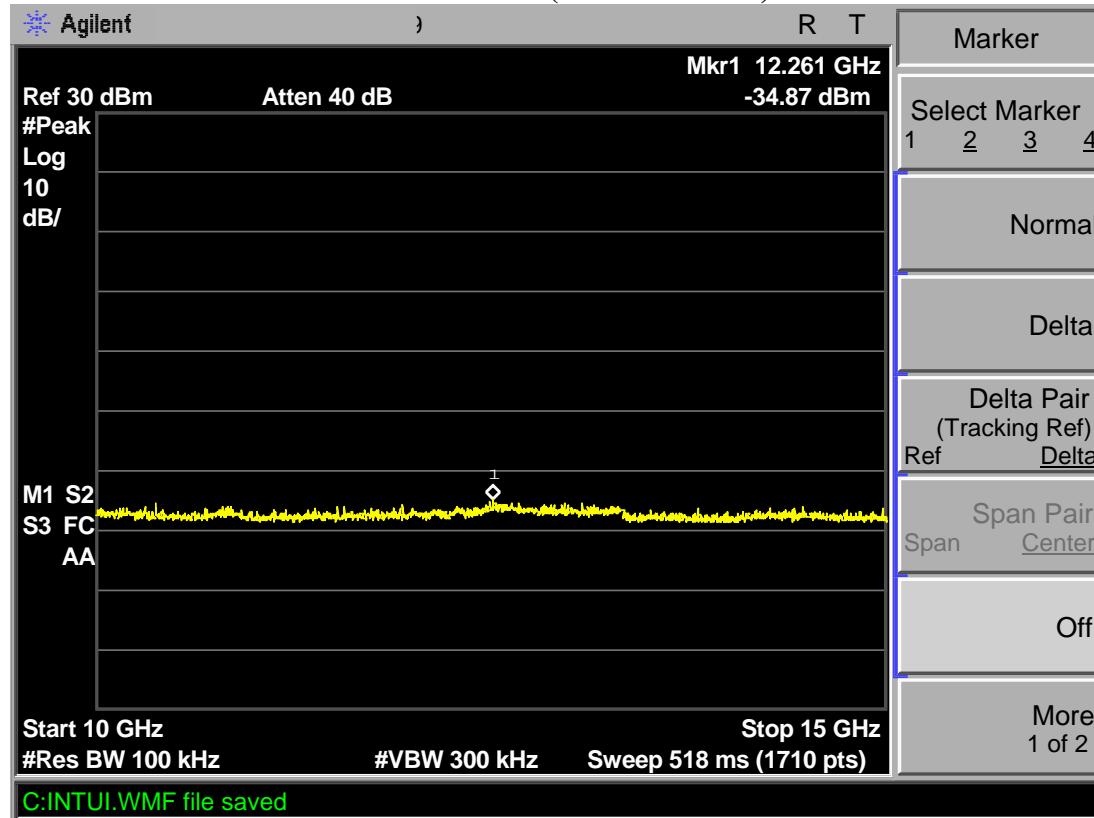
## TX 802.11b Channel Middle 2437MHz (1GHz-5GHz)



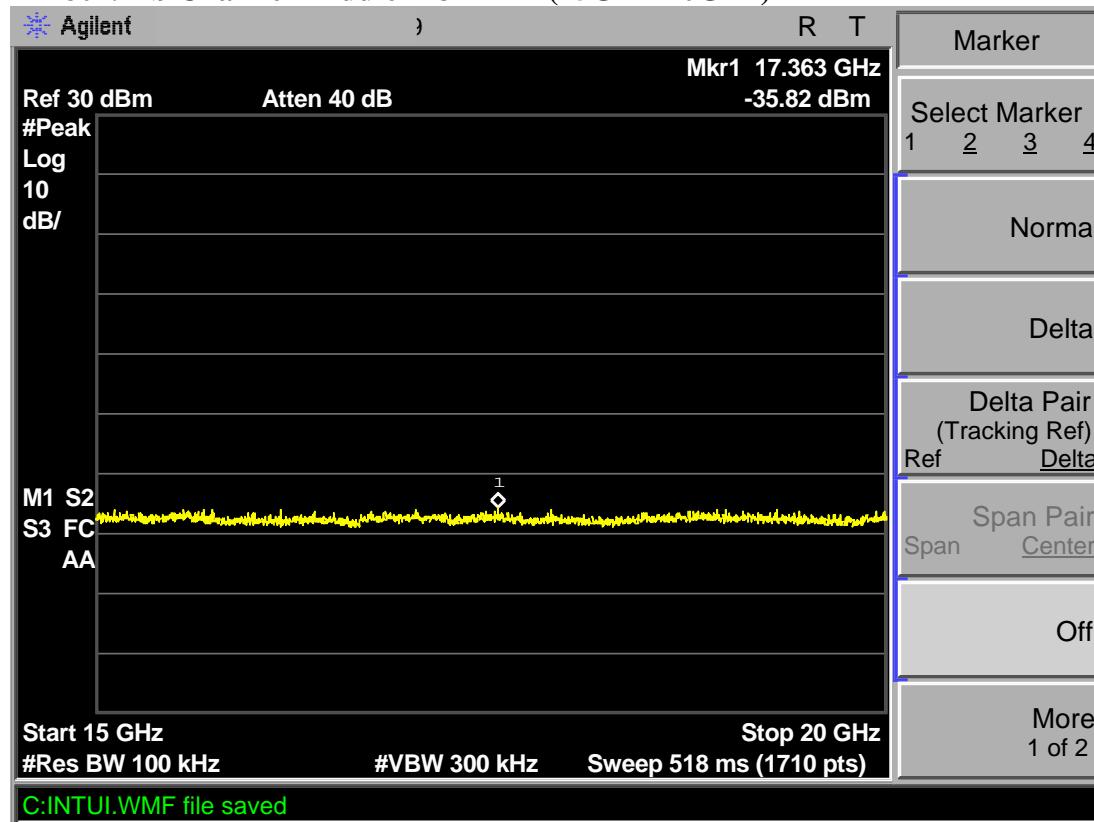
## TX 802.11b Channel Middle 2437MHz (5GHz-10GHz)



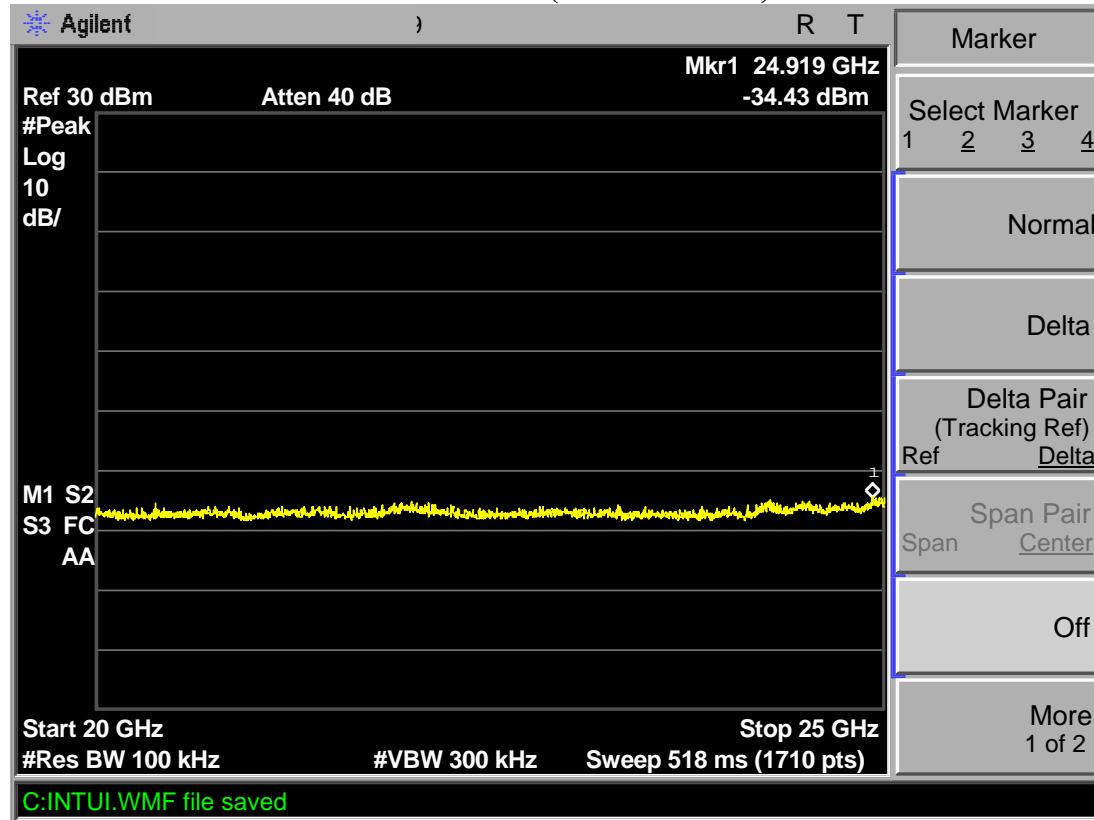
## TX 802.11b Channel Middle 2437MHz (10GHz-15GHz)



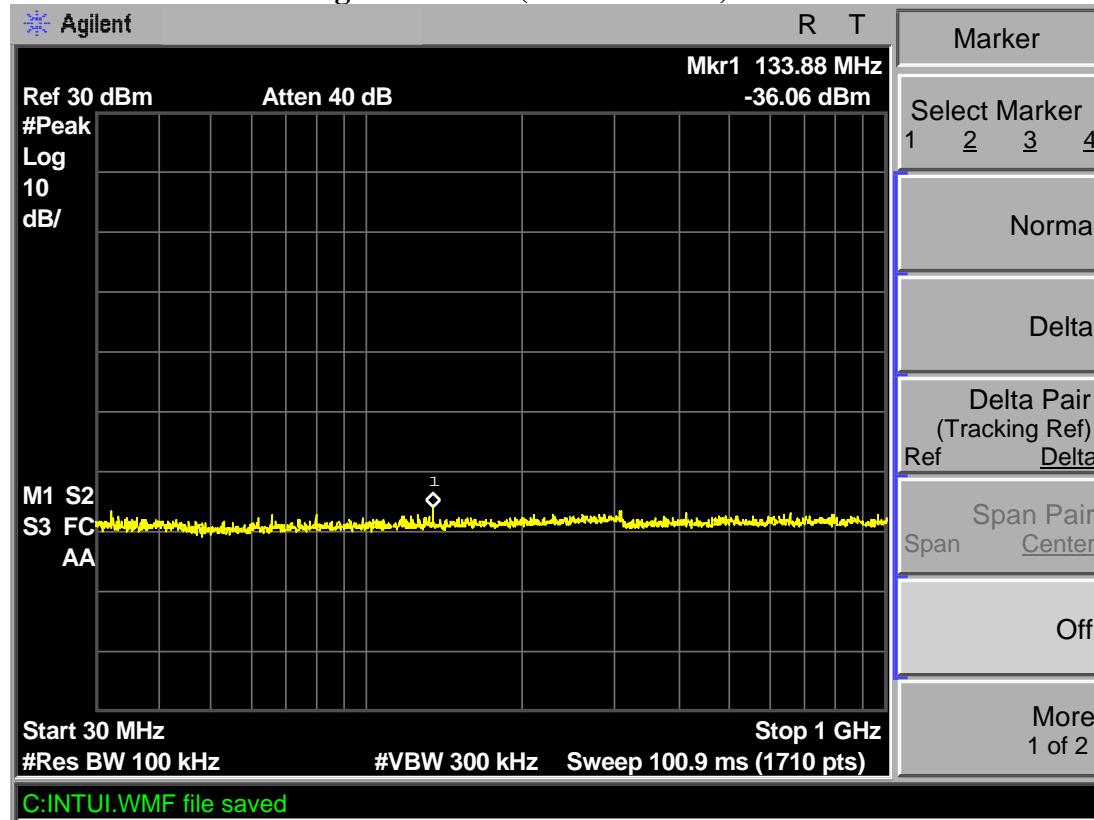
## TX 802.11b Channel Middle 2437MHz (15GHz-20GHz)



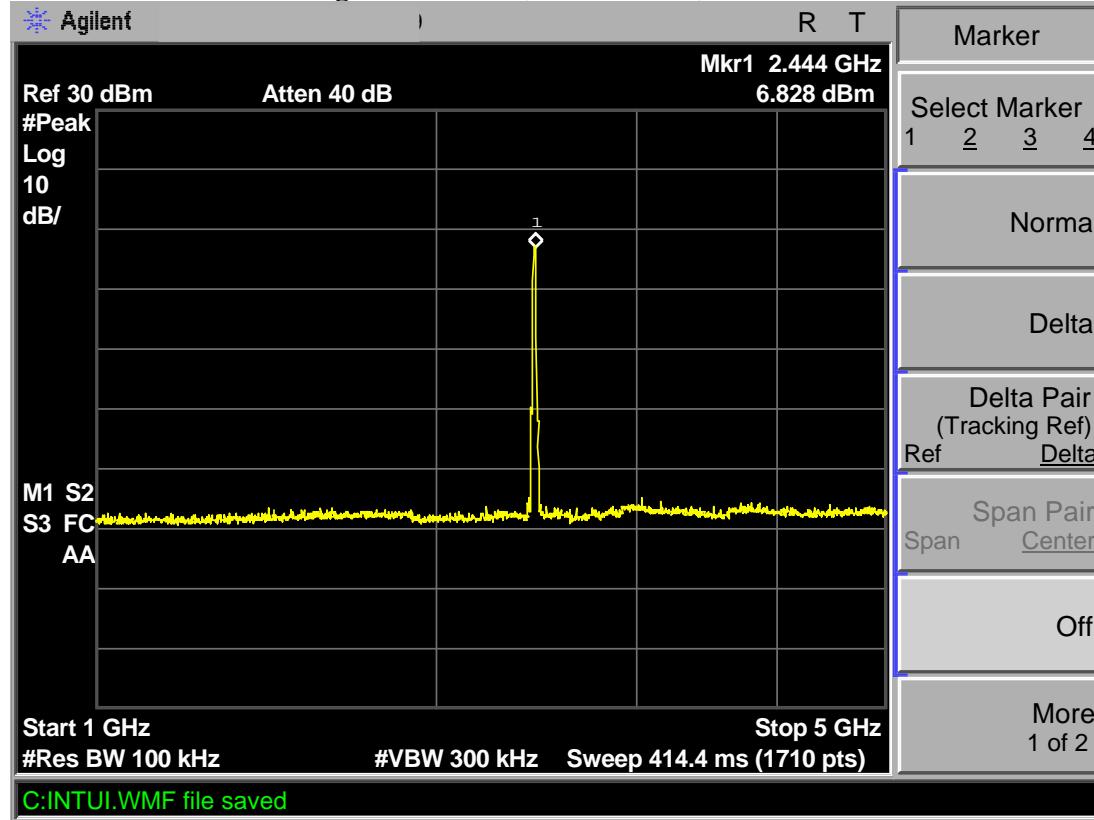
## TX 802.11b Channel Middle 2437MHz (20GHz-25GHz)

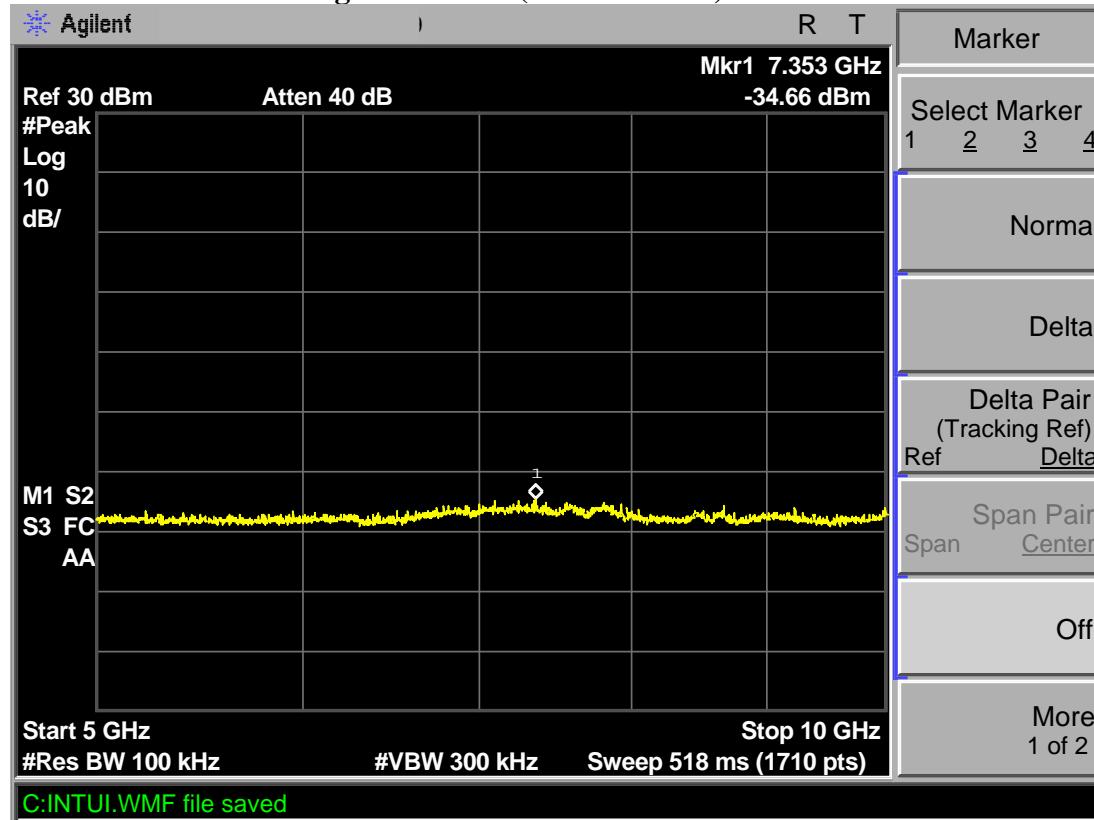
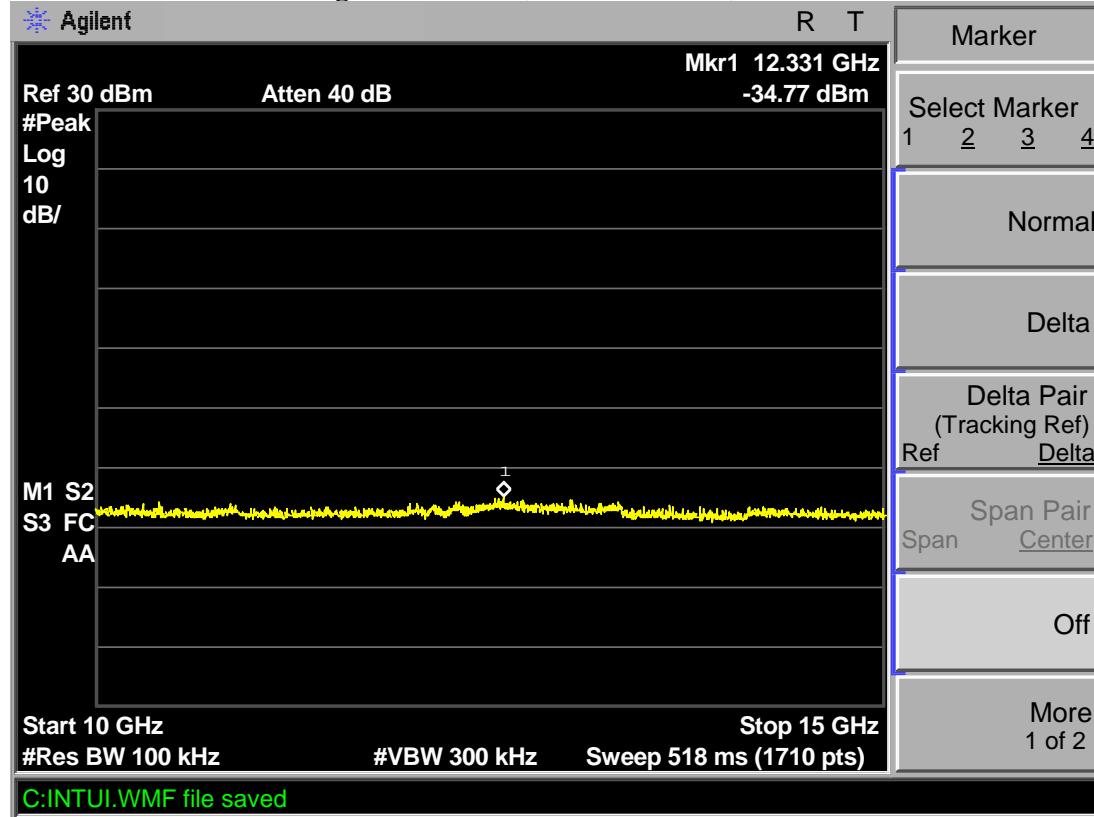


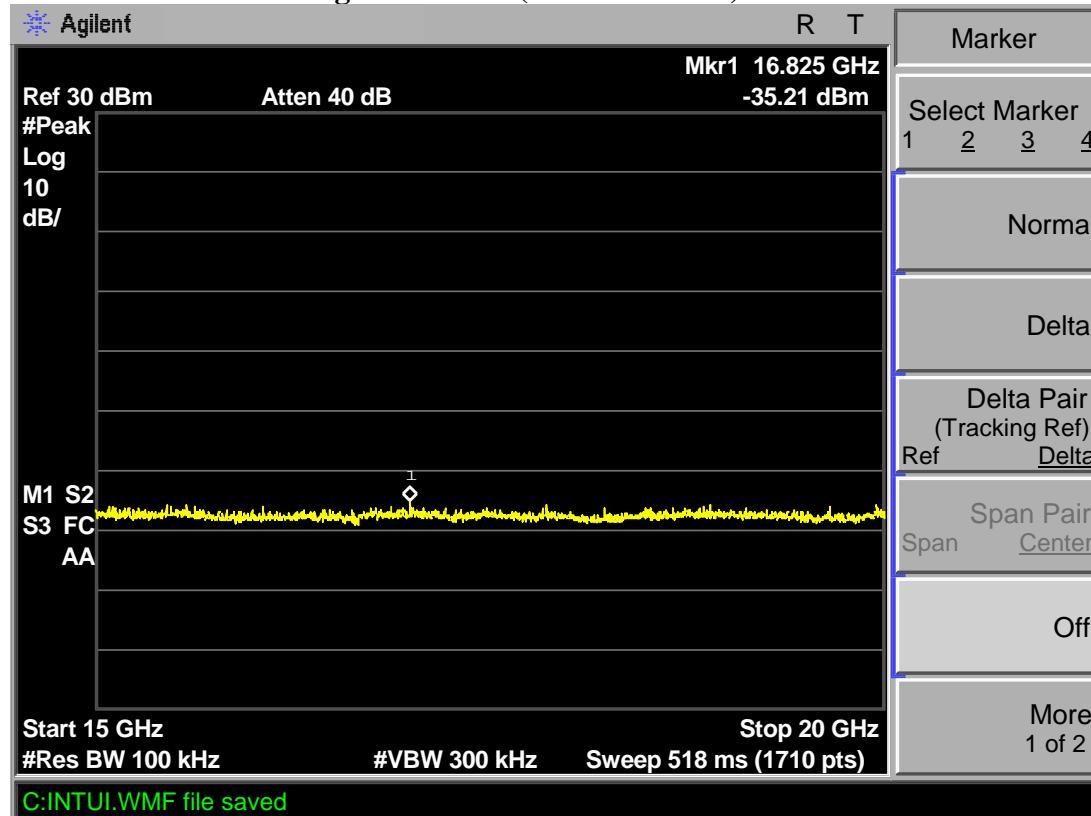
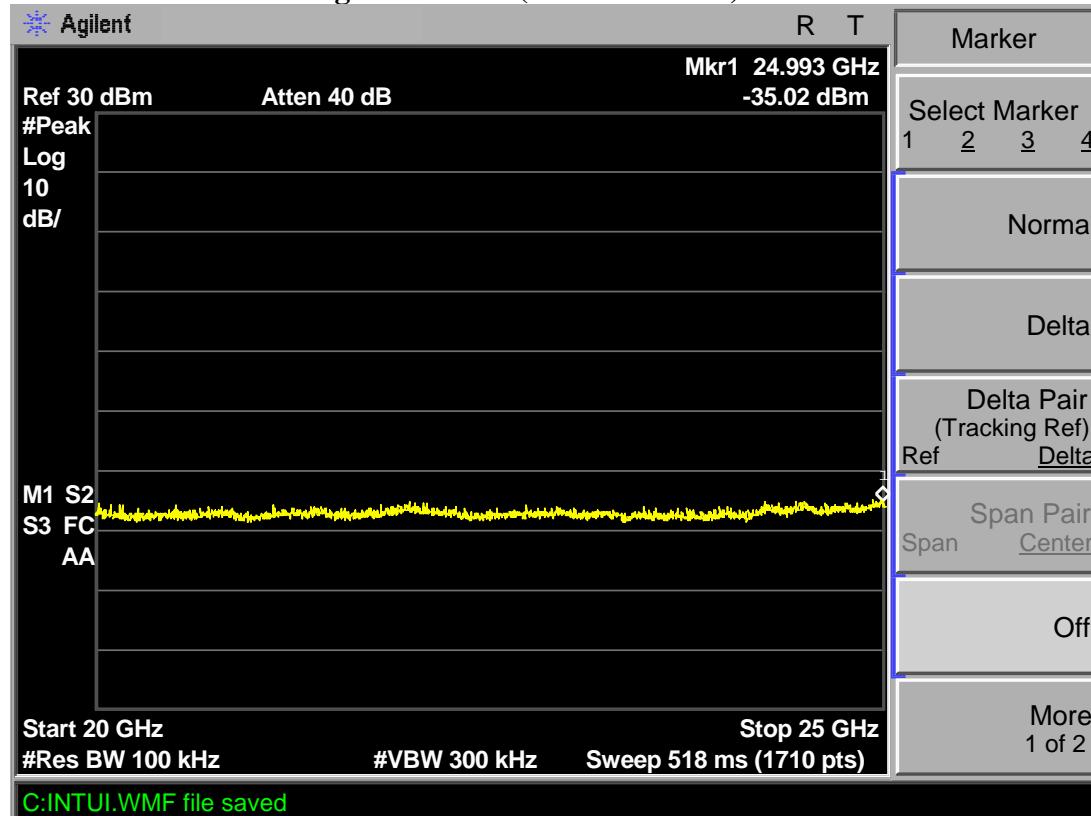
## TX 802.11b Channel High 2462MHz (30MHz-1GHz)

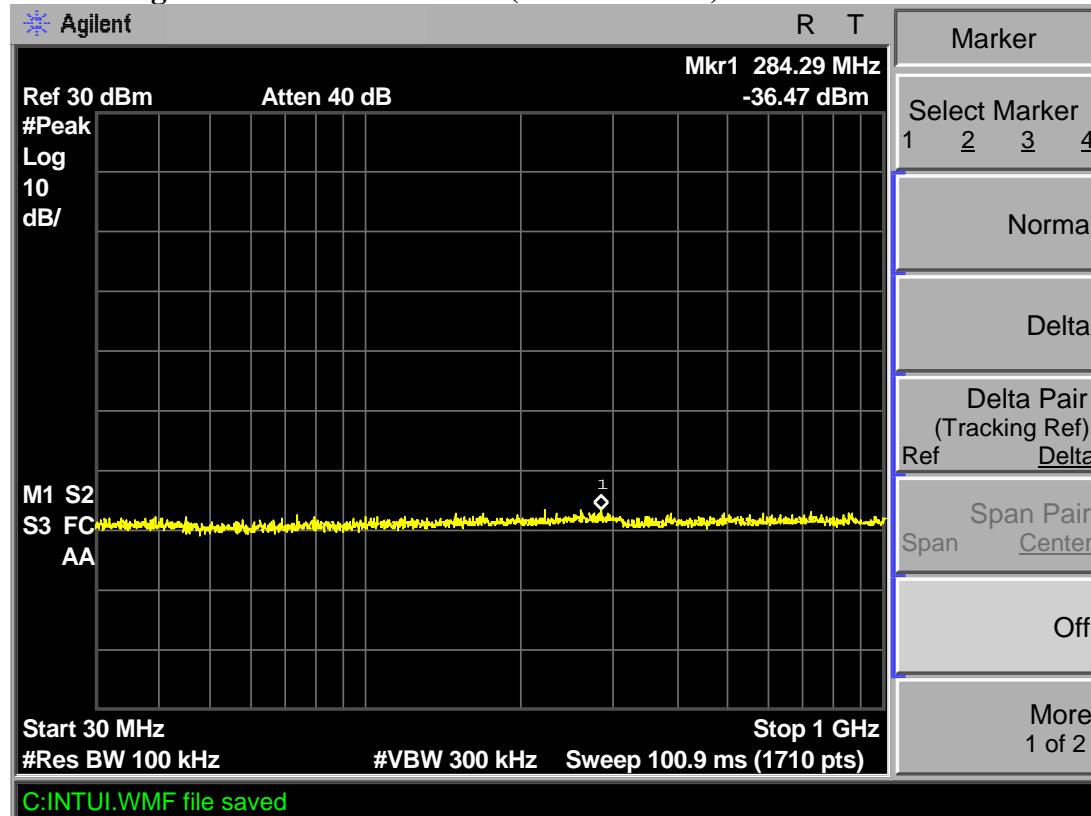
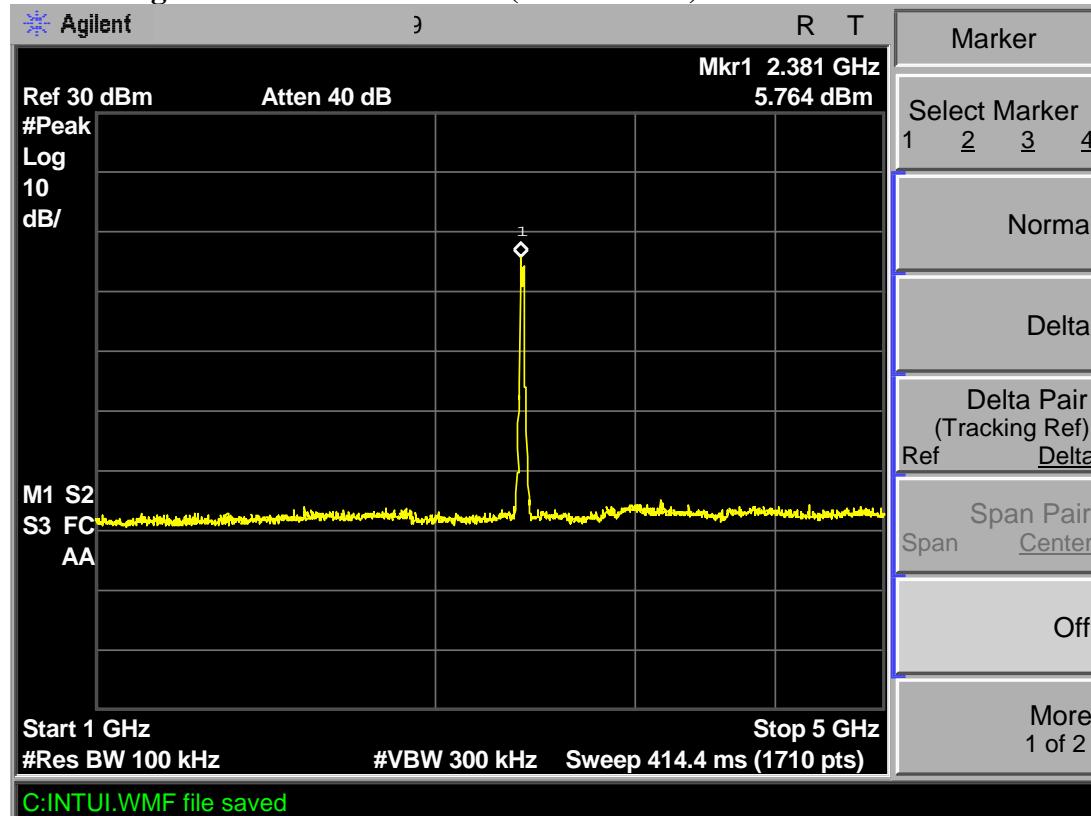


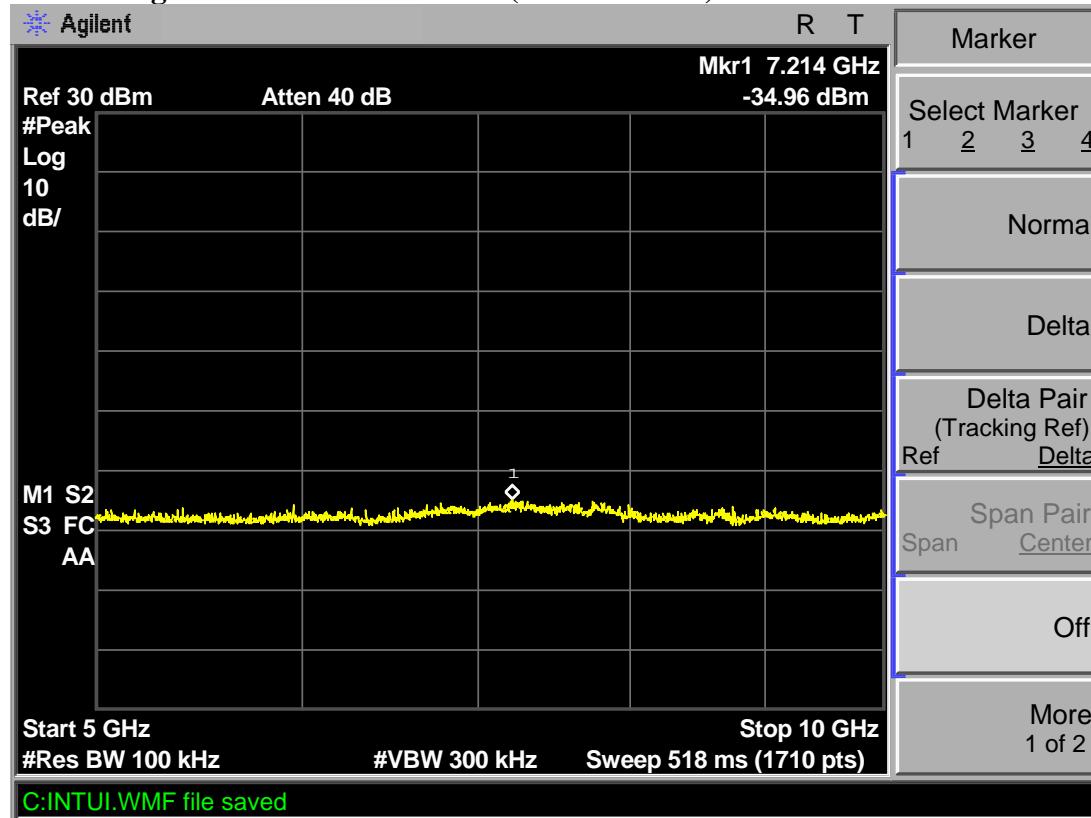
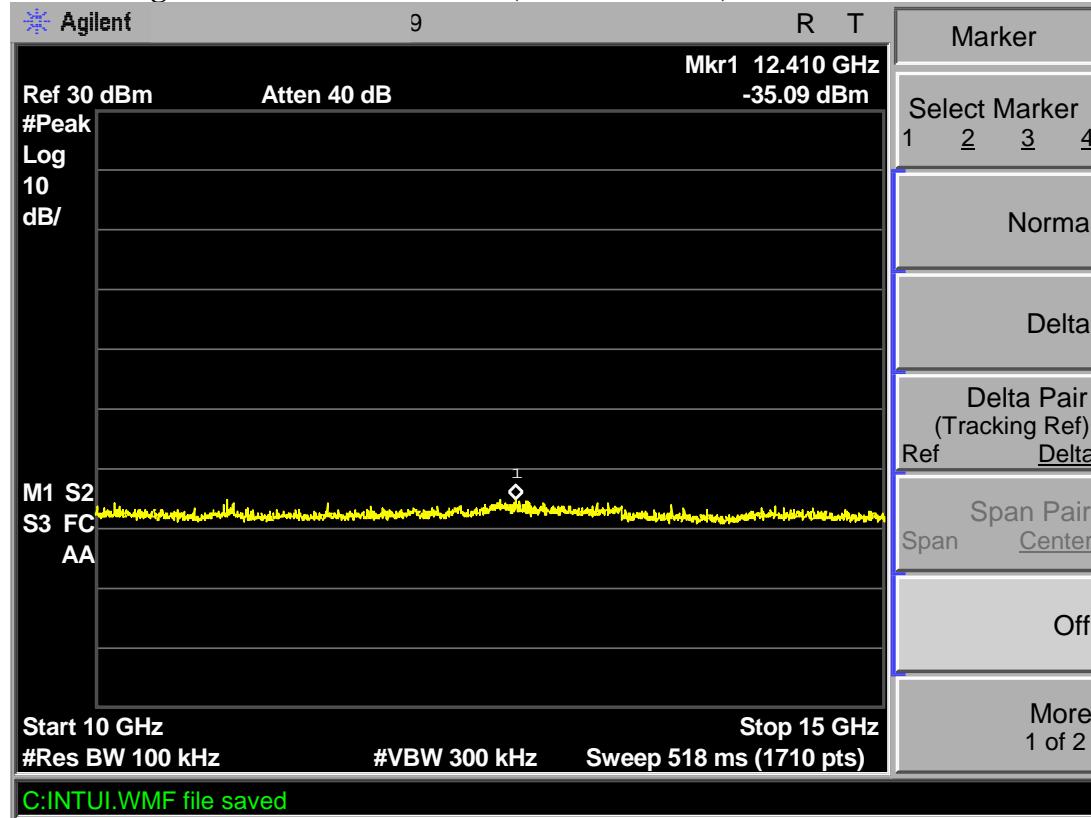
## TX 802.11b Channel High 2462MHz (1GHz-5GHz)



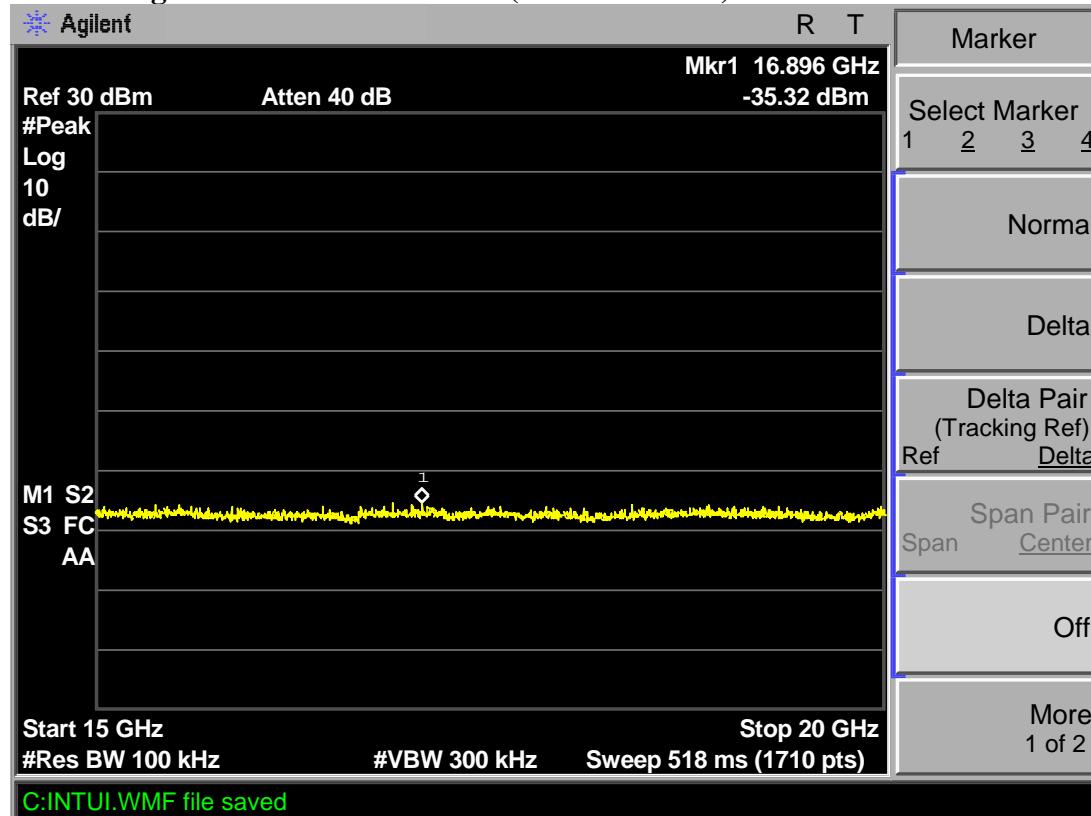
**TX 802.11b Channel High 2462MHz (5GHz-10GHz)****TX 802.11b Channel High 2462MHz (10GHz-15GHz)**

**TX 802.11b Channel High 2462MHz (15GHz-20GHz)****TX 802.11b Channel High 2462MHz (20GHz-25GHz)**

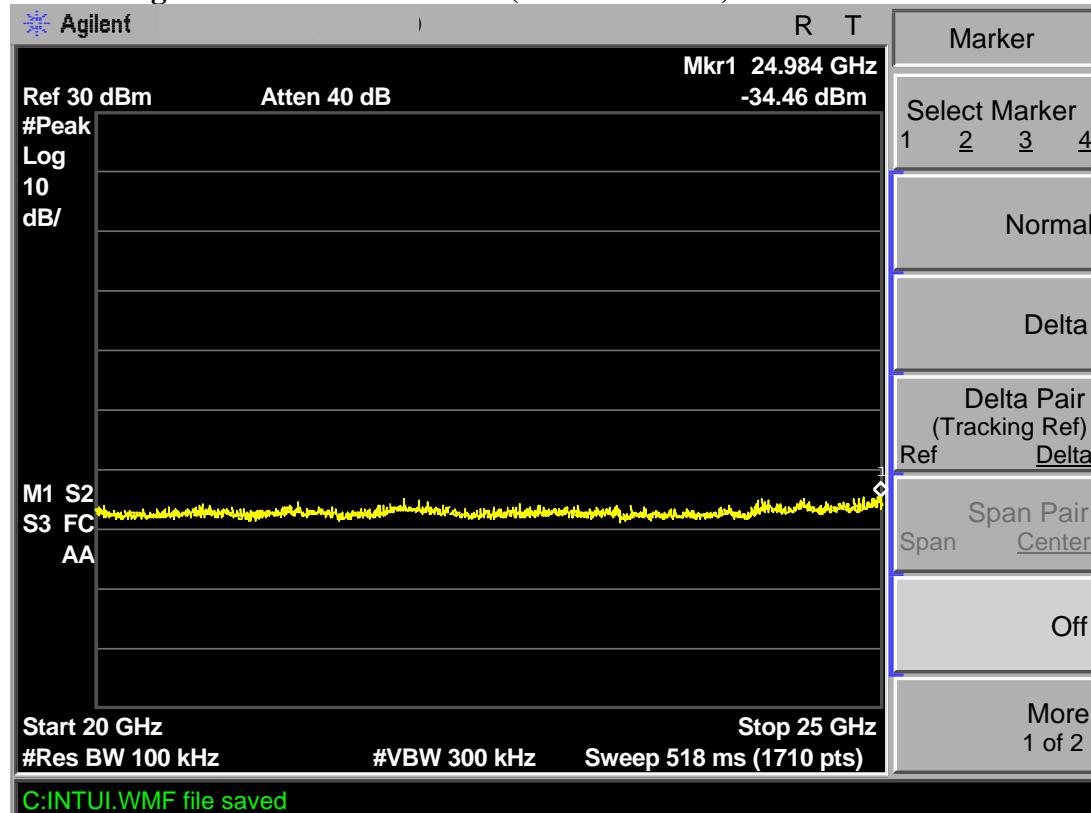
**TX 802.11g Channel Low 2412MHz (30MHz-1GHz)****TX 802.11g Channel Low 2412MHz (1GHz-5GHz)**

**TX 802.11g Channel Low 2412MHz (5GHz-10GHz)****TX 802.11g Channel Low 2412MHz (10GHz-15GHz)**

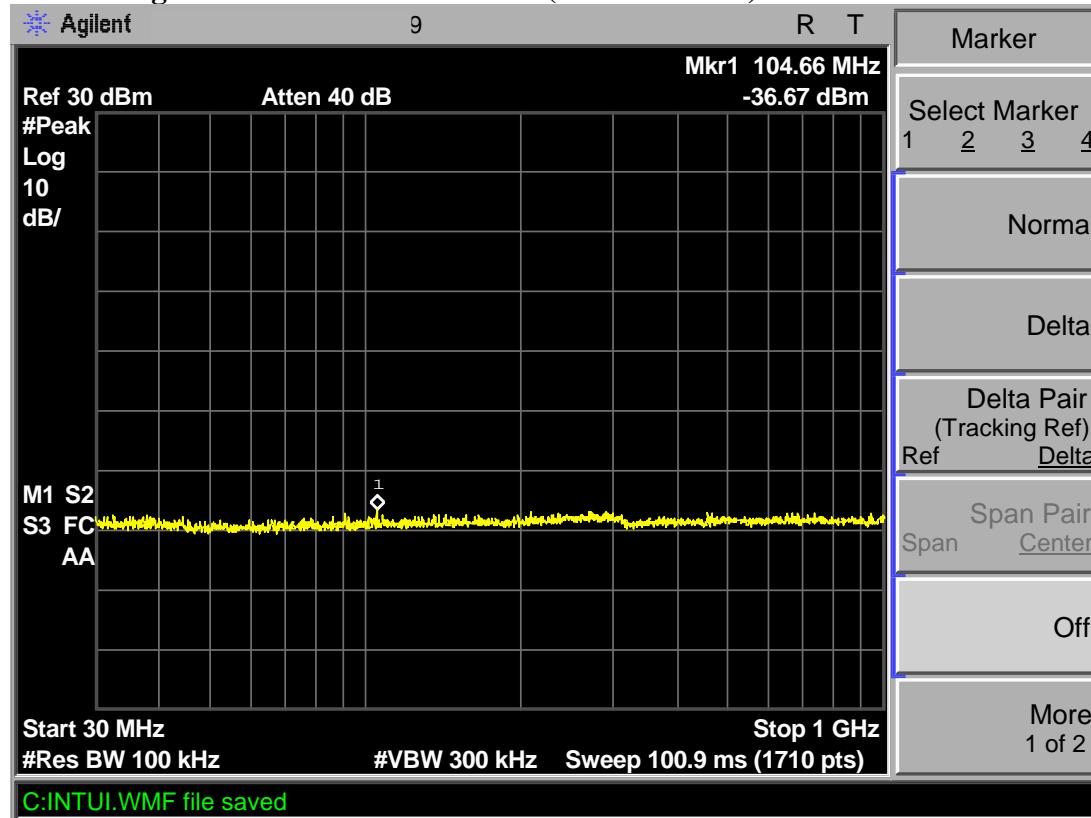
## TX 802.11g Channel Low 2412MHz (15GHz-20GHz)



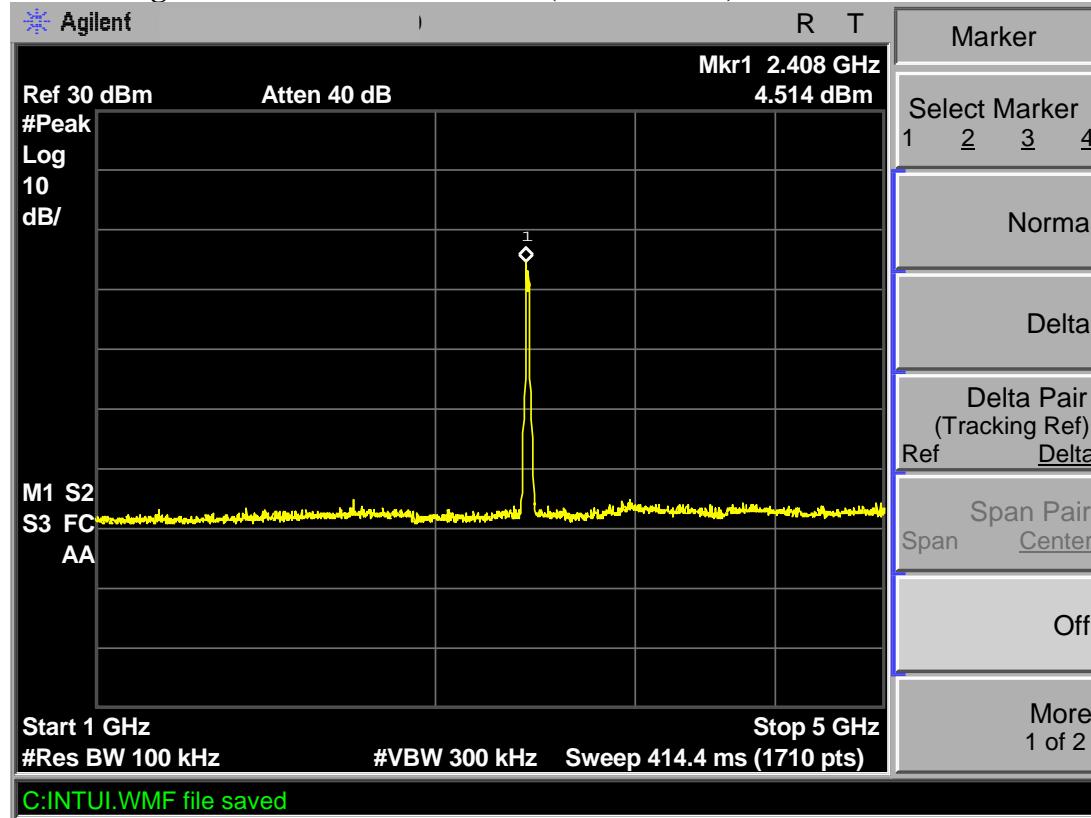
## TX 802.11g Channel Low 2412MHz (20GHz-25GHz)



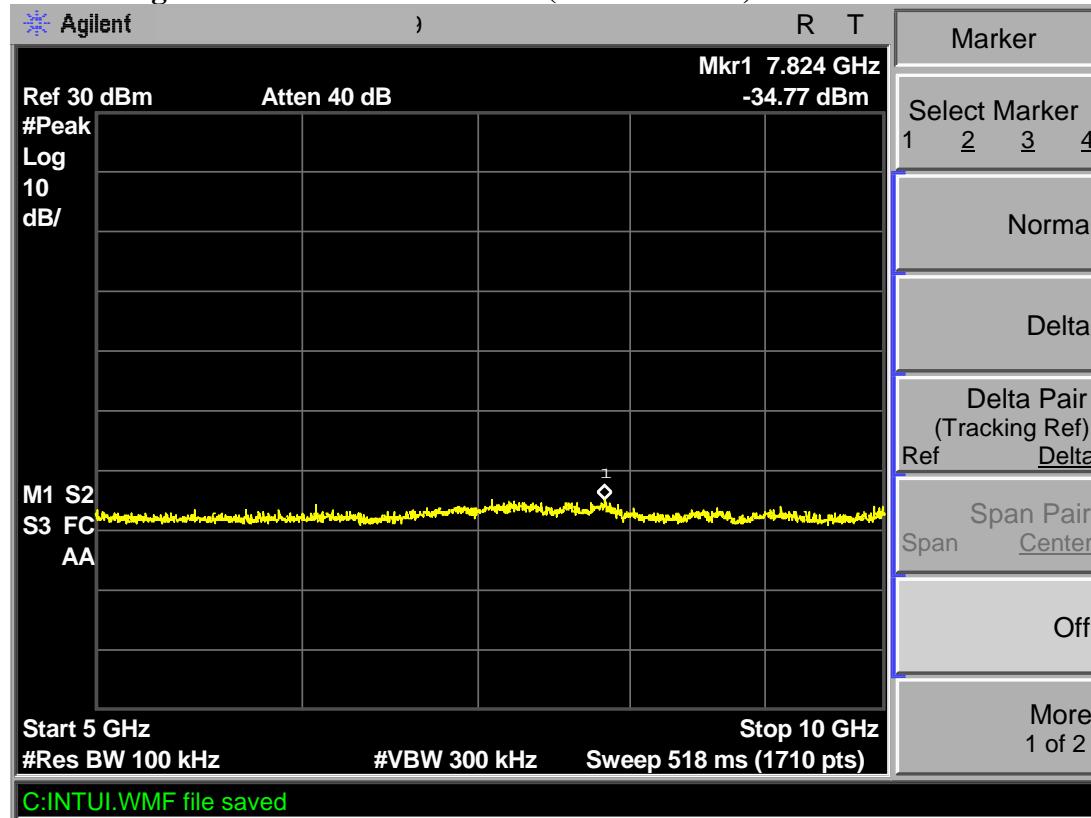
## TX 802.11g Channel Middle 2437MHz (30MHz-1GHz)



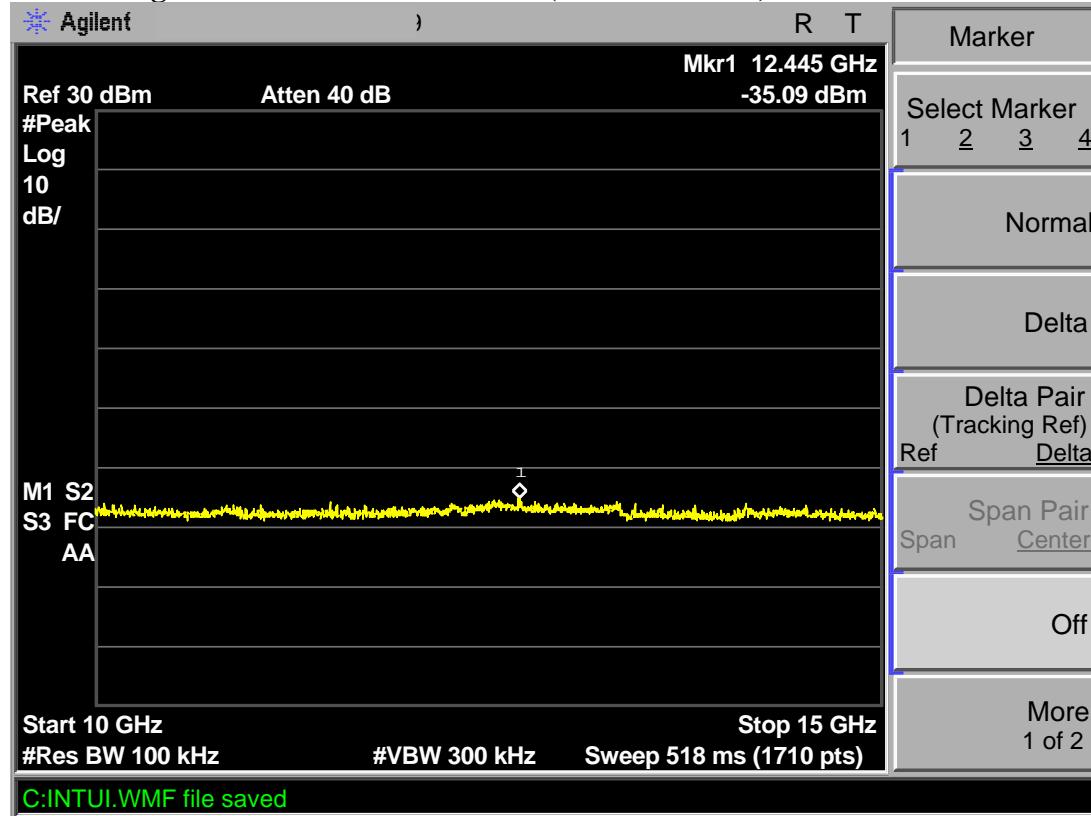
## TX 802.11g Channel Middle 2437MHz (1GHz-5GHz)



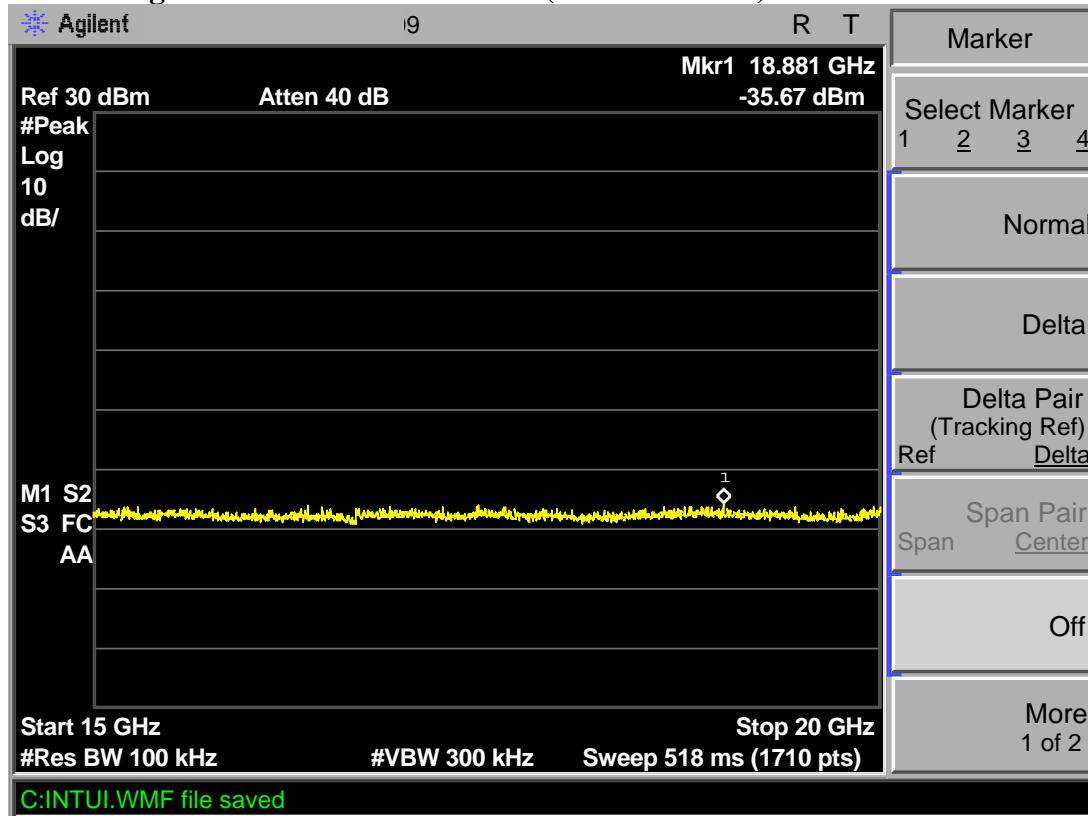
## TX 802.11g Channel Middle 2437MHz (5GHz-10GHz)



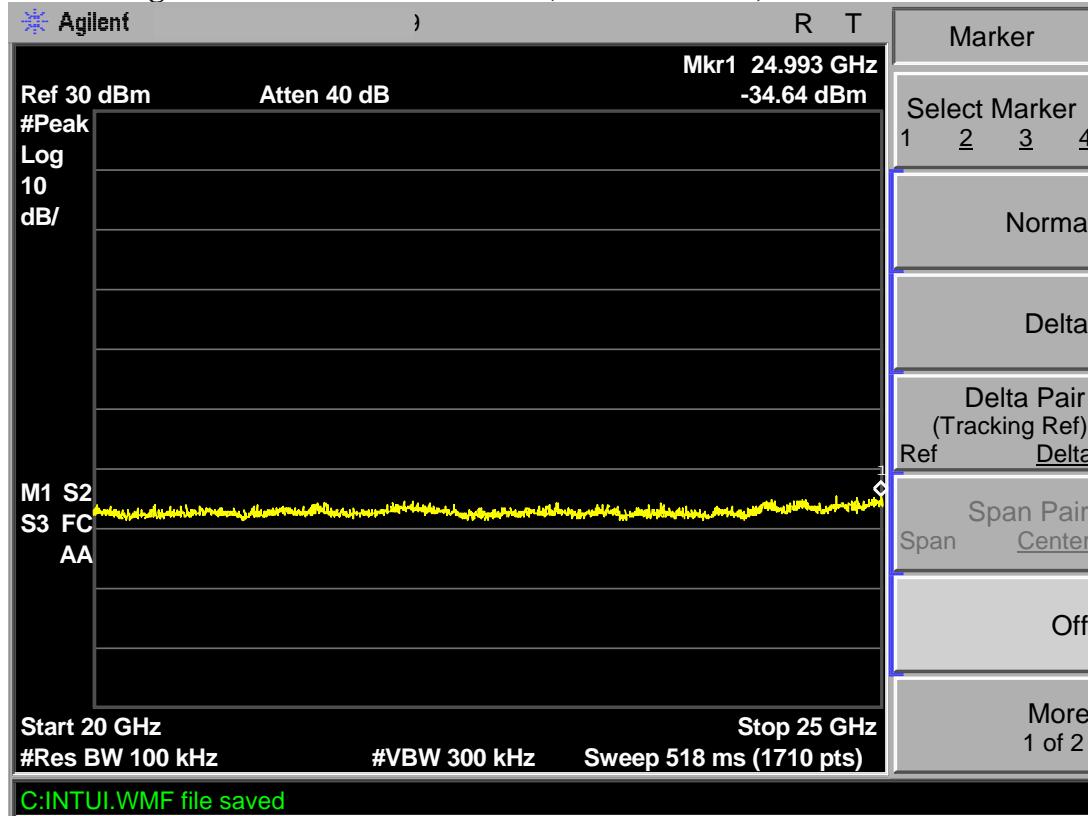
## TX 802.11g Channel Middle 2437MHz (10GHz-15GHz)



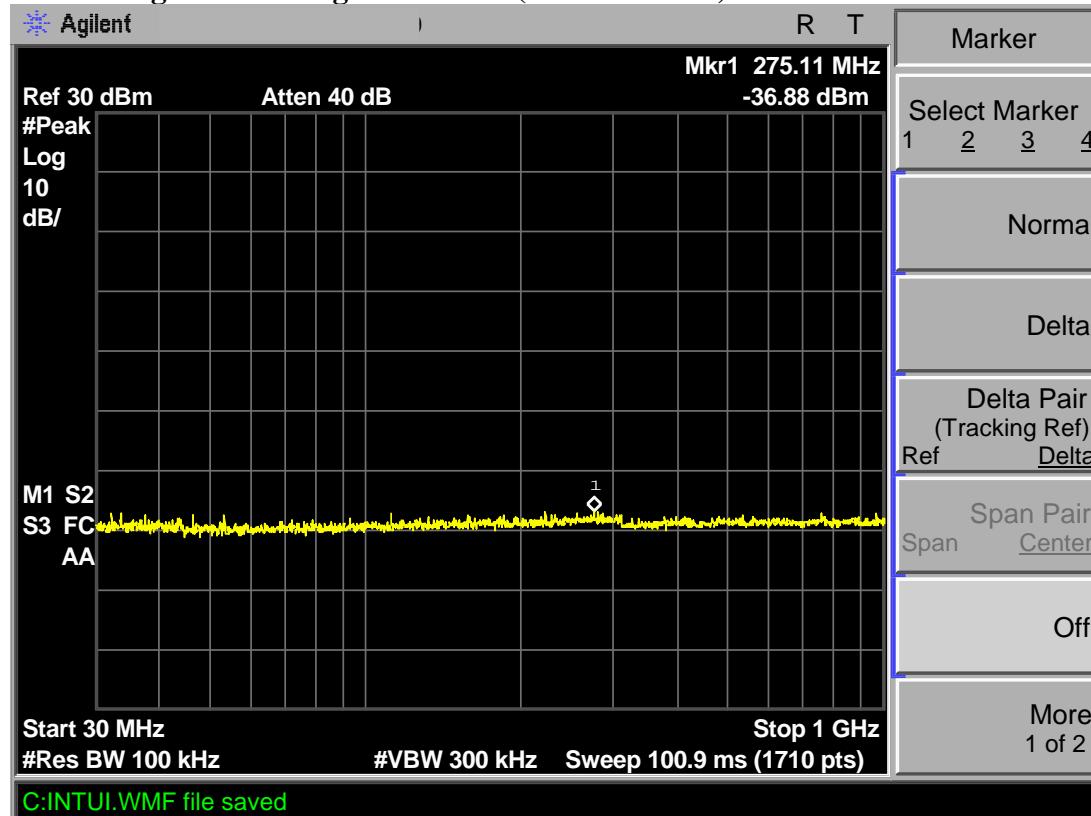
## TX 802.11g Channel Middle 2437MHz (15GHz-20GHz)



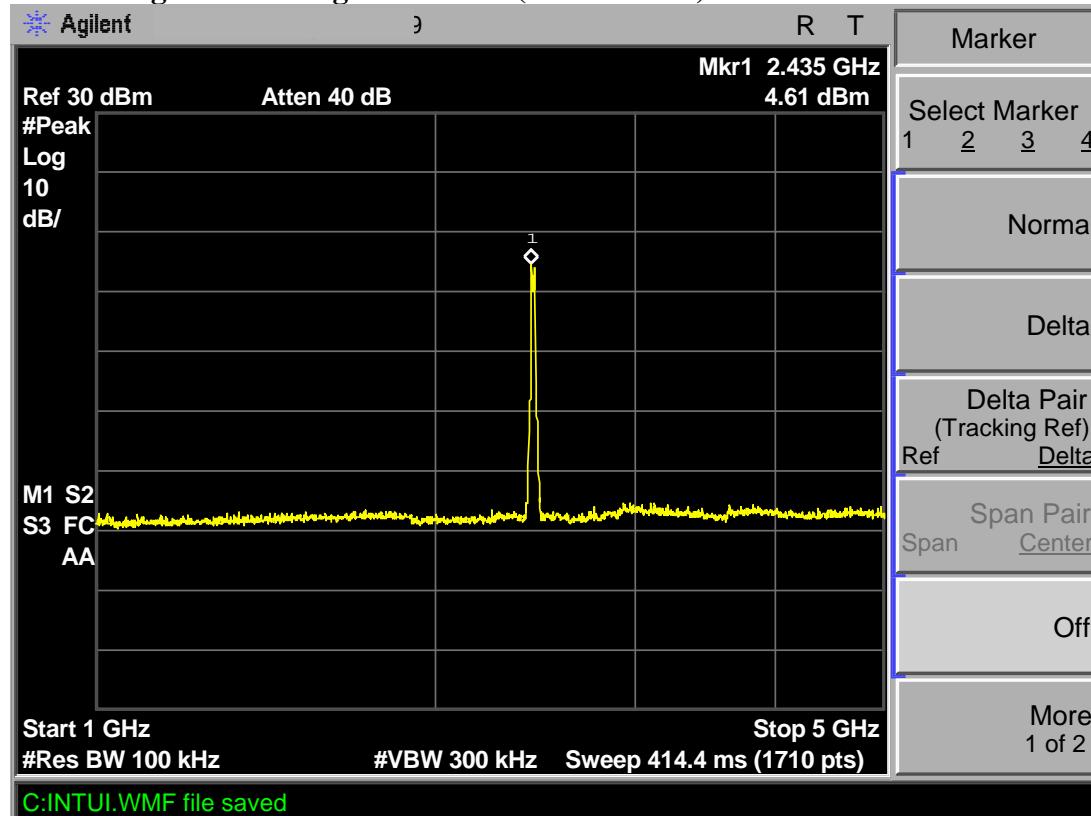
## TX 802.11g Channel Middle 2437MHz (20GHz-25GHz)

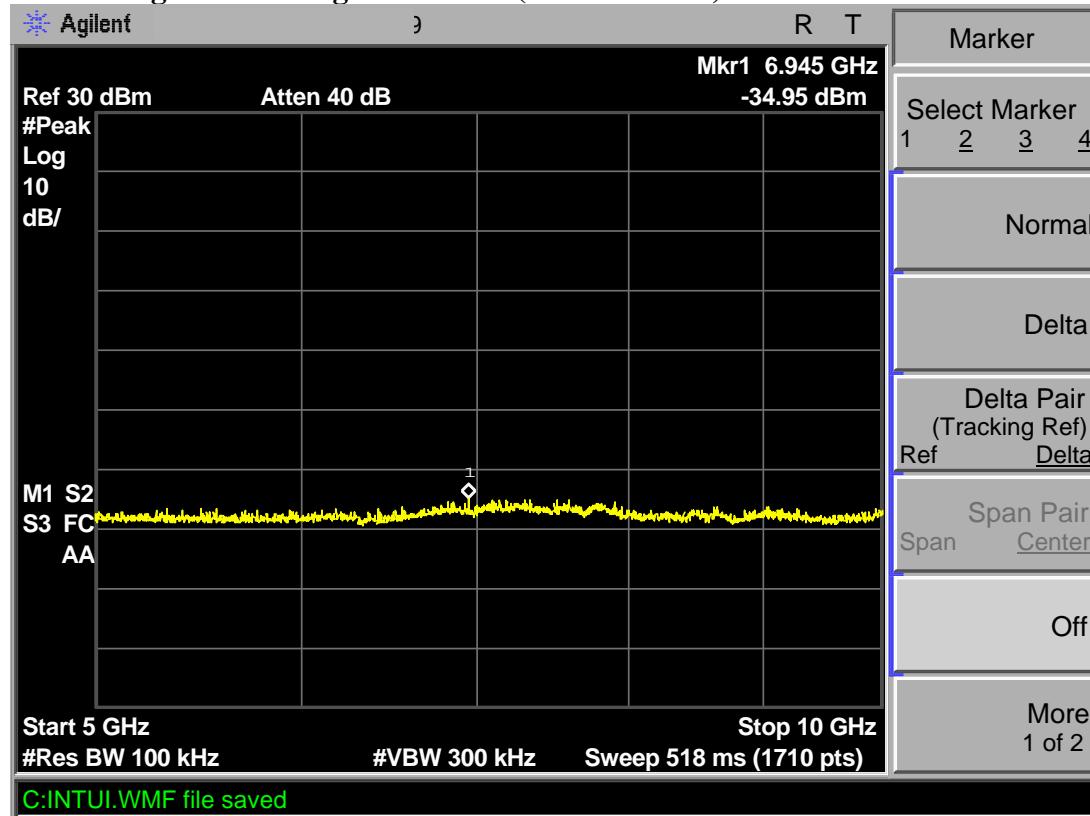
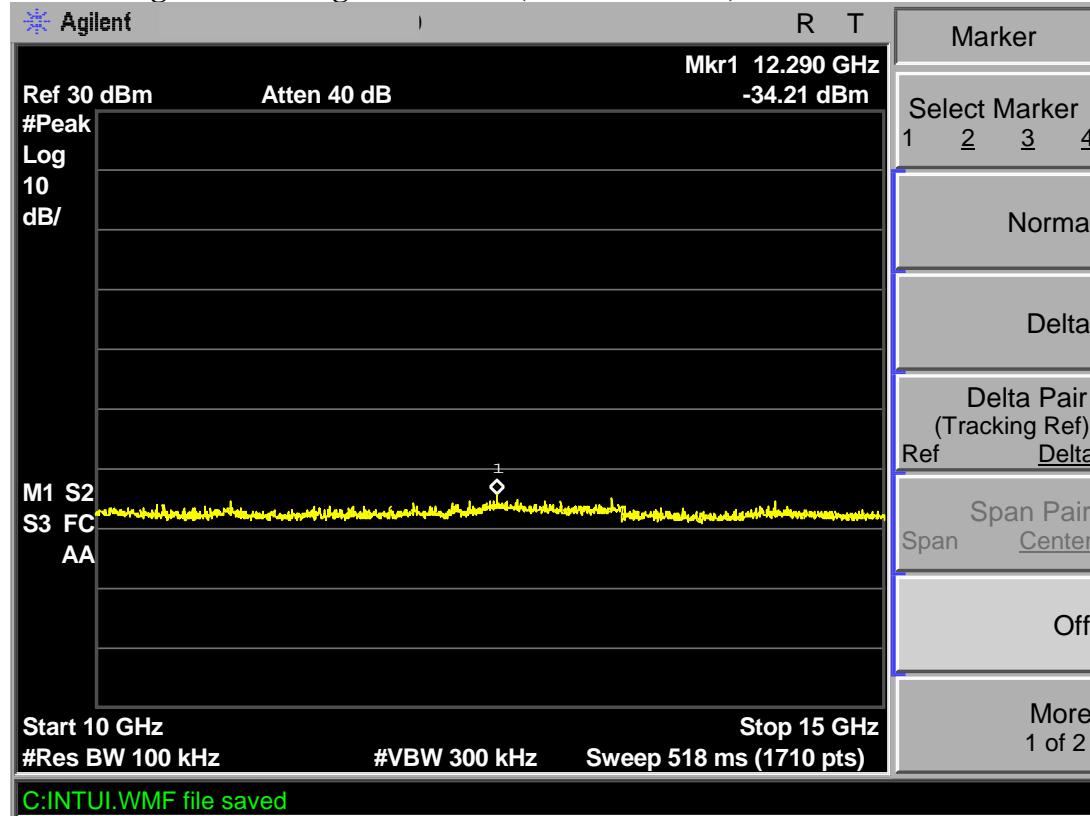


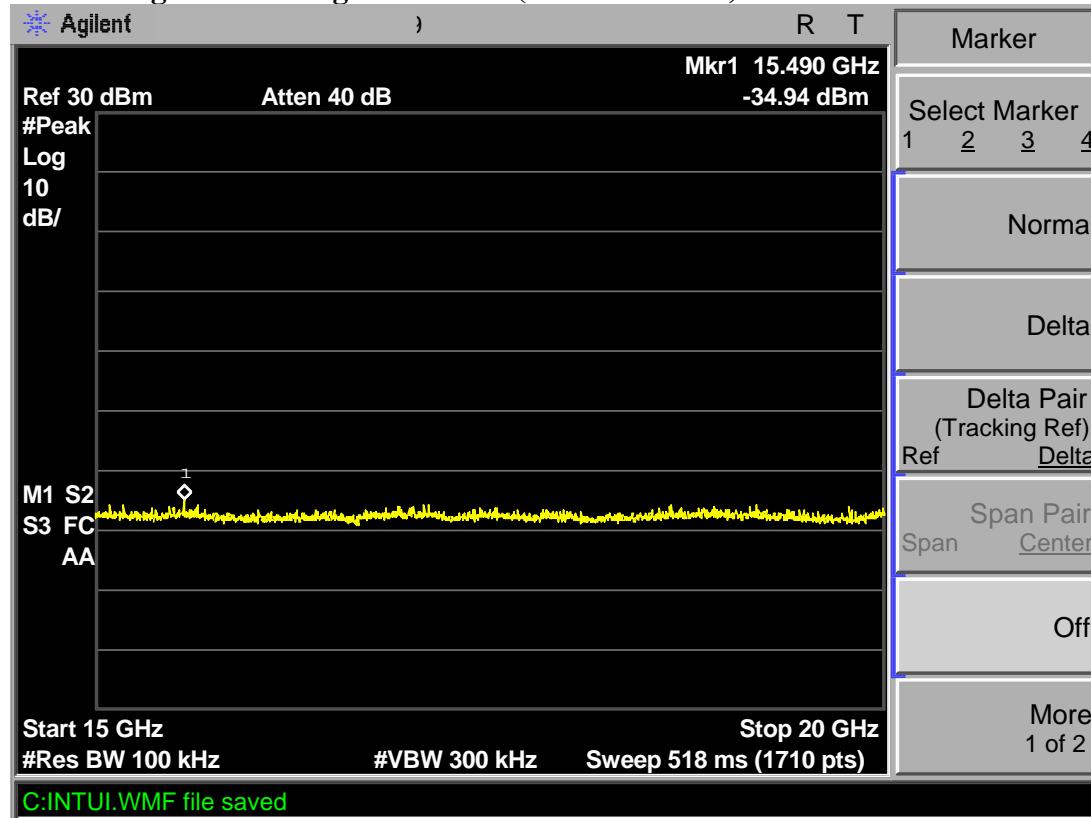
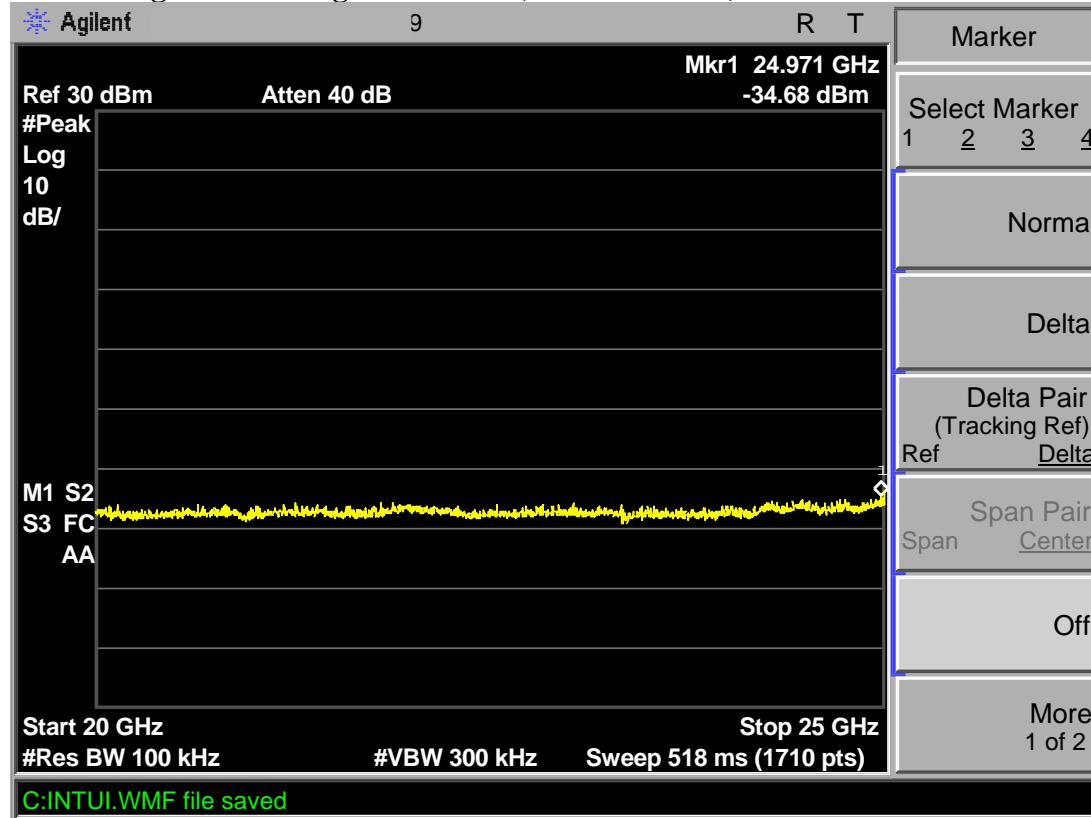
## TX 802.11g Channel High 2462MHz (30MHz-1GHz)

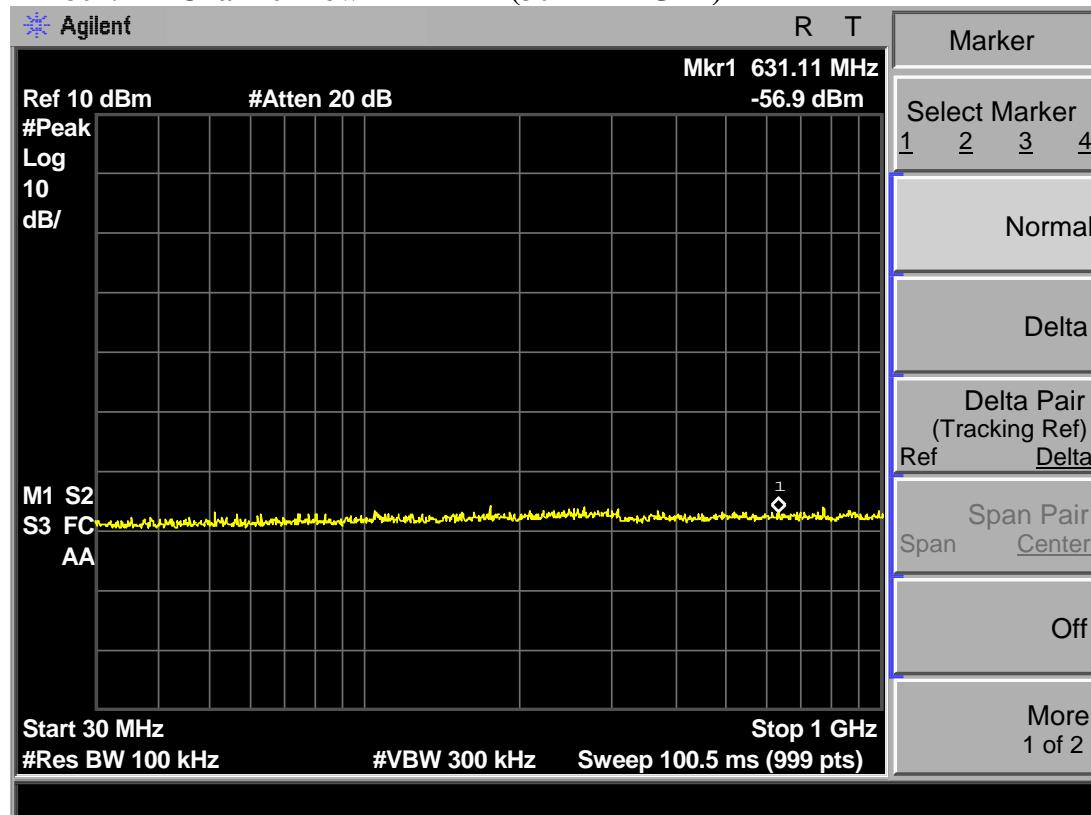
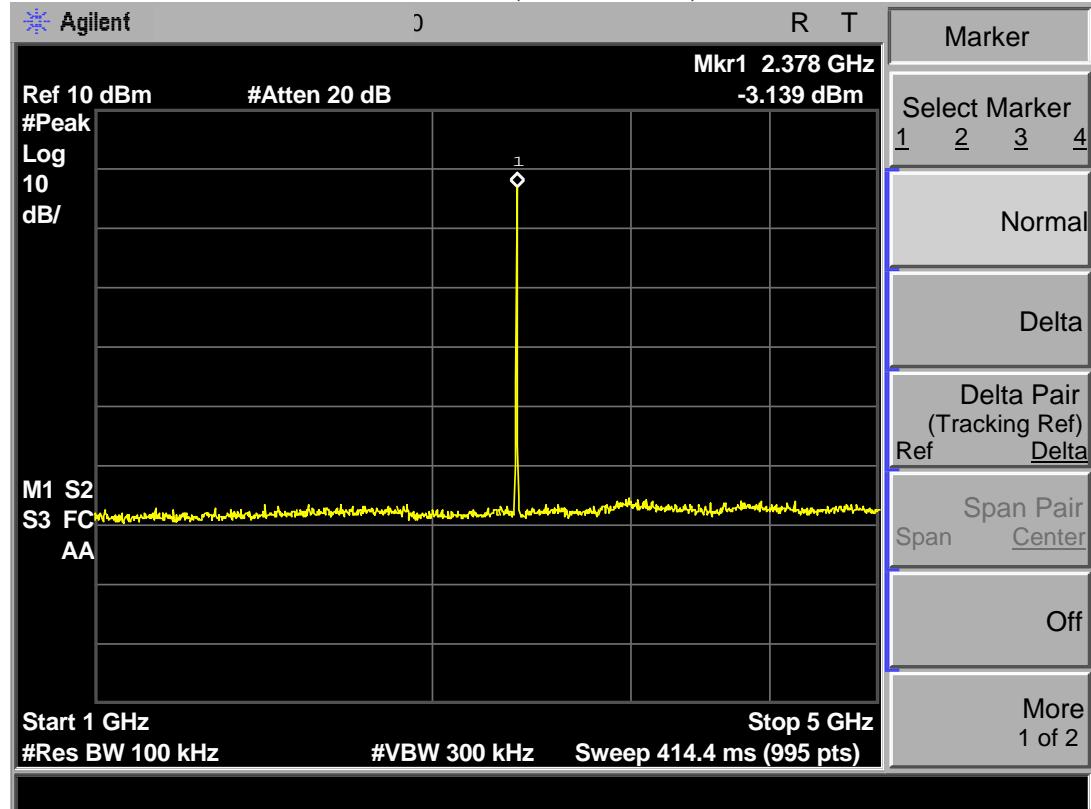


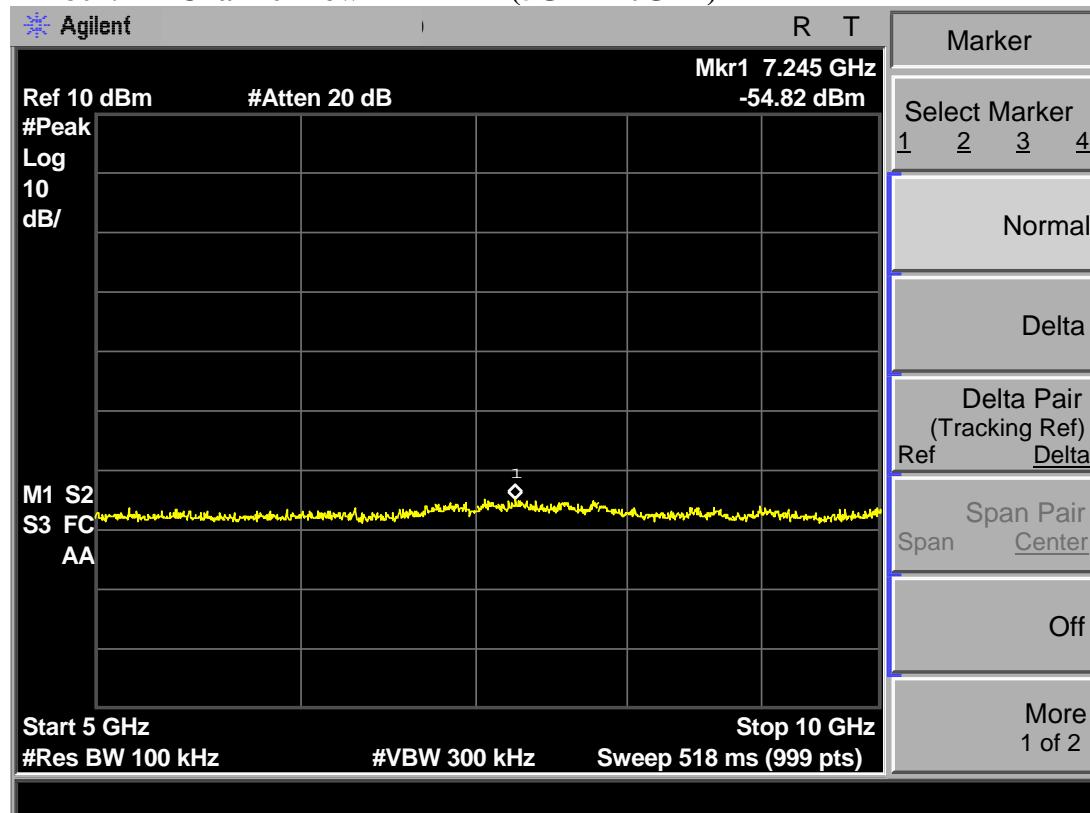
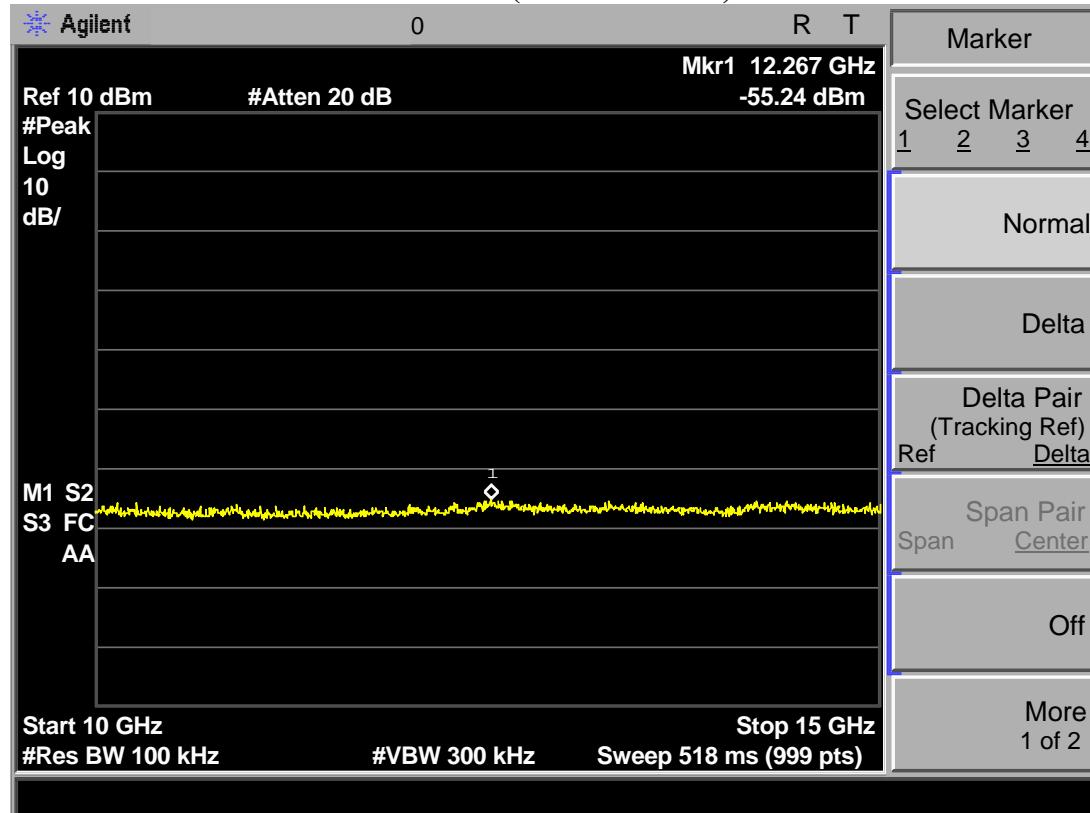
## TX 802.11g Channel High 2462MHz (1GHz-5GHz)



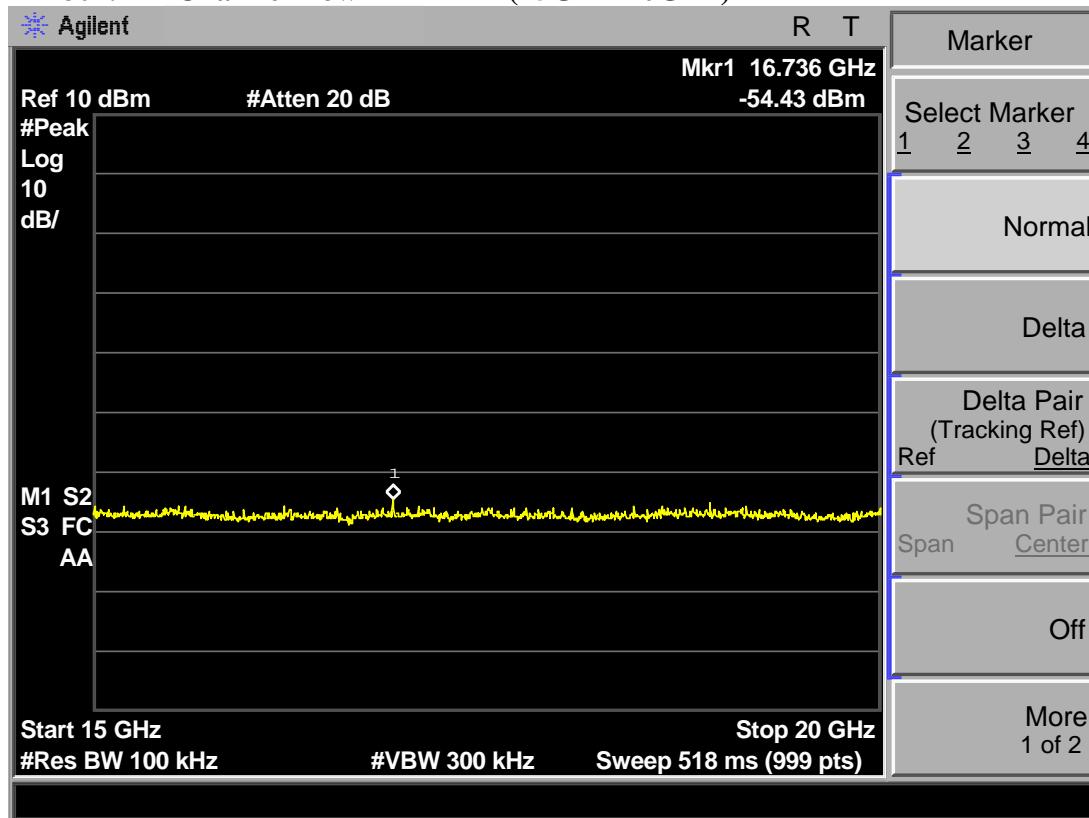
**TX 802.11g Channel High 2462MHz (5GHz-10GHz)****TX 802.11g Channel High 2462MHz (10GHz-15GHz)**

**TX 802.11g Channel High 2462MHz (15GHz-20GHz)****TX 802.11g Channel High 2462MHz (20GHz-25GHz)**

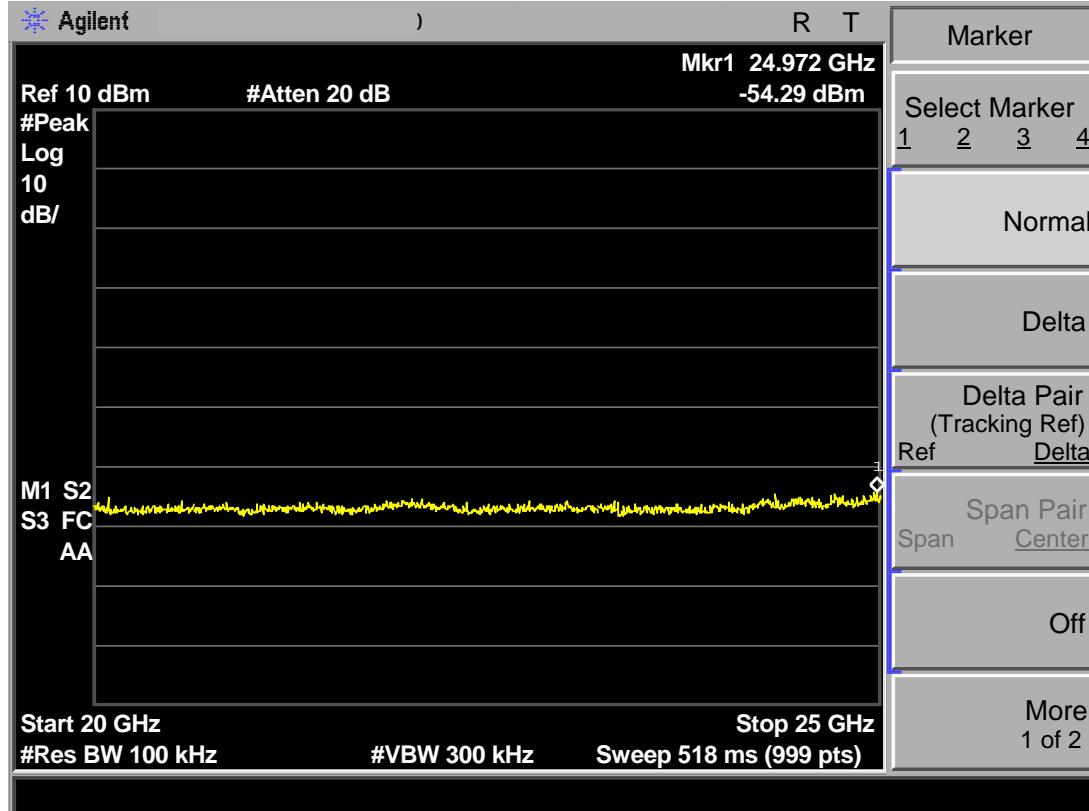
**TX 802.11n Channel Low 2412MHz (30MHz-1GHz)****TX 802.11n Channel Low 2412MHz (1GHz-5GHz)**

**TX 802.11n Channel Low 2412MHz (5GHz-10GHz)****TX 802.11n Channel Low 2412MHz (10GHz-15GHz)**

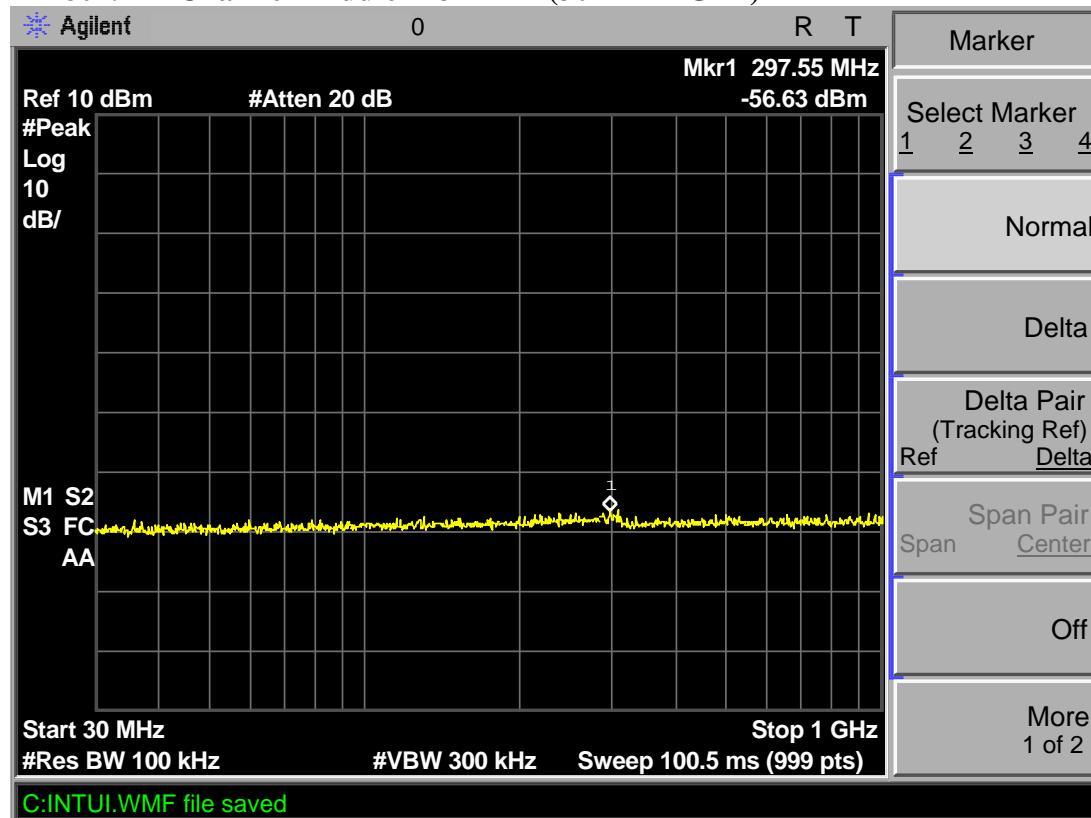
## TX 802.11n Channel Low 2412MHz (15GHz-20GHz)



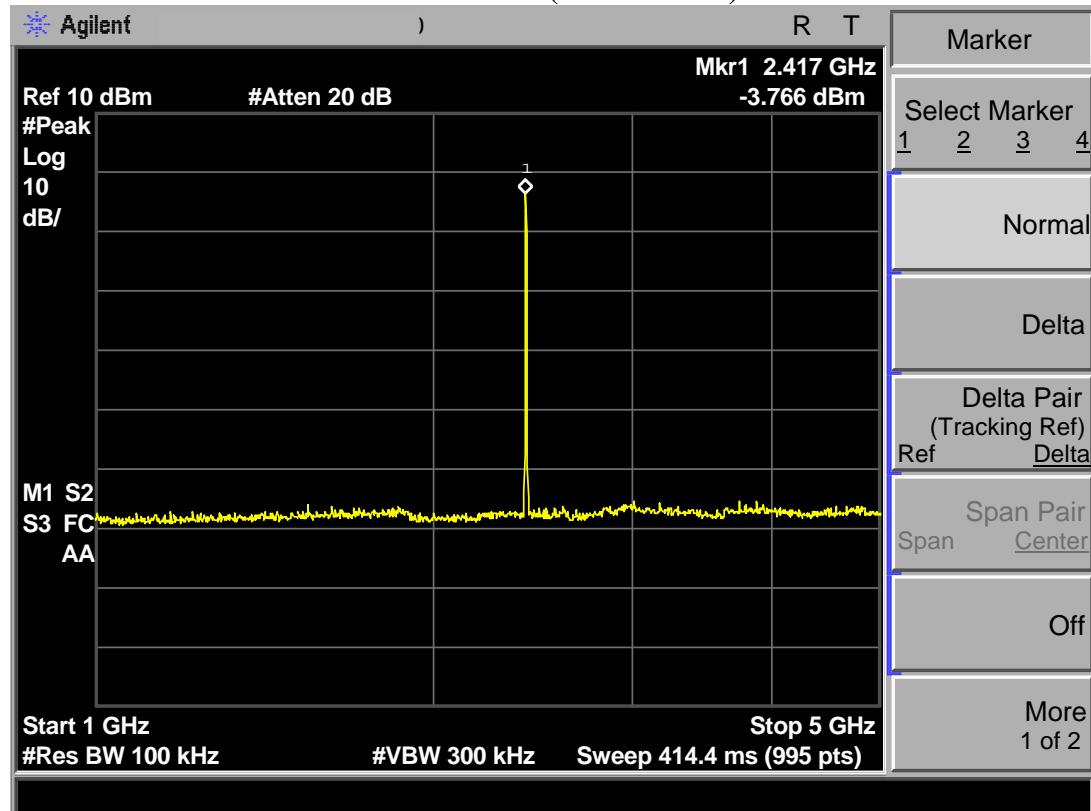
## TX 802.11n Channel Low 2412MHz (20GHz-25GHz)



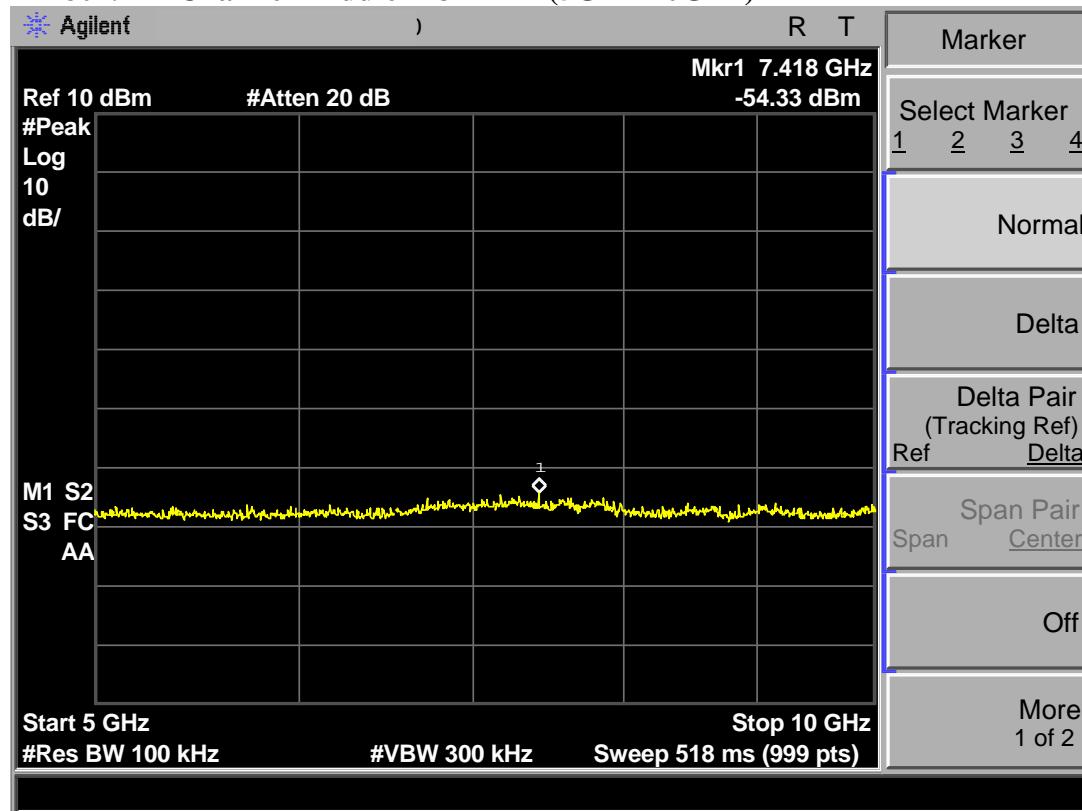
## TX 802.11n Channel Middle 2437MHz (30MHz-1GHz)



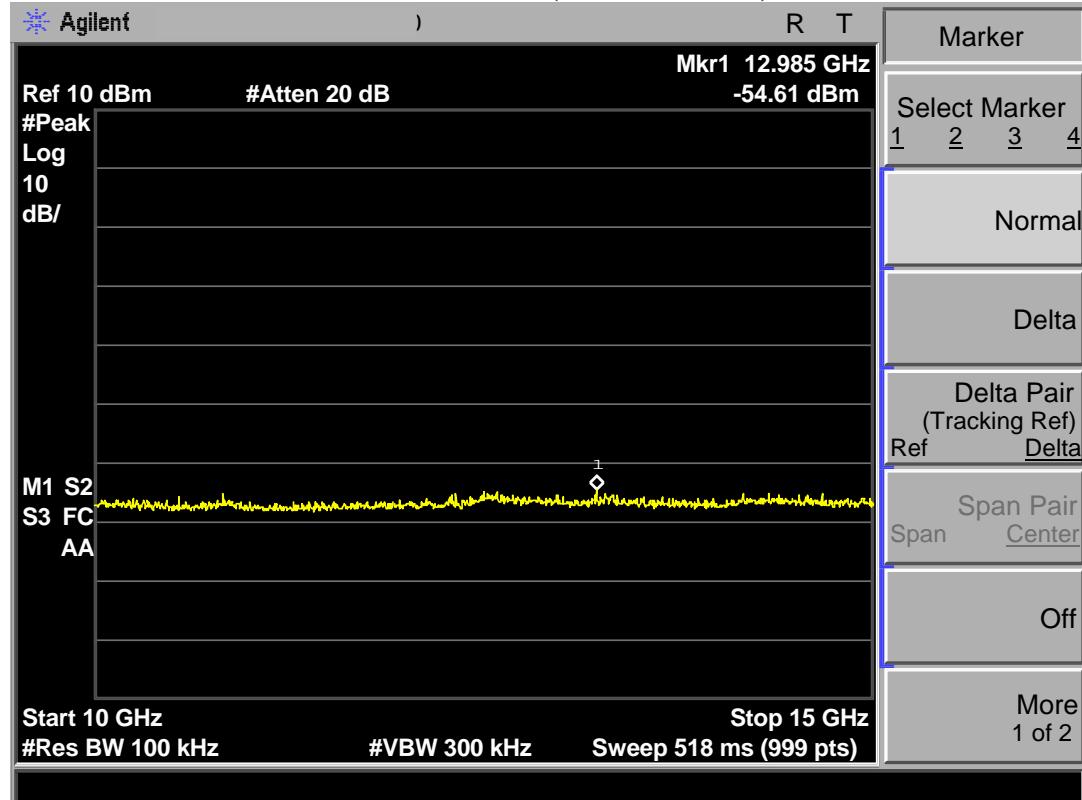
## TX 802.11n Channel Middle 2437MHz (1GHz-5GHz)



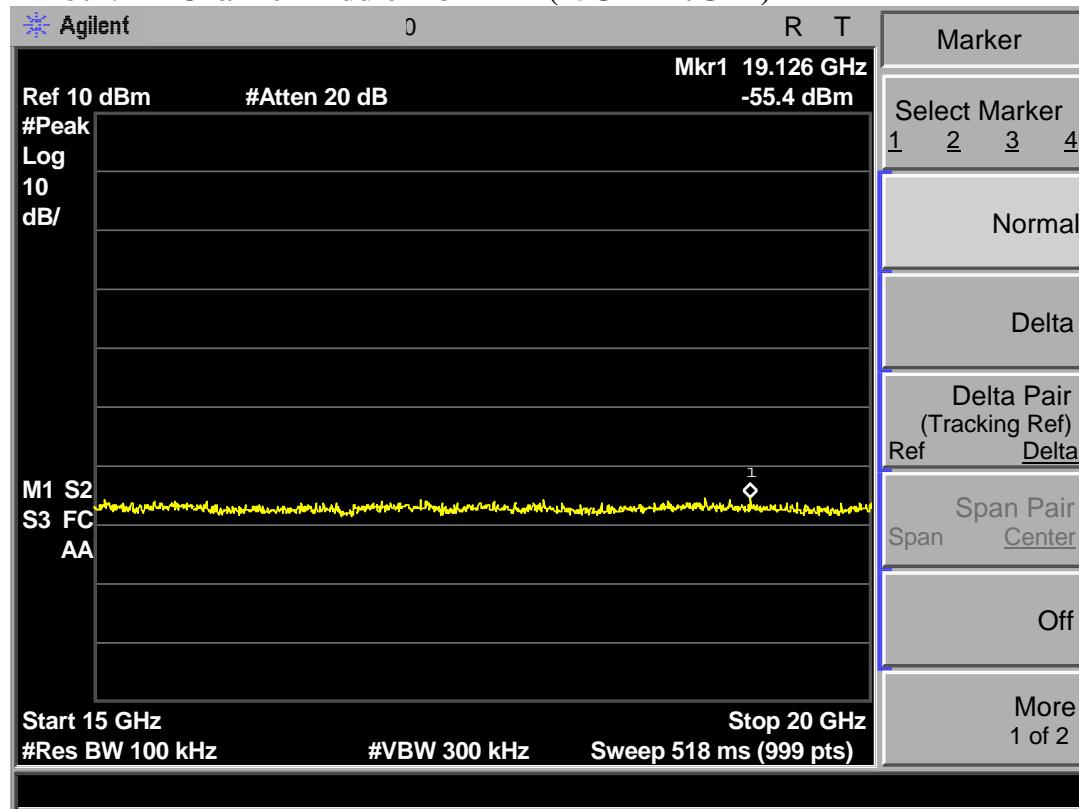
## TX 802.11n Channel Middle 2437MHz (5GHz-10GHz)



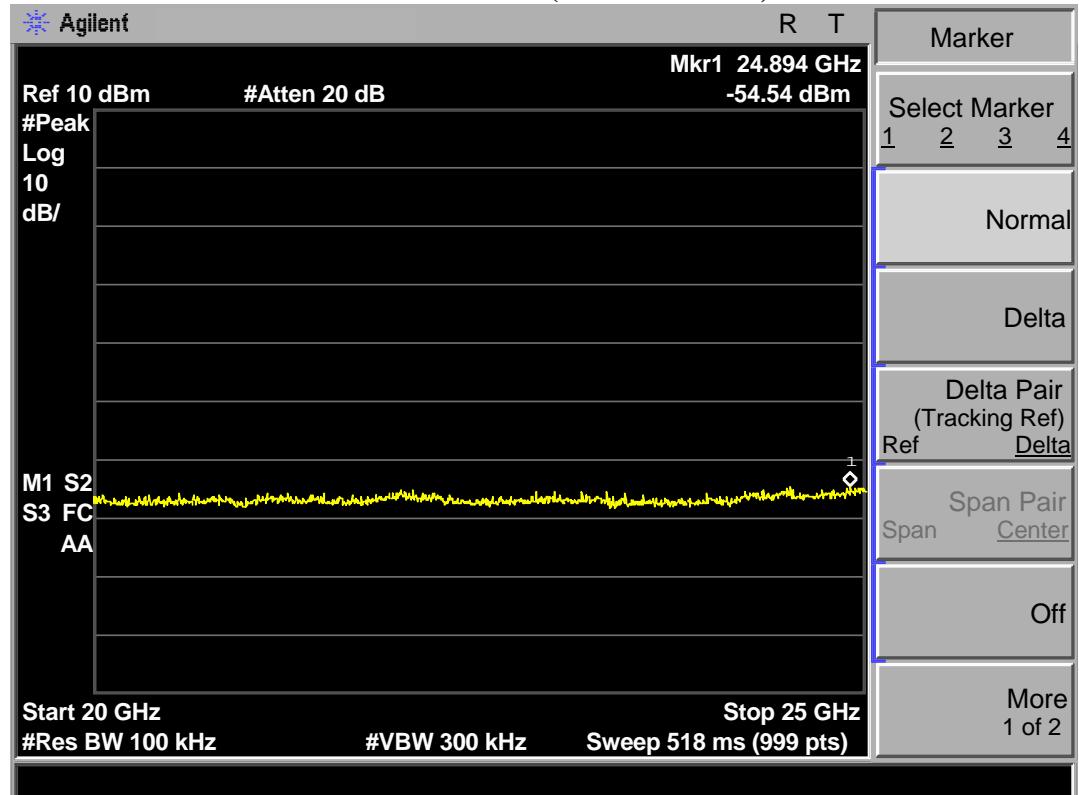
## TX 802.11n Channel Middle 2437MHz (10GHz-15GHz)

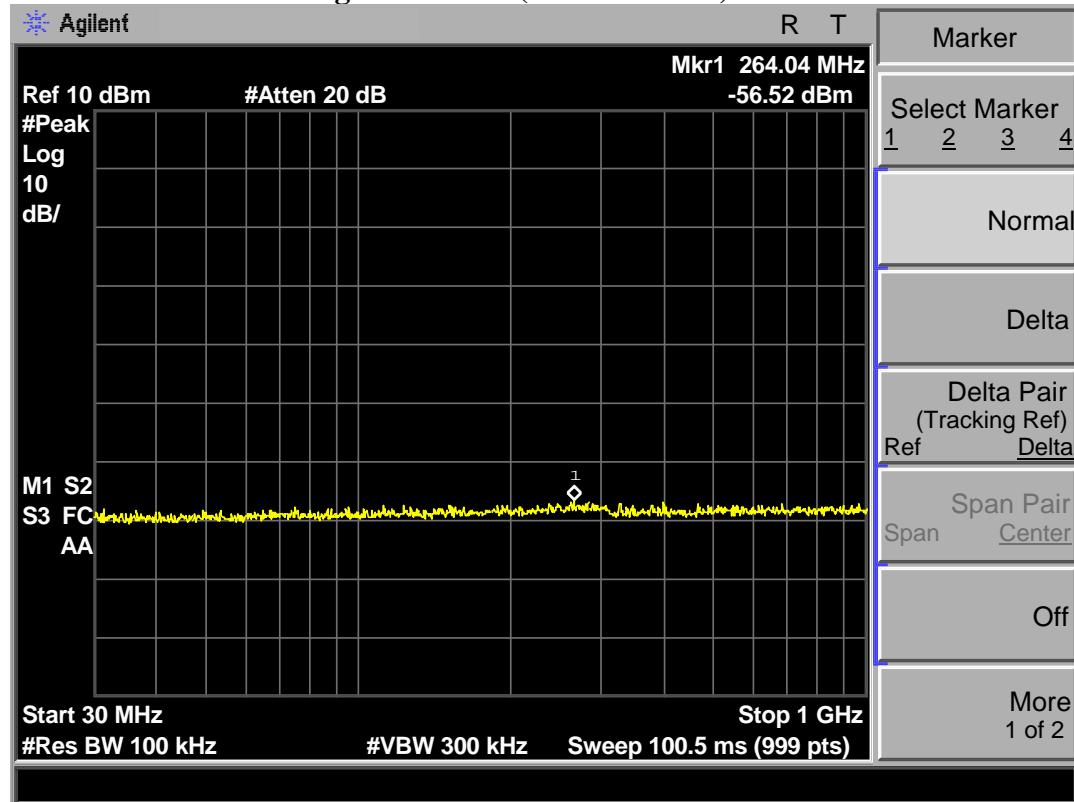
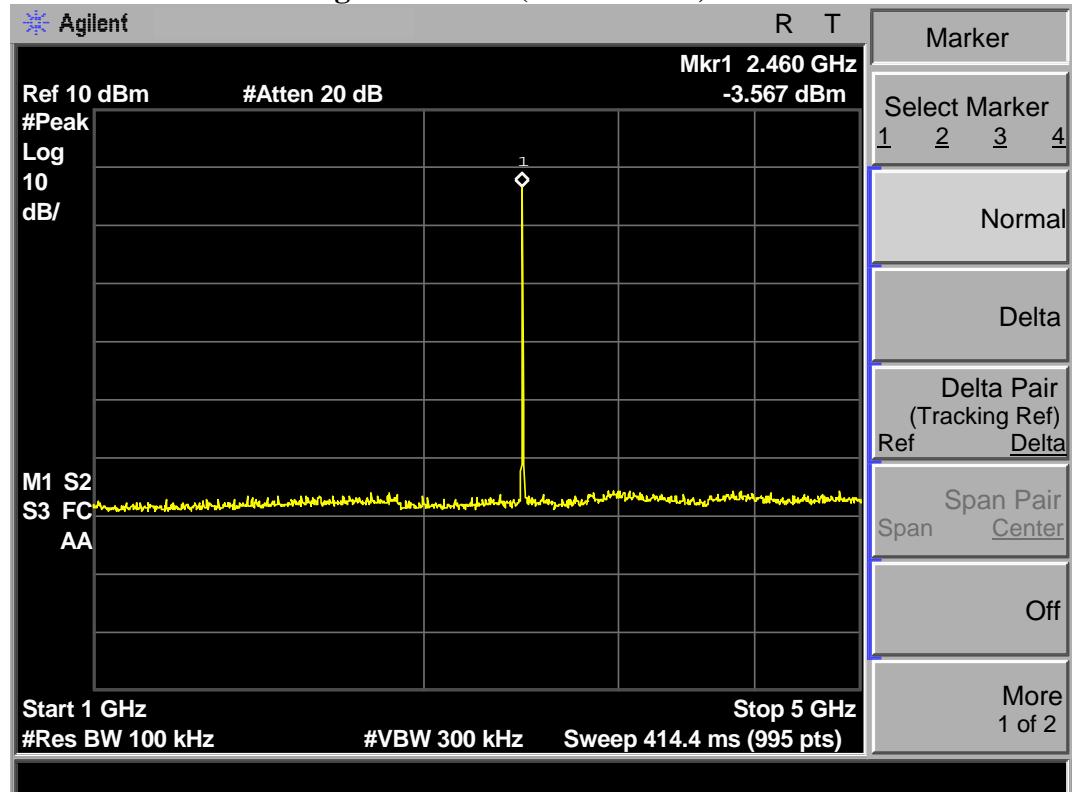


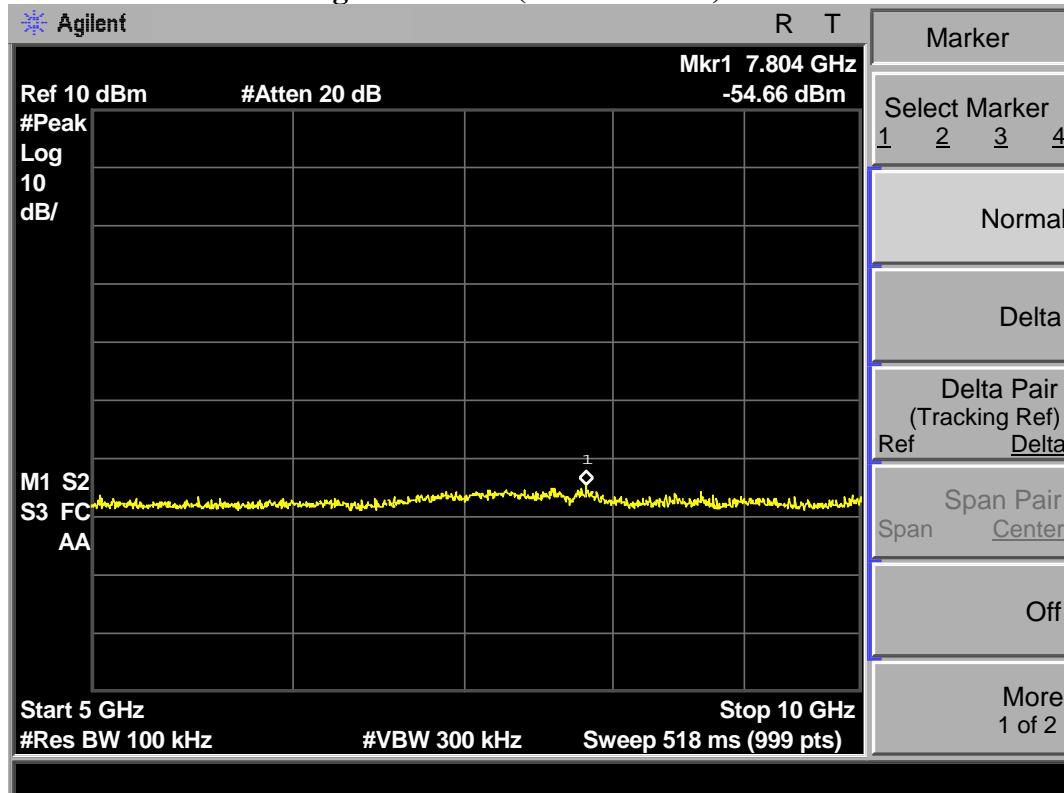
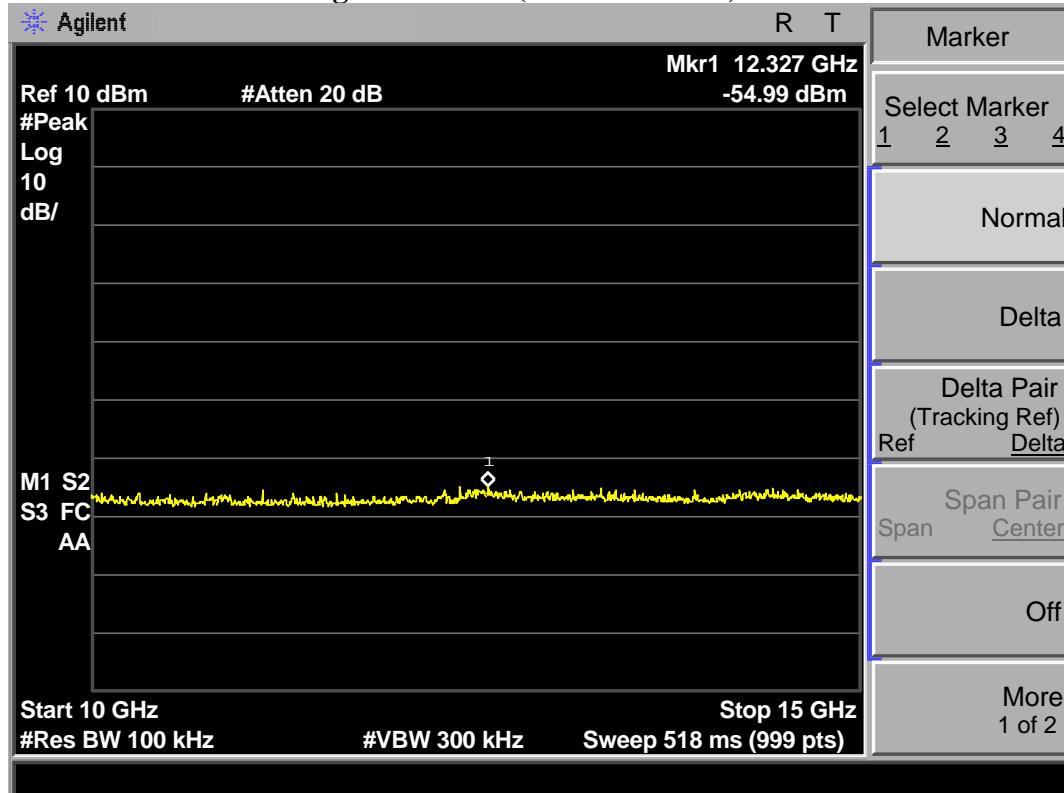
## TX 802.11n Channel Middle 2437MHz (15GHz-20GHz)

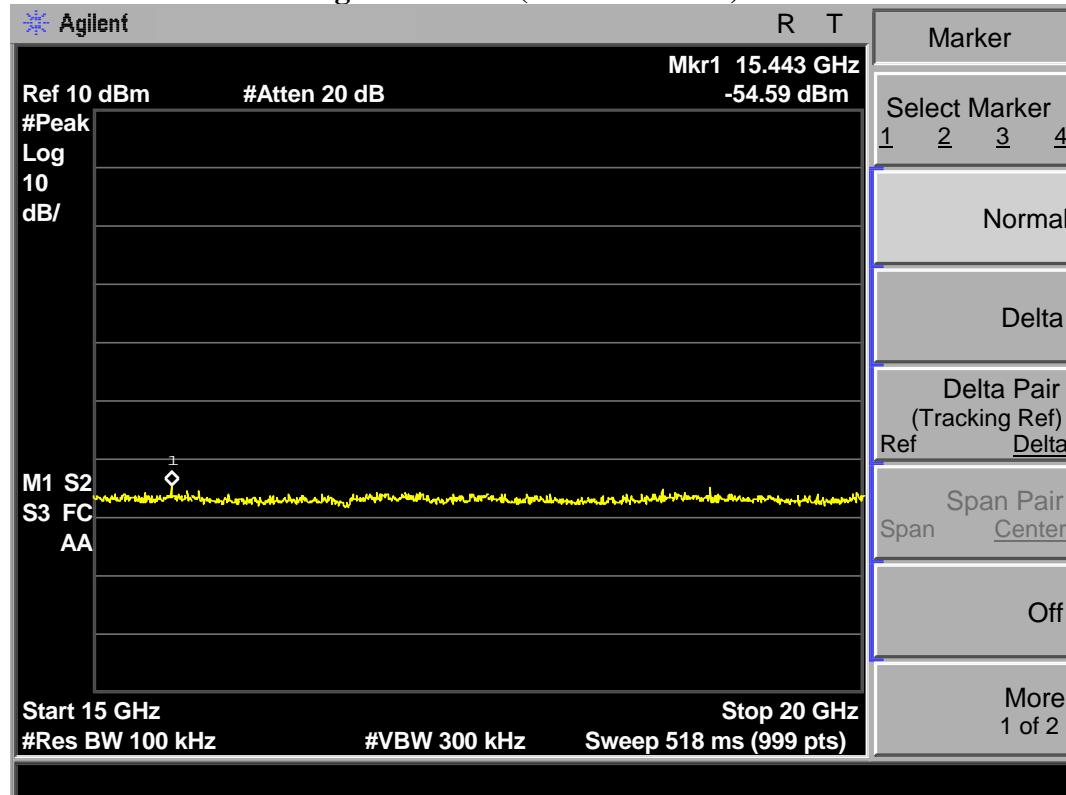
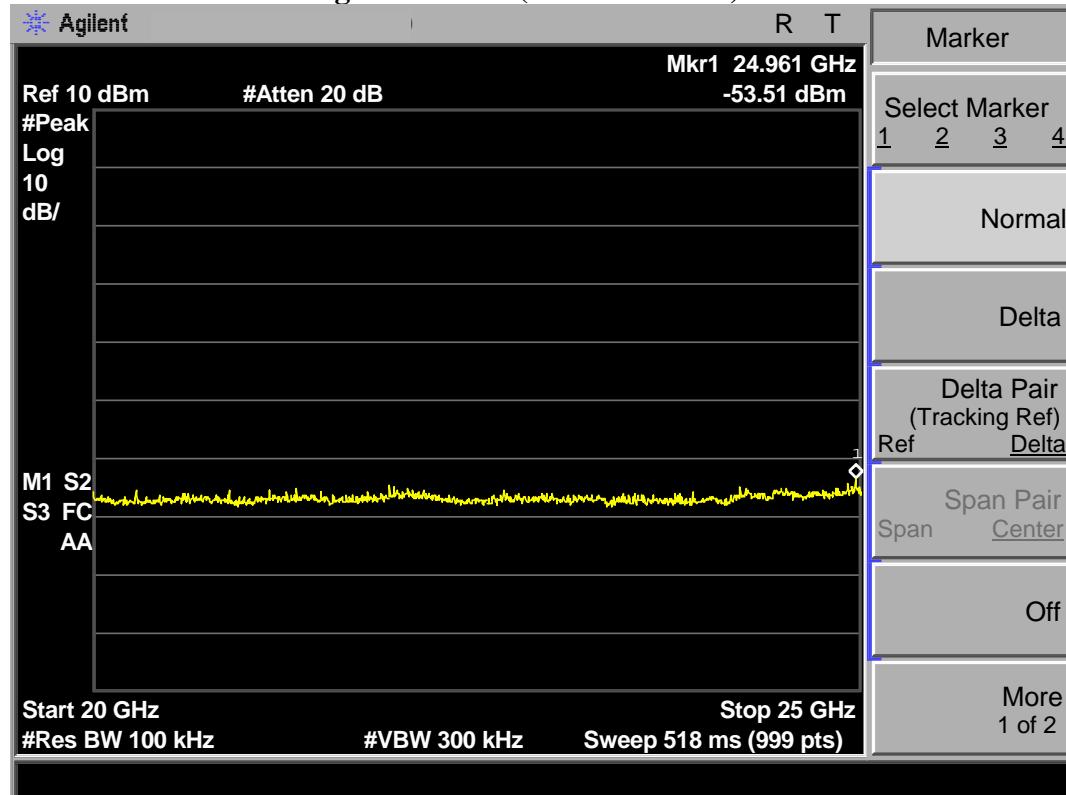


## TX 802.11n Channel Middle 2437MHz (20GHz-25GHz)



**TX 802.11n Channel High 2462MHz (30MHz-1GHz)****TX 802.11n Channel High 2462MHz (1GHz-5GHz)**

**TX 802.11n Channel High 2462MHz (5GHz-10GHz)****TX 802.11n Channel High 2462MHz (10GHz-15GHz)**

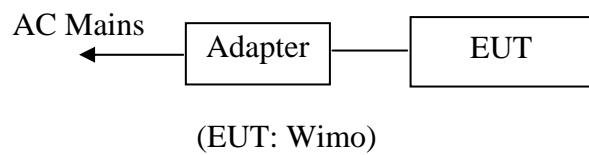
**TX 802.11n Channel High 2462MHz (15GHz-20GHz)****TX 802.11n Channel High 2462MHz (20GHz-25GHz)**

## 11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

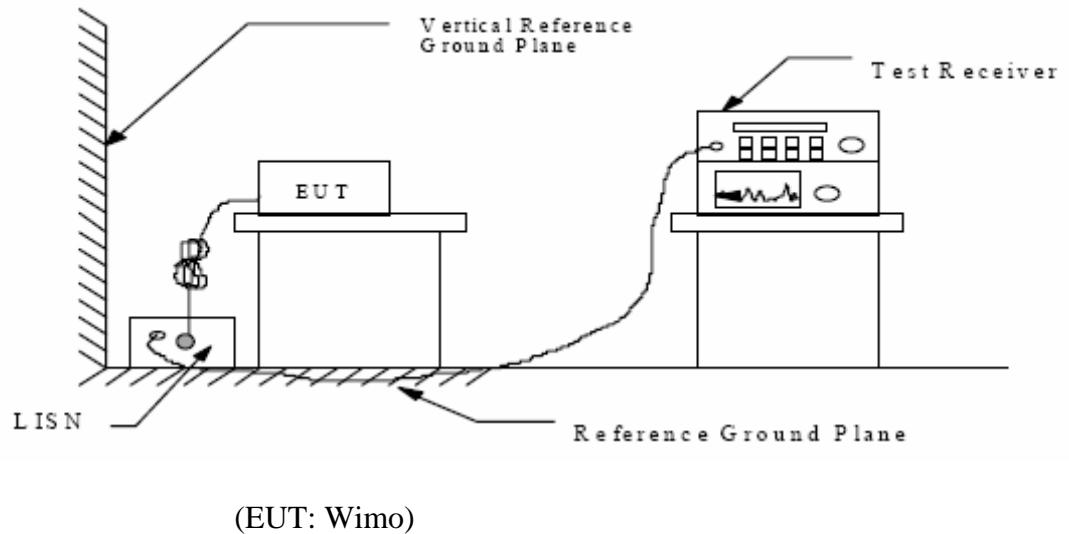
### 15 SECTION 15.207(A)

#### 11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and simulators



11.1.2.Shielding Room Test Setup Diagram



#### 11.2.The Emission Limit

11.2.1.Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB( $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 - 56.0 *	56.0 - 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

\* Decreases with the logarithm of the frequency.

### 11.3.Configuration of EUT on Measurement

The following equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

#### 11.3.1.Wimo (EUT)

Model Number	:	wimo wf
Serial Number	:	N/A
Manufacturer	:	ITALCOM GROUP

### 11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in TX (802.11b Channel Middle, 802.11g Channel Middle, 802.11n Channel Middle) mode measure it.

### 11.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2003 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

## 11.6.Power Line Conducted Emission Measurement Results

**PASS.**

The frequency range from 150kHz to 30MHz is checked.

Date of Test:	January 11, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	AC 120V/60Hz
Test Mode:	TX 802.11b Channel Middle	Test Engineer:	Pei

Frequency (MHz)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Line
0.198359	57.30	63.7	-6.4	QP	Neutral
0.500809	47.90	56	-8.1	QP	
2.099304	40.00	56	-16.0	QP	
2.193544	34.30	56	-21.7	QP	
8.489359	32.70	60	-27.3	QP	
16.273093	28.00	60	-32.0	QP	
0.199949	46.70	53.6	-6.9	AV	
0.498814	39.00	46	-7.0	AV	
2.099304	36.70	46	-9.3	AV	
2.193544	31.80	46	-14.2	AV	
8.48359	26.40	50	-23.6	AV	
16.079367	35.70	50	-14.3	AV	
0.198359	59.00	63.7	-4.7	QP	
0.299243	51.80	60.3	-8.5	QP	
0.398888	45.80	27.9	-12.1	QP	
1.899908	40.10	56	-15.9	QP	Live
3.295983	35.40	56	-20.6	QP	
15.887948	31.60	60	-28.4	QP	
0.198359	48.30	53.7	-5.4	AV	
0.498814	37.40	46	-8.6	AV	
2.099304	36.20	46	-9.8	AV	
2.394903	31.20	46	-14.8	AV	
7.995934	22.00	50	-18.0	AV	
15.887948	32.50	50	-17.5	AV	

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

Date of Test:	January 11, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	AC 120V/60Hz
Test Mode:	TX 802.11g Channel Middle	Test Engineer:	Pei

Frequency (MHz)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Line
0.199949	56.70	63.6	-6.9	QP	Neutral
0.498814	48.30	56	-7.7	QP	
2.001110	42.10	56	-13.9	QP	
2.202318	37.70	56	-18.3	QP	
8.905934	33.30	60	-26.7	QP	
16.015306	38.80	60	-21.2	QP	
0.199949	46.00	53.6	-7.6	AV	
0.500809	38.90	46	-7.1	AV	
2.001110	38.80	46	-7.2	AV	
2.202318	35.10	46	-10.9	AV	
7.806690	25.40	50	-24.6	AV	Live
16.015306	38.90	50	-11.1	AV	
0.199152	58.90	63.6	-4.7	QP	
0.398888	45.60	57.9	-12.3	QP	
2.001110	41.10	56	-14.9	QP	
2.202318	37.40	56	-18.6	QP	
7.900746	28.70	60	-31.3	QP	
16.208260	35.70	60	-24.3	QP	
0.200748	48.10	53.6	-5.5	AV	
0.500809	37.30	46	-8.7	AV	
2.001110	37.40	46	-8.6	AV	
2.202318	33.30	46	-12.7	AV	
10.200600	18.80	50	-31.2	AV	
16.403538	27.30	50	-22.7	AV	

Emissions attenuated more than 20 dB below the permissible value are not reported.  
The spectral diagrams are attached as below.

Date of Test:	January 11, 2012	Temperature:	25°C
EUT:	Wimo	Humidity:	50%
Model No.:	wimo wf	Power Supply:	AC 120V/60Hz
Test Mode:	TX 802.11n Channel Middle	Test Engineer:	Pei

Frequency (MHz)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Line
0.199152	56.70	63.6	-6.9	QP	Neutral
0.5008090	48.40	56	-7.6	QP	
2.001110	42.00	56	-14.0	QP	
2.202318	37.90	56	-18.1	QP	
9.013233	34.00	60	-26.0	QP	
15.824650	37.80	60	-22.2	QP	
0.199949	45.80	53.6	-7.8	AV	
0.500809	39.00	46	-7.0	AV	
2.001110	38.60	46	-7.4	AV	
2.202318	35.20	46	-10.8	AV	
9.013233	26.20	50	-23.8	AV	
15.824650	38.40	50	-11.6	AV	
0.199152	58.60	63.6	-5.0	QP	
0.299243	51.30	60.3	-9.0	QP	
0.500809	42.90	56	-13.1	QP	
2.001110	40.60	56	-15.4	QP	Live
2.202318	38.00	56	-18.0	QP	
15.824650	36.50	60	-23.5	QP	
0.199949	48.50	53.6	-5.1	AV	
0.498814	37.40	46	-8.6	AV	
2.001110	37.20	46	-8.8	AV	
2.202318	33.80	46	-12.2	AV	
9.013233	23.60	50	-26.4	AV	
15.824650	34.10	50	-15.9	AV	

Emissions attenuated more than 20 dB below the permissible value are not reported.  
The spectral diagrams are attached as below.

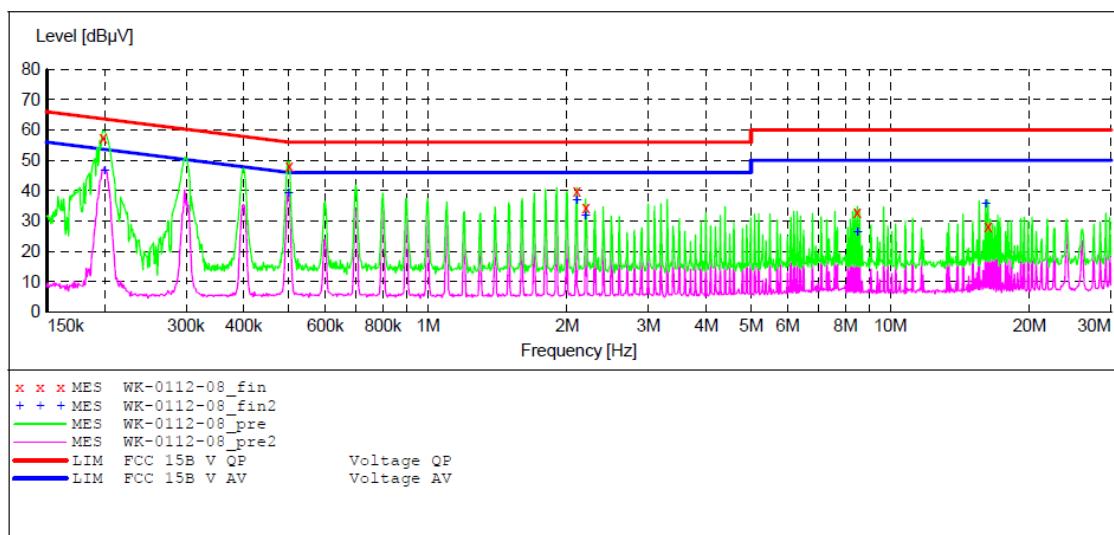
**ACCURATE TECHNOLOGY CO., LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Wimo M/N:wimo wf  
 Manufacturer: Italcom Group  
 Operating Condition: TX Channel 6 (802.11b)  
 Test Site: 1#Shielding Room  
 Operator: Kai  
 Test Specification: N 120V/60Hz  
 Comment: Mains port  
 Report No.: ATE20120041

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: - SUB_STD_VTERM2 1.70					
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Transducer
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz NSLK8126 2008
Average					



**MEASUREMENT RESULT: "WK-0112-08\_fin"**

1/12/2012 9:36AM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.198359	57.30	11.2	63.7	6.4	QP	N	GND
0.500809	47.90	12.0	56	8.1	QP	N	GND
2.099304	40.00	11.6	56	16.0	QP	N	GND
2.193544	34.30	11.6	56	21.7	QP	N	GND
8.489359	32.70	11.3	60	27.3	QP	N	GND
16.273093	28.00	11.1	60	32.0	QP	N	GND

**MEASUREMENT RESULT: "WK-0112-08\_fin2"**

1/12/2012 9:36AM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.199949	46.70	11.2	53.6	6.9	AV	N	GND
0.498814	39.00	12.0	46	7.0	AV	N	GND
2.099304	36.70	11.6	46	9.3	AV	N	GND
2.193544	31.80	11.6	46	14.2	AV	N	GND
8.489359	26.40	11.3	50	23.6	AV	N	GND
16.079367	35.70	11.2	50	14.3	AV	N	GND

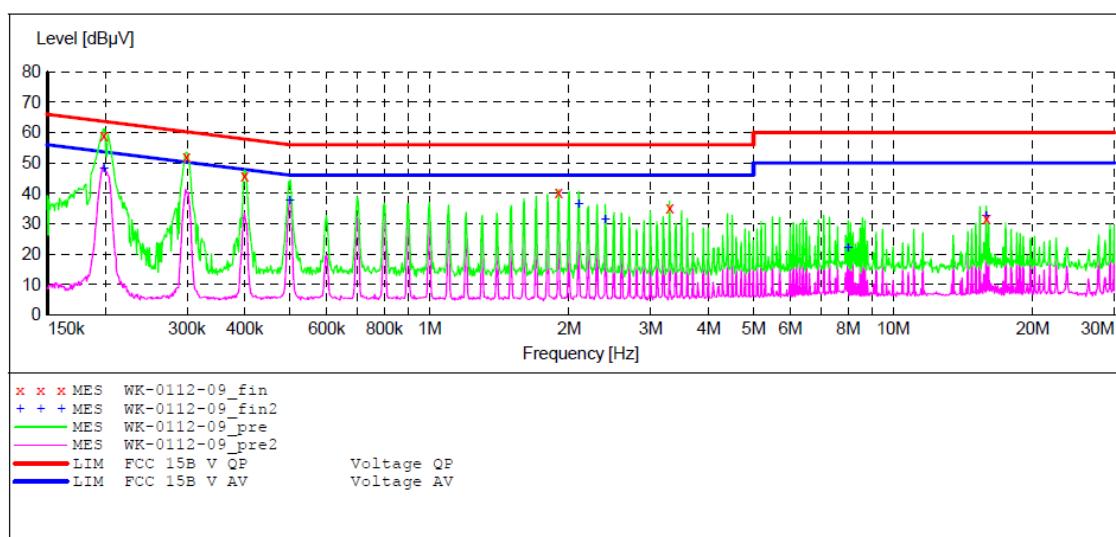
**ACCURATE TECHNOLOGY CO., LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Wimo M/N:wimo wf  
 Manufacturer: Italcom Group  
 Operating Condition: TX Channel 6 (802.11b)  
 Test Site: 1#Shielding Room  
 Operator: Kai  
 Test Specification: L 120V/60Hz  
 Comment: Mains port  
 Report No.: ATE20120041

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: _SUB_STD_VTERM2 1.70					
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Transducer
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz NSLK8126 2008
Average					



**MEASUREMENT RESULT: "WK-0112-09\_fin"**

1/12/2012 9:39AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.198359	59.00	11.2	63.7	4.7	QP	L1	GND
	0.299243	51.80	11.6	60.3	8.5	QP	L1	GND
	0.398888	45.80	11.8	57.9	12.1	QP	L1	GND
	1.899908	40.10	11.7	56	15.9	QP	L1	GND
	3.295983	35.40	11.5	56	20.6	QP	L1	GND
	15.887948	31.60	11.2	60	28.4	QP	L1	GND

**MEASUREMENT RESULT: "WK-0112-09\_fin2"**

1/12/2012 9:39AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.198359	48.30	11.2	53.7	5.4	AV	L1	GND
	0.498814	37.40	12.0	46	8.6	AV	L1	GND
	2.099304	36.20	11.6	46	9.8	AV	L1	GND
	2.394903	31.20	11.6	46	14.8	AV	L1	GND
	7.995934	22.00	11.3	50	28.0	AV	L1	GND
	15.887948	32.50	11.2	50	17.5	AV	L1	GND

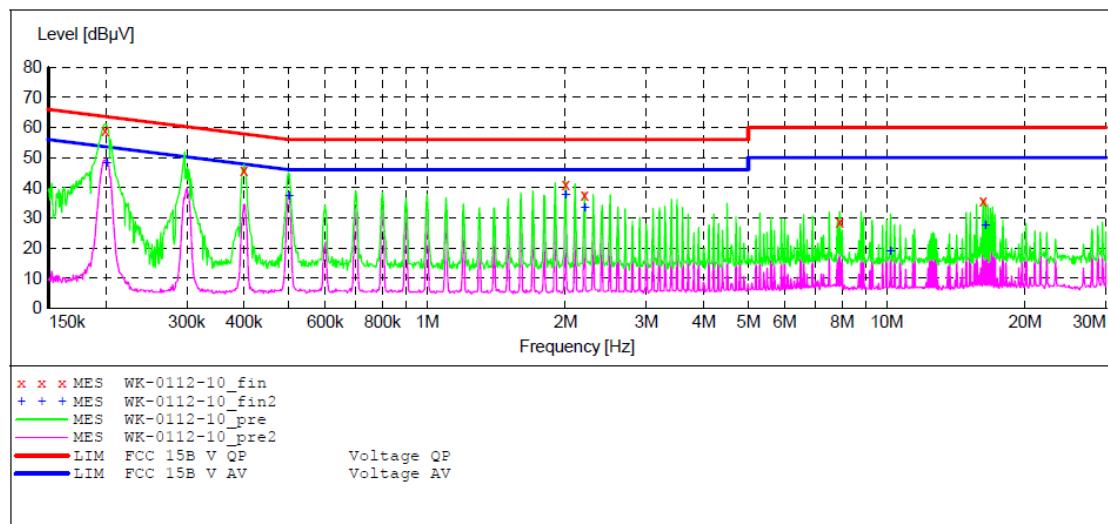
**ACCURATE TECHNOLOGY CO., LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Wimo M/N:wimo wf  
 Manufacturer: Italcrom Group  
 Operating Condition: TX Channel 6 (802.11g)  
 Test Site: 1#Shielding Room  
 Operator: Kai  
 Test Specification: L 120V/60Hz  
 Comment: Mains port  
 Report No.:ATE20120041

**SCAN TABLE: "V 150K-30MHz fin"**

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
						Average



**MEASUREMENT RESULT: "WK-0112-10\_fin"**

1/12/2012 9:42AM							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
0.199152	58.90	11.2	63.6	4.7	QP	L1	GND
0.398888	45.60	11.8	57.9	12.3	QP	L1	GND
2.001110	41.10	11.7	56	14.9	QP	L1	GND
2.202318	37.40	11.6	56	18.6	QP	L1	GND
7.900746	28.70	11.3	60	31.3	QP	L1	GND
16.208260	35.70	11.2	60	24.3	QP	L1	GND

**MEASUREMENT RESULT: "WK-0112-10\_fin2"**

1/12/2012 9:42AM							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
0.200748	48.10	11.2	53.6	5.5	AV	L1	GND
0.500809	37.30	12.0	46	8.7	AV	L1	GND
2.001110	37.40	11.7	46	8.6	AV	L1	GND
2.202318	33.30	11.6	46	12.7	AV	L1	GND
10.200600	18.80	11.3	50	31.2	AV	L1	GND
16.403538	27.30	11.1	50	22.7	AV	L1	GND

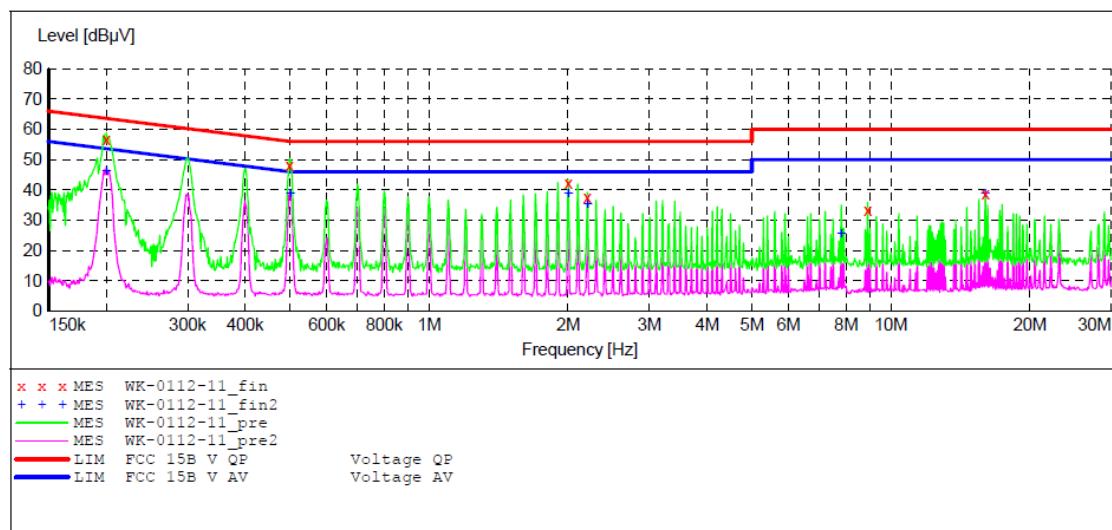
**ACCURATE TECHNOLOGY CO., LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Wimo M/N:wimo wf  
 Manufacturer: Italcom Group  
 Operating Condition: TX Channel 6 (802.11g)  
 Test Site: 1#Shielding Room  
 Operator: Kai  
 Test Specification: N 120V/60Hz  
 Comment: Mains port  
 Report No.:ATE20120041

**SCAN TABLE: "V 150K-30MHz fin"**

Short Description: _SUB_STD_VTERM2 1.70					
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Transducer
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz NSLK8126 2008 Average



**MEASUREMENT RESULT: "WK-0112-11\_fin"**

1/12/2012 9:45AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.199949	56.70	11.2	63.6	6.9	QP	N	GND
	0.498814	48.30	12.0	56	7.7	QP	N	GND
	2.001110	42.10	11.7	56	13.9	QP	N	GND
	2.202318	37.70	11.6	56	18.3	QP	N	GND
	8.905934	33.30	11.3	60	26.7	QP	N	GND
	16.015306	38.80	11.2	60	21.2	QP	N	GND

**MEASUREMENT RESULT: "WK-0112-11\_fin2"**

1/12/2012 9:45AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.199949	46.00	11.2	53.6	7.6	AV	N	GND
	0.500809	38.90	12.0	46	7.1	AV	N	GND
	2.001110	38.80	11.7	46	7.2	AV	N	GND
	2.202318	35.10	11.6	46	10.9	AV	N	GND
	7.806690	25.40	11.3	50	24.6	AV	N	GND
	16.015306	38.90	11.2	50	11.1	AV	N	GND

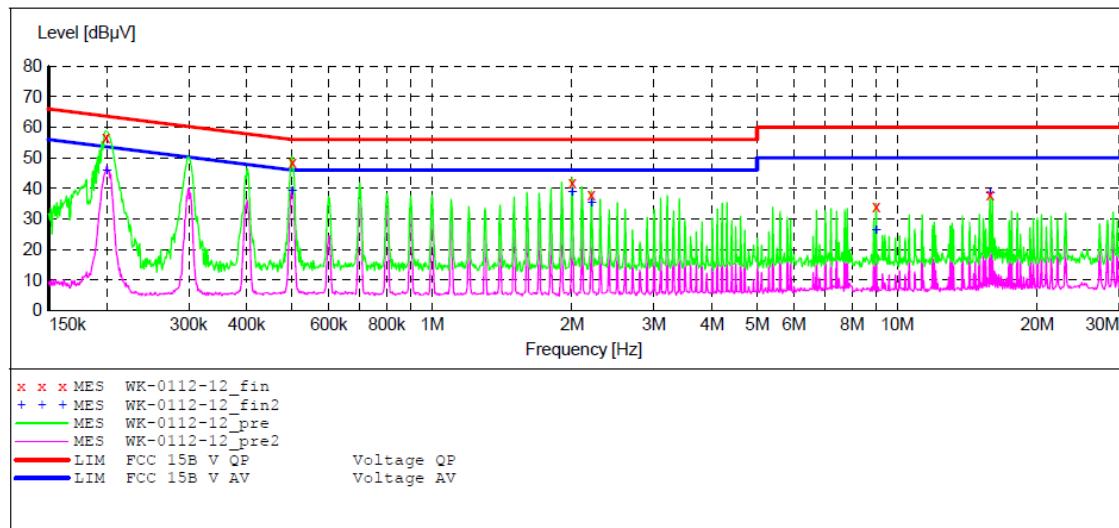
**ACCURATE TECHNOLOGY CO., LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Wimo M/N:wimo wf  
 Manufacturer: Italcom Group  
 Operating Condition: TX Channel 6 (802.11n)  
 Test Site: 1#Shielding Room  
 Operator: Kai  
 Test Specification: N 120V/60Hz  
 Comment: Mains port  
 Report No.: ATE20120041

**SCAN TABLE: "V 150K-30MHz fin"**

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
Average						



**MEASUREMENT RESULT: "WK-0112-12\_fin"**

1/12/2012 9:47AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.199152	56.70	11.2	63.6	6.9	QP	N	GND
	0.500809	48.40	12.0	56	7.6	QP	N	GND
	2.001110	42.00	11.7	56	14.0	QP	N	GND
	2.202318	37.90	11.6	56	18.1	QP	N	GND
	9.013233	34.00	11.3	60	26.0	QP	N	GND
	15.824650	37.80	11.2	60	22.2	QP	N	GND

**MEASUREMENT RESULT: "WK-0112-12\_fin2"**

1/12/2012 9:47AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.199949	45.80	11.2	53.6	7.8	AV	N	GND
	0.500809	39.00	12.0	46	7.0	AV	N	GND
	2.001110	38.60	11.7	46	7.4	AV	N	GND
	2.202318	35.20	11.6	46	10.8	AV	N	GND
	9.013233	26.20	11.3	50	23.8	AV	N	GND
	15.824650	38.40	11.2	50	11.6	AV	N	GND

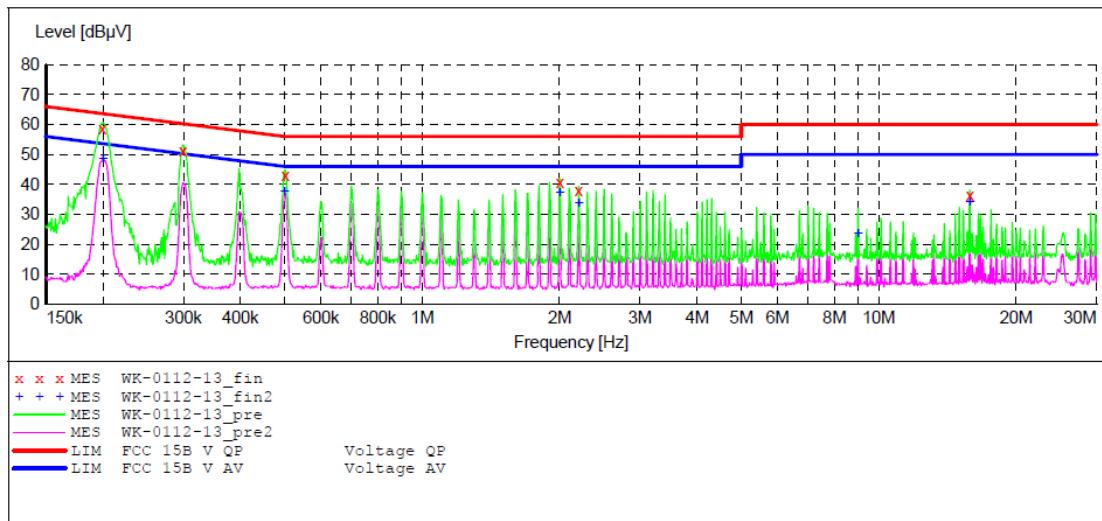
**ACCURATE TECHNOLOGY CO., LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: Wimo M/N:wimo wf  
 Manufacturer: Italcom Group  
 Operating Condition: TX Channel 6 (802.11n)  
 Test Site: 1#Shielding Room  
 Operator: Kai  
 Test Specification: L 120V/60Hz  
 Comment: Mains port  
 Report No.: ATE20120041

**SCAN TABLE: "V 150K-30MHz fin"**

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer Bandw.
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008 Average



**MEASUREMENT RESULT: "WK-0112-13\_fin"**

1/12/2012 9:50AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.199152	58.60	11.2	63.6	5.0	QP	L1	GND
	0.299243	51.30	11.6	60.3	9.0	QP	L1	GND
	0.500809	42.90	12.0	56	13.1	QP	L1	GND
	2.001110	40.60	11.7	56	15.4	QP	L1	GND
	2.202318	38.00	11.6	56	18.0	QP	L1	GND
	15.824650	36.50	11.2	60	23.5	QP	L1	GND

**MEASUREMENT RESULT: "WK-0112-13\_fin2"**

1/12/2012 9:50AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB $\mu$ V	dB	dB $\mu$ V	dB			
	0.199949	48.50	11.2	53.6	5.1	AV	L1	GND
	0.498814	37.40	12.0	46	8.6	AV	L1	GND
	2.001110	37.20	11.7	46	8.8	AV	L1	GND
	2.202318	33.80	11.6	46	12.2	AV	L1	GND
	9.013233	23.60	11.3	50	26.4	AV	L1	GND
	15.824650	34.10	11.2	50	15.9	AV	L1	GND

## 12. ANTENNA REQUIREMENT

### 12.1. The Requirement

According to Section 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.

### 12.2. Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.

