APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
Shenzhen Leader Digital-tech Weitong Co., Ltd.

MID
Model No.: GA2X

FCC ID: ZDYGA2X

Prepared for	:	Shenzhen Leader Digital-tech Weitong Co., Ltd.
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Report Number	:	ATE20120037
Date of Test	:	February 1-7, 2012
Date of Report	:	February 9, 2012

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Test Report Certification

Applicant **:** Shenzhen Leader Digital-tech Weitong Co., Ltd.

Manufacturer **:** Shenzhen Leader Digital-tech Weitong Co., Ltd.

EUT Description **:** MID

(A) MODEL NO.: GA2X

(B) SERIAL NO.: N/A

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

Measurement Procedure Used:

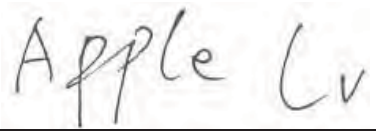
FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.4: 2003

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 : February 1-7, 2012

Prepared by :



(Engineer)

Approved & Authorized Signer :

(Manager)

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

EUT	:	MID
Model Number	:	GA2X (Note: X=1-9 These samples are same except for the appearance is difference. So we prepare the GA20 for FCC test.)
Frequency Band	:	2412-2462MHz
Number of Channels	:	11
Antenna Gain	:	0dBi
Power Supply	:	DC 3.7V (Li-polymer battery); AC 120V/60Hz (Adaptor input)
Adapter	:	Model number: F12W-050200SPAU Input: AC 100-240V; 50/60Hz 0.3A Output: DC 5V; 2A Output line: Non-shielded, Non-detachable, 1.5m with a ferrite core
Data Rate	:	IEEE 802.11b: 11Mbps IEEE 802.11g: 54Mbps IEEE 802.11n: 150Mbps
Applicant	:	Shenzhen Leader Digital-tech Weitong Co., Ltd.
Address	:	4 Floor, Dongjiang Environmental Building, Central, Nanshan District, Shenzhen, China
Manufacturer	:	Shenzhen Leader Digital-tech Weitong Co., Ltd.
Address	:	4 Floor, Dongjiang Environmental Building, Central, Nanshan District, Shenzhen, China
Date of sample received	:	January 9, 2012
Date of Test	:	February 1-7, 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 (9kHz-30MHz)	=	3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	=	4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	=	4.06dB, k=2

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. 7, 2013
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 7, 2013
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 7, 2013
Pre-Amplifier	Rohde&Schwarz	CBLU1183540-01	3791	Jan. 7, 2013
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 7, 2013
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 7, 2013
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 7, 2013
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 7, 2013
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 7, 2013

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

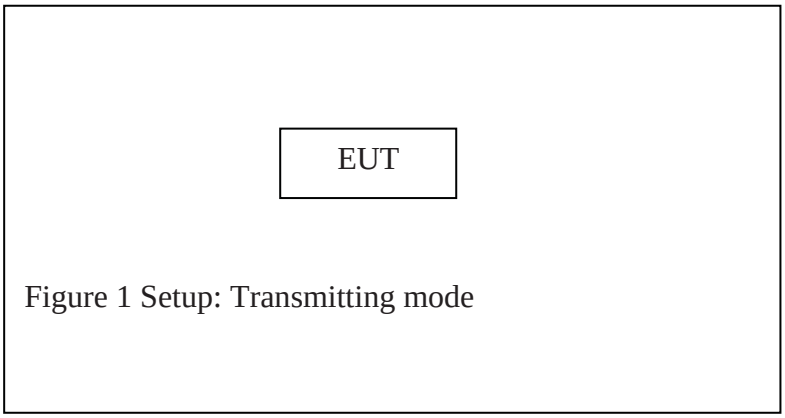


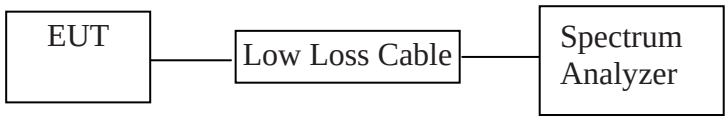
Figure 1 Setup: Transmitting mode

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



(EUT: MID)

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.MID (EUT)

Model Number	:	GA20
Serial Number	:	N/A
Manufacturer	:	Shenzhen Leader Digital-tech Weitong Co., Ltd.

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:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	TX	Test Engineer:	Pei

The test was performed with 802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	11.03	> 0.5MHz
Middle	2437	11.43	> 0.5MHz
High	2462	11.79	> 0.5MHz

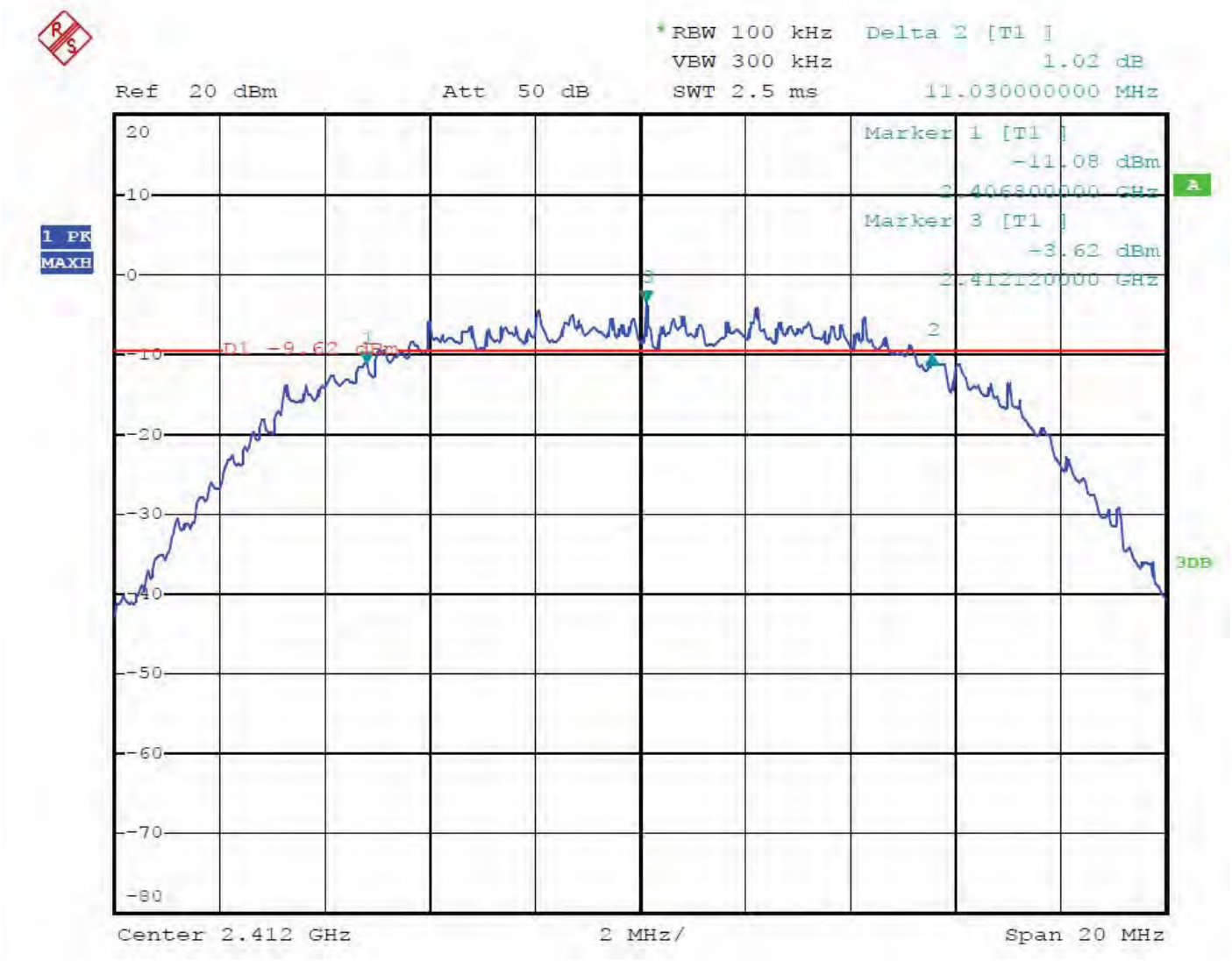
The test was performed with 802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	16.84	> 0.5MHz
Middle	2437	16.26	> 0.5MHz
High	2462	16.74	> 0.5MHz

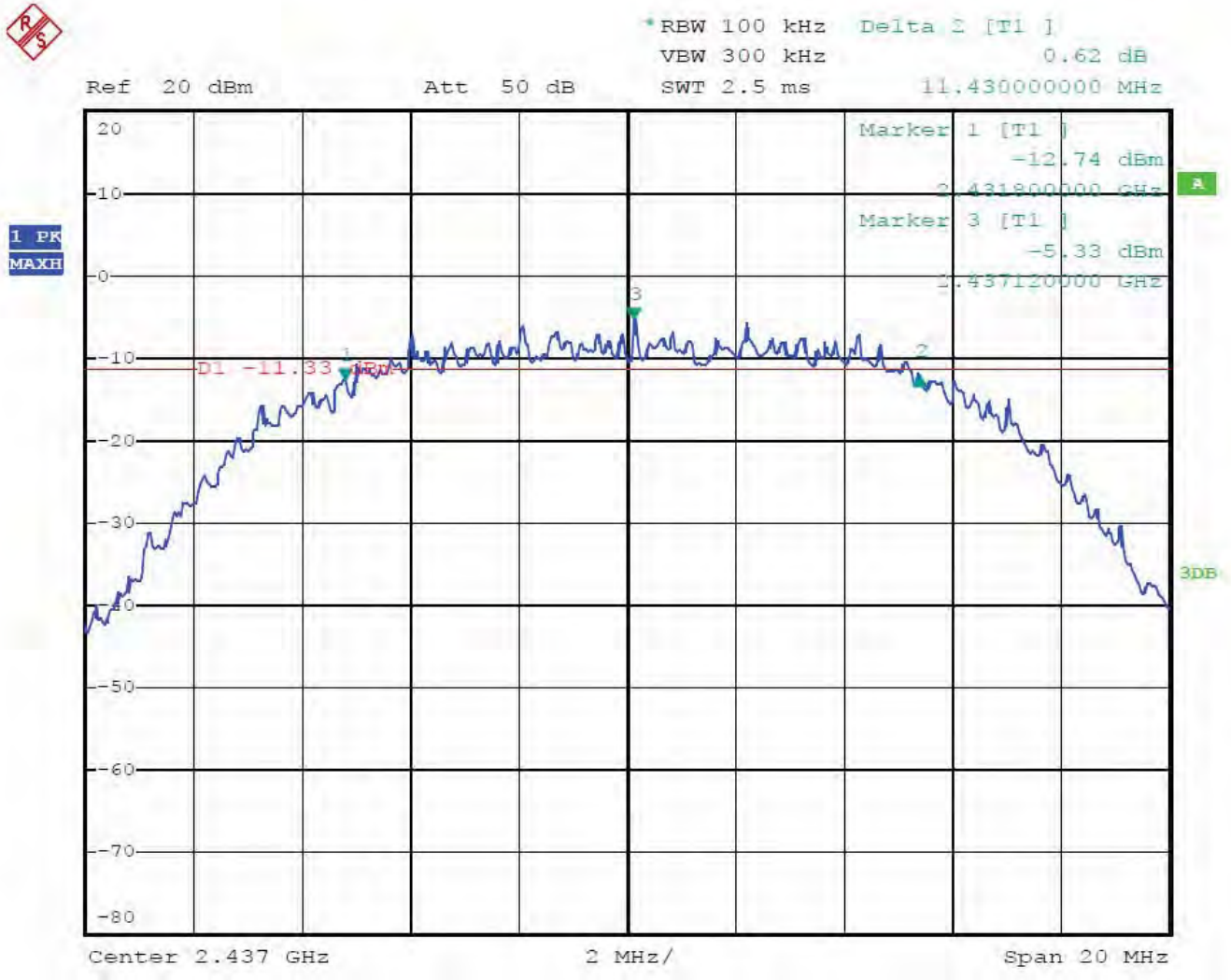
The test was performed with 802.11n			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	17.31	> 0.5MHz
Middle	2437	17.29	> 0.5MHz
High	2462	17.74	> 0.5MHz

The spectrum analyzer plots are attached as below.

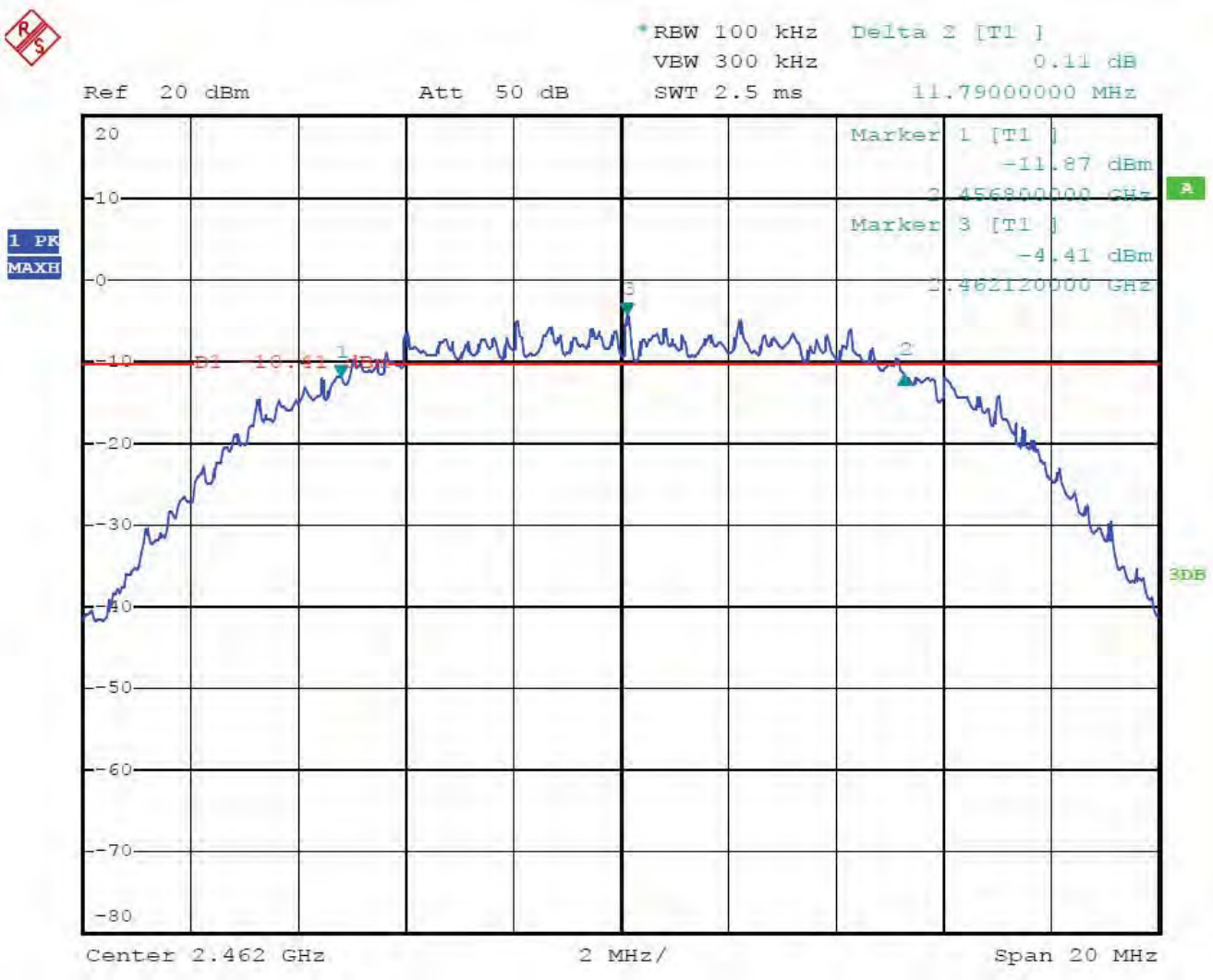
802.11b Channel Low 2412MHz



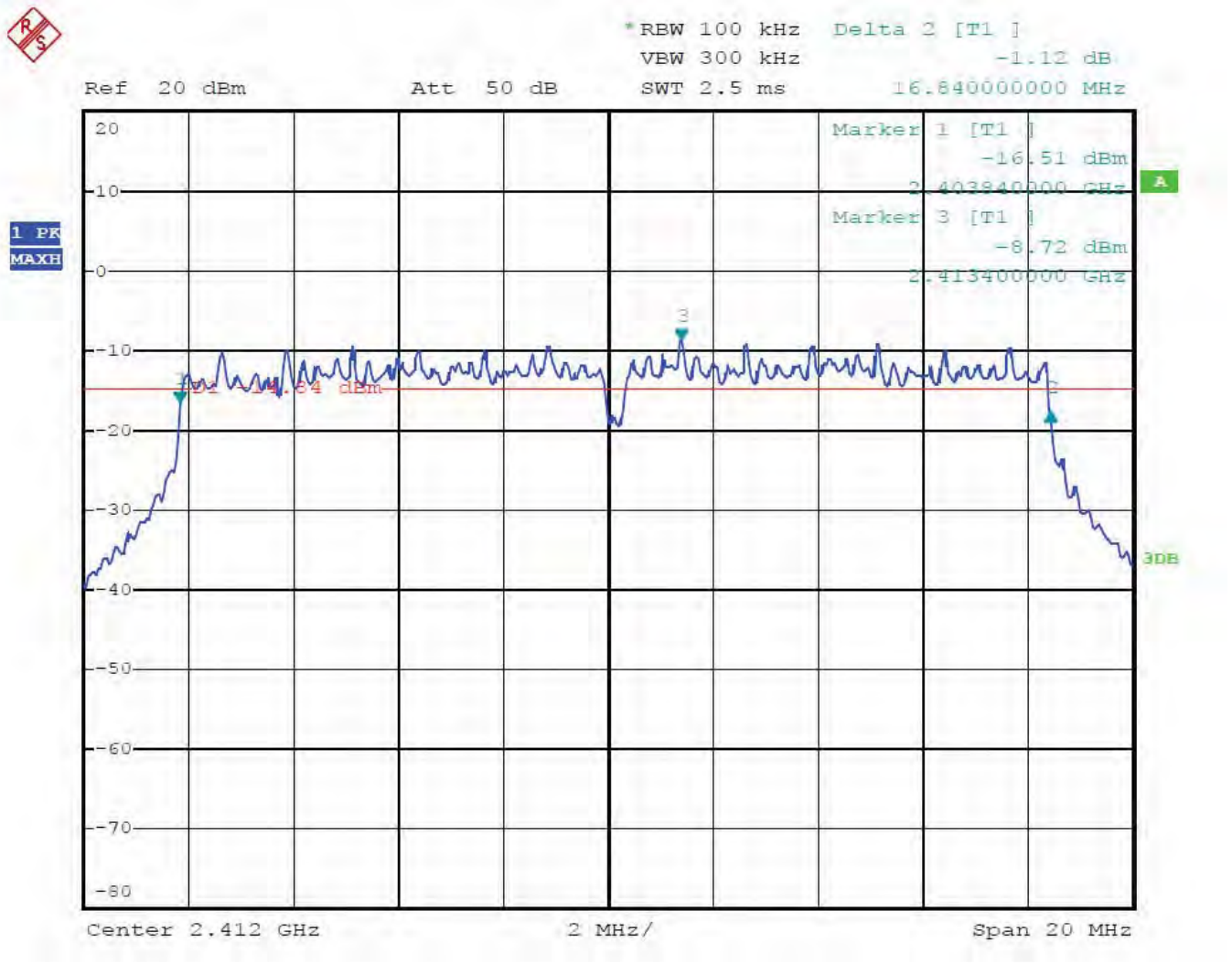
802.11b Channel Middle 2437MHz



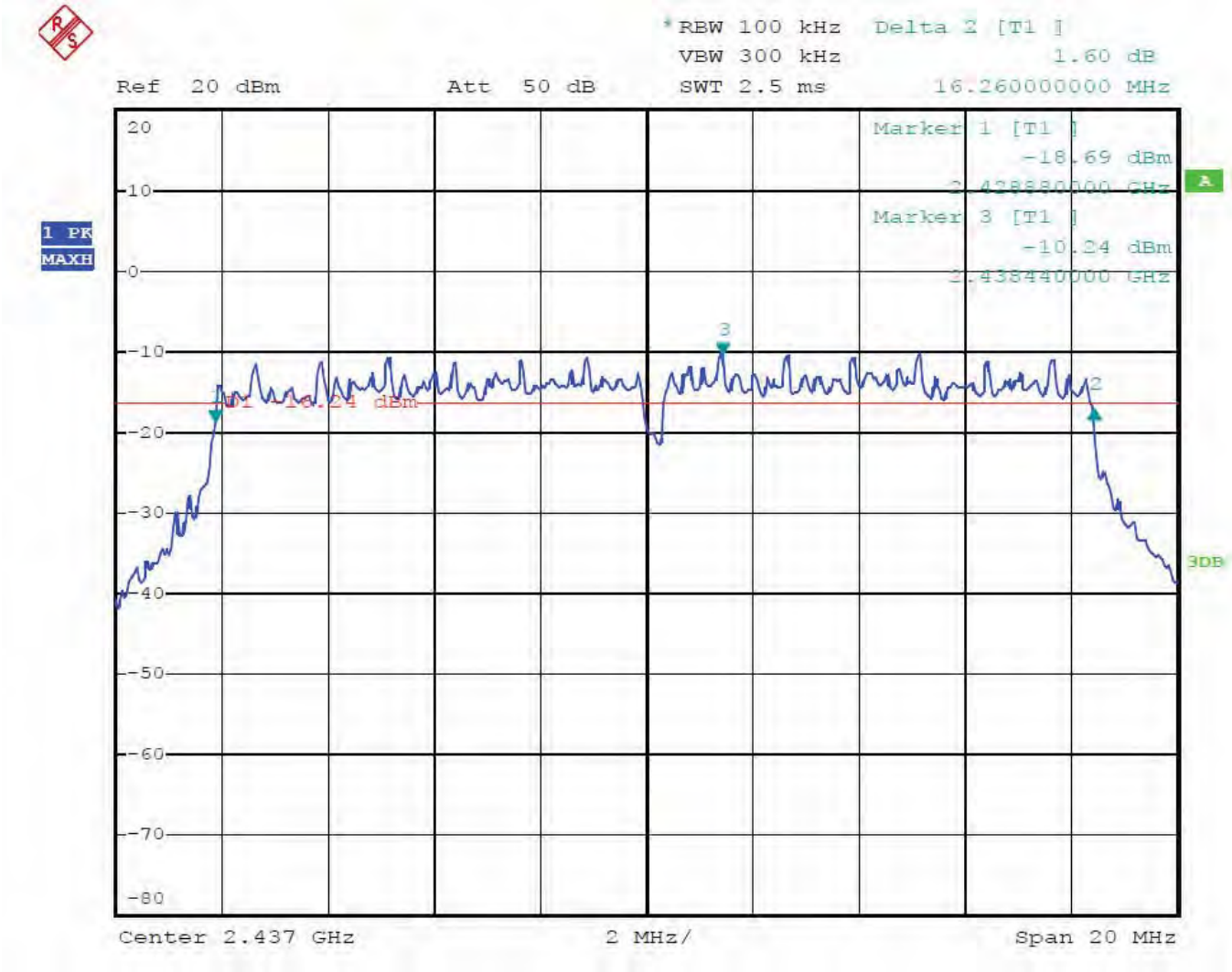
802.11b Channel High 2462MHz



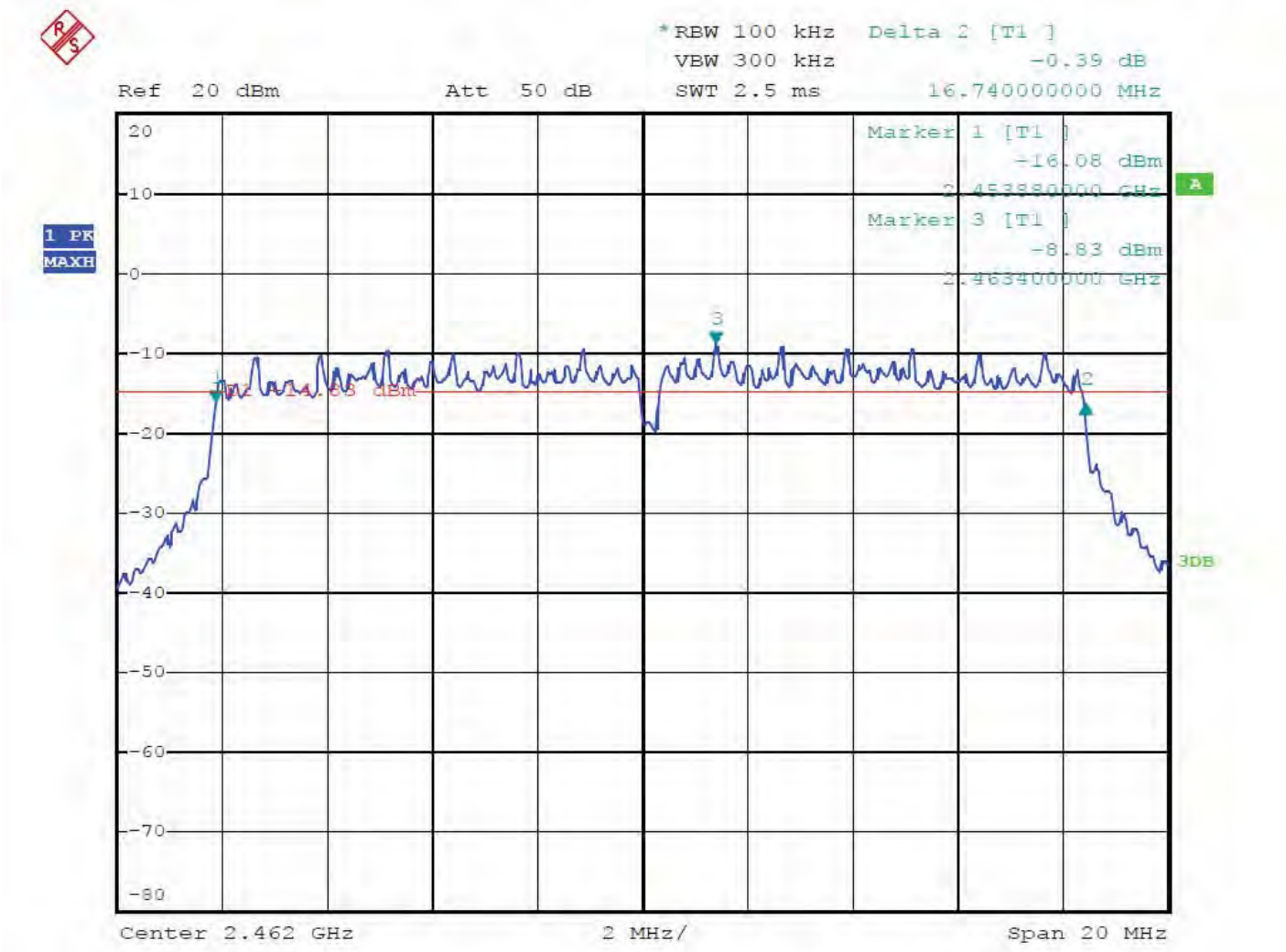
802.11g Channel Low 2412MHz



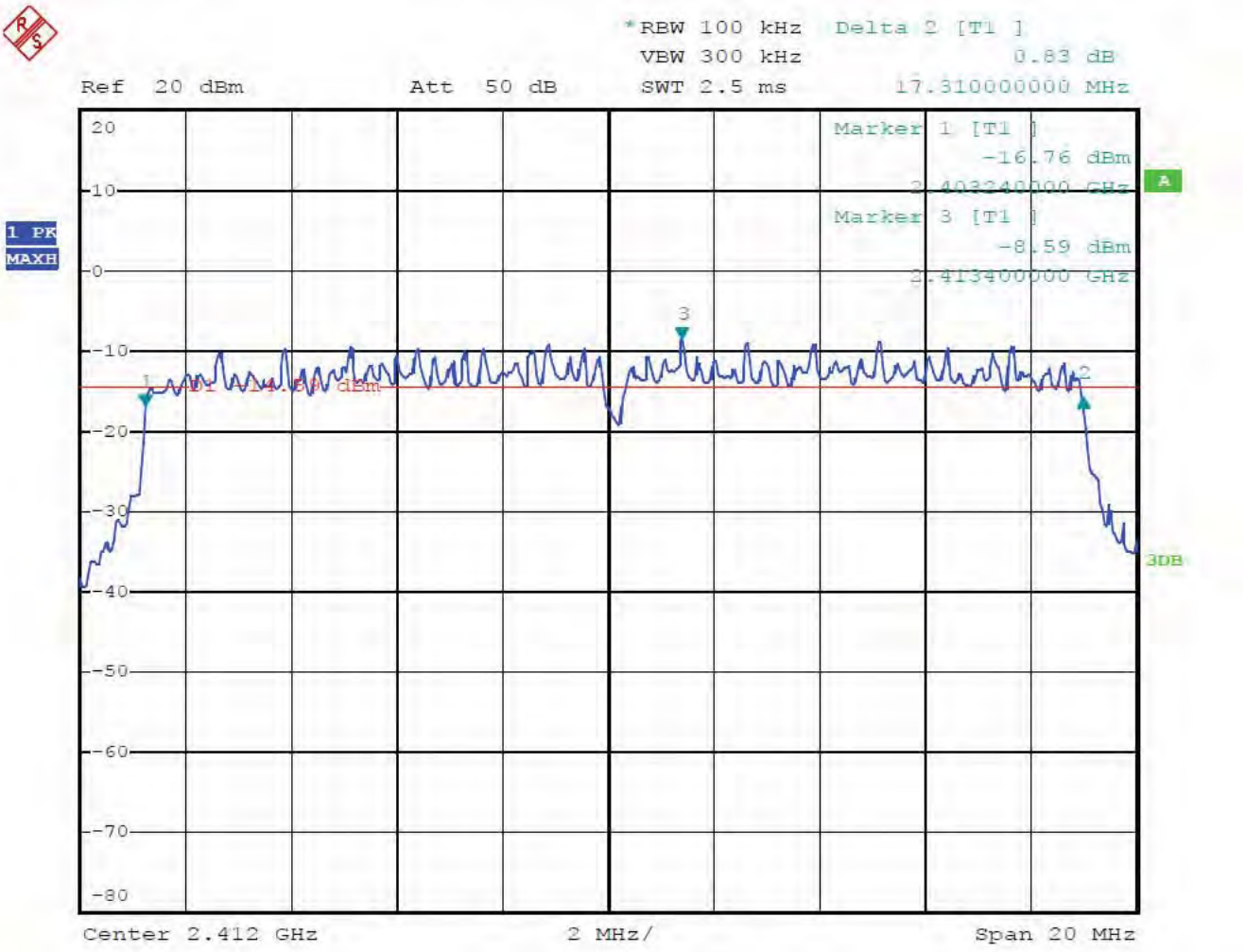
802.11g Channel Middle 2437MHz



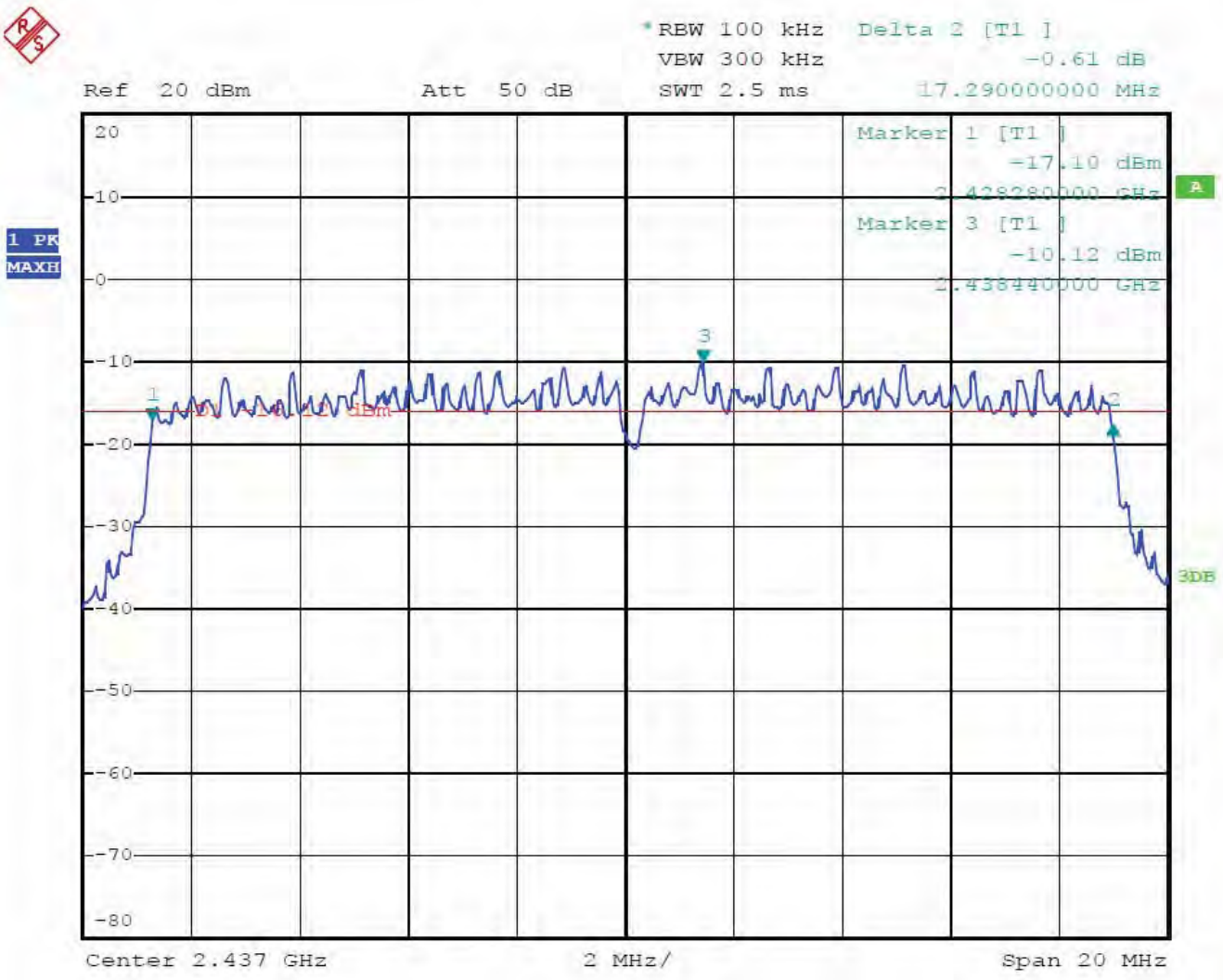
802.11g Channel High 2462MHz



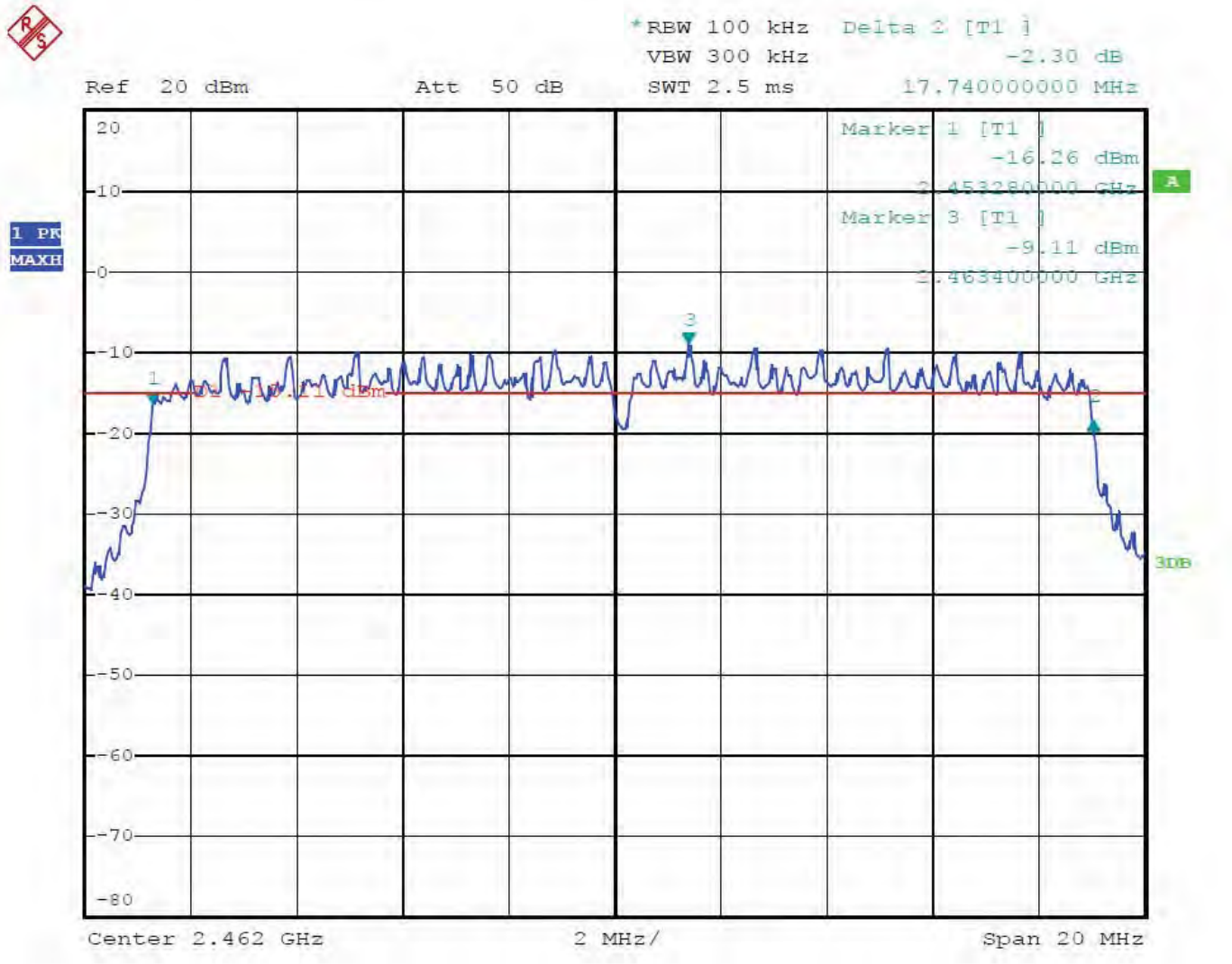
802.11n Channel Low 2412MHz



802.11n Channel Low 2437MHz

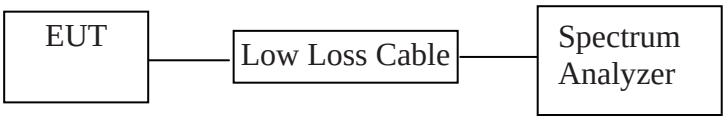


802.11n Channel Low 2462MHz



6. MAXIMUM PEAK OUTPUT POWER

6.1.Block Diagram of Test Setup



(EUT: MID)

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.MID (EUT)

Model Number	:	GA20
Serial Number	:	N/A
Manufacturer	:	Shenzhen Leader Digital-tech Weitong Co., Ltd.

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:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
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	10.92	12.36	30 dBm / 1 W
Middle	2437	9.86	9.68	30 dBm / 1 W
High	2462	10.73	11.83	30 dBm / 1 W

The test was performed with 802.11g

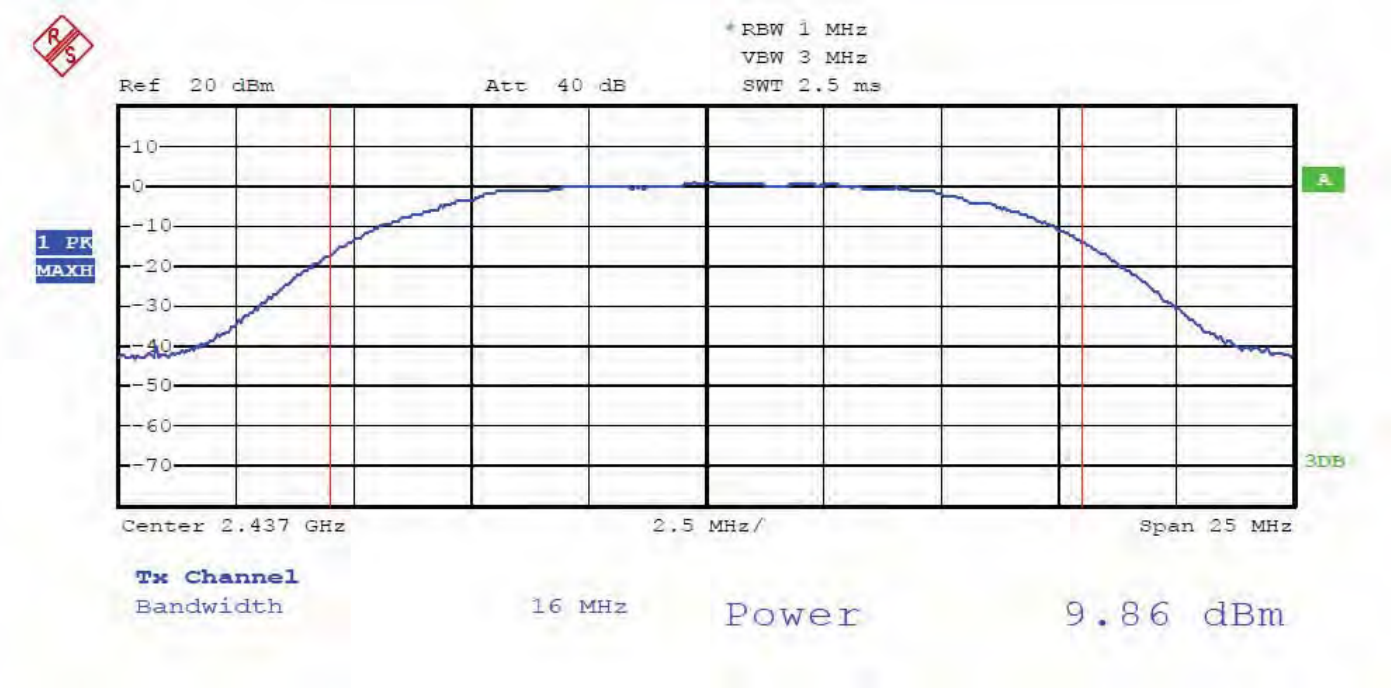
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	10.14	10.33	30 dBm / 1 W
Middle	2437	9.74	9.42	30 dBm / 1 W
High	2462	10.41	10.99	30 dBm / 1 W

The test was performed with 802.11n				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	9.74	9.42	30 dBm / 1 W
Middle	2437	9.59	9.10	30 dBm / 1 W
High	2462	9.70	9.33	30 dBm / 1 W

The spectrum analyzer plots are attached as below.

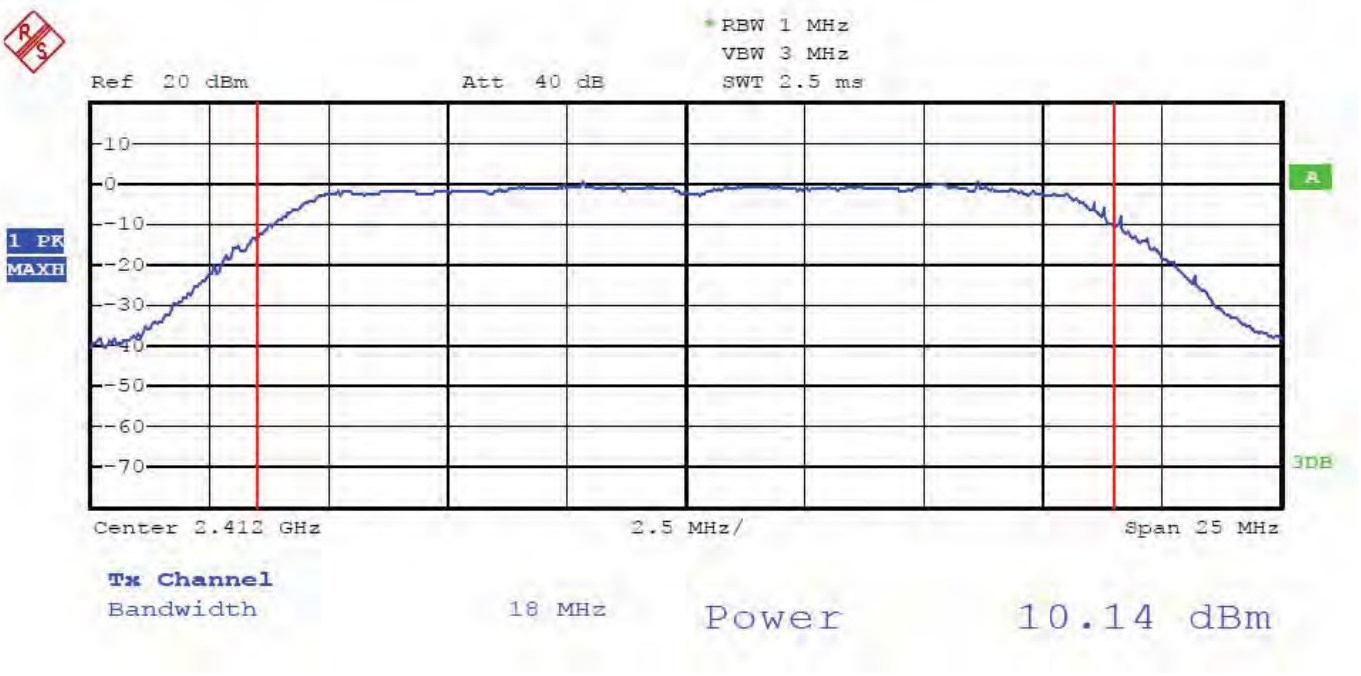
802.11b Channel Low 2412MHz

802.11b Channel Middle 2437MHz



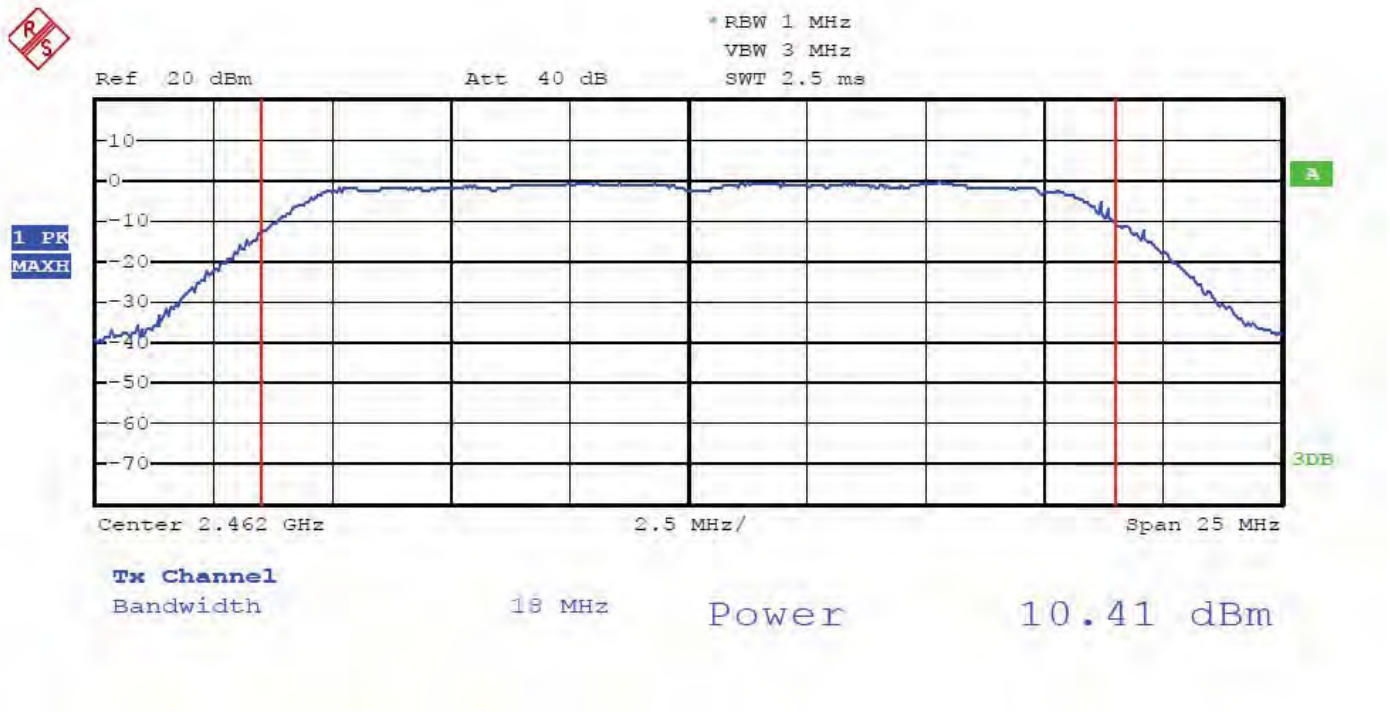
802.11b Channel High 2462MHz

802.11g Channel Low 2412MHz

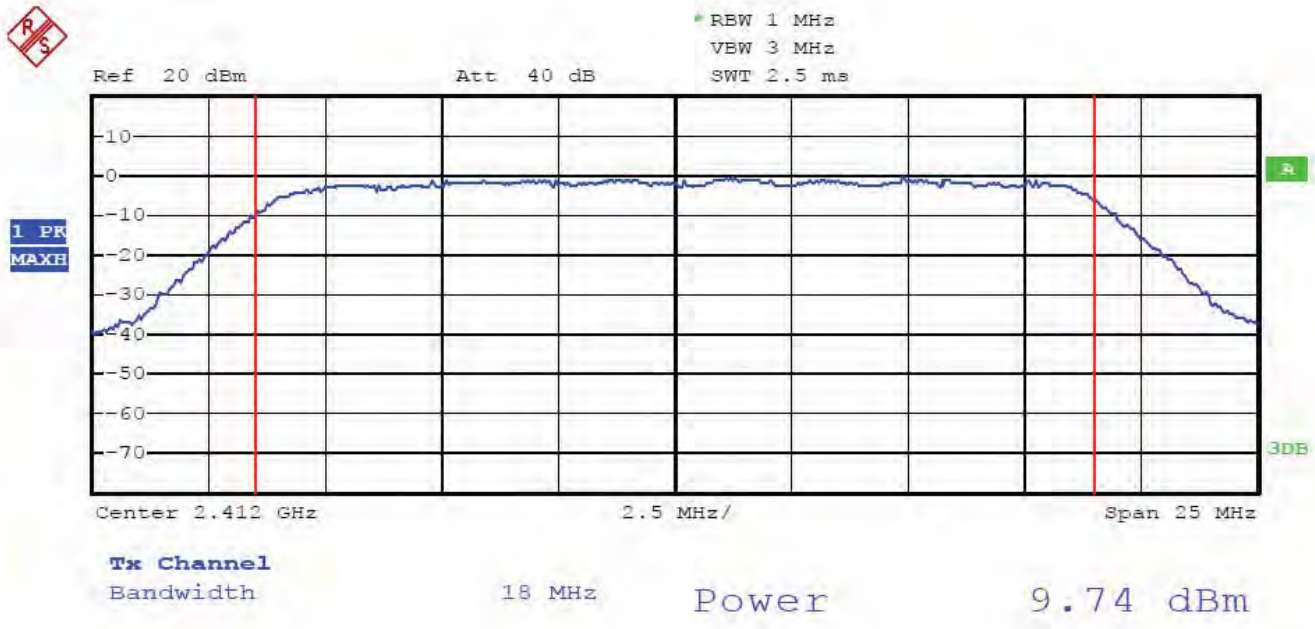


802.11g Channel Middle 2437MHz

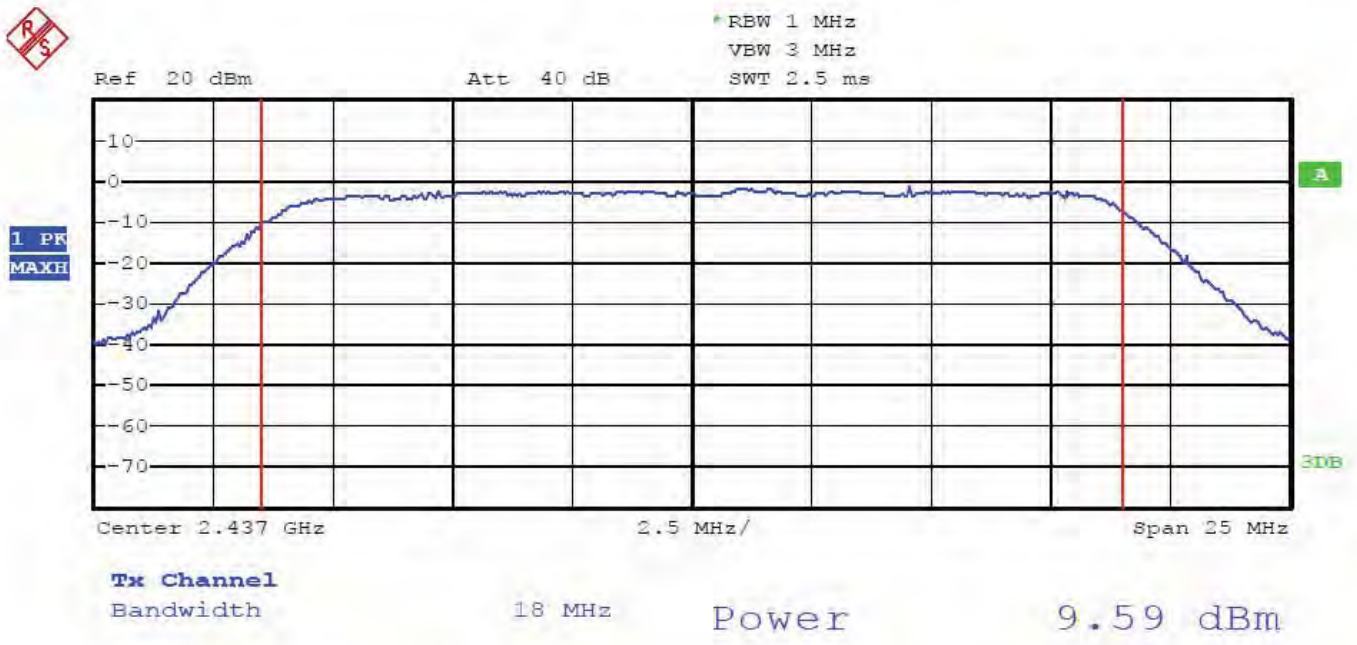
802.11g Channel High 2462MHz



802.11n Channel High 2412MHz



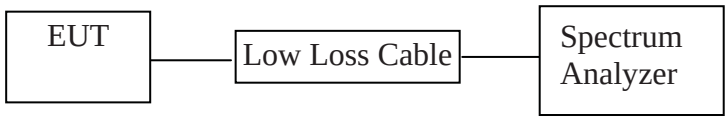
802.11n Channel High 2437MHz



802.11n Channel High 2462MHz

7. POWER SPECTRAL DENSITY MEASUREMENT

7.1.Block Diagram of Test Setup



(EUT: MID)

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.MID (EUT)

Model Number	:	GA20
Serial Number	:	N/A
Manufacturer	:	Shenzhen Leader Digital-tech Weitong Co., Ltd.

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:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	TX	Test Engineer:	Pei

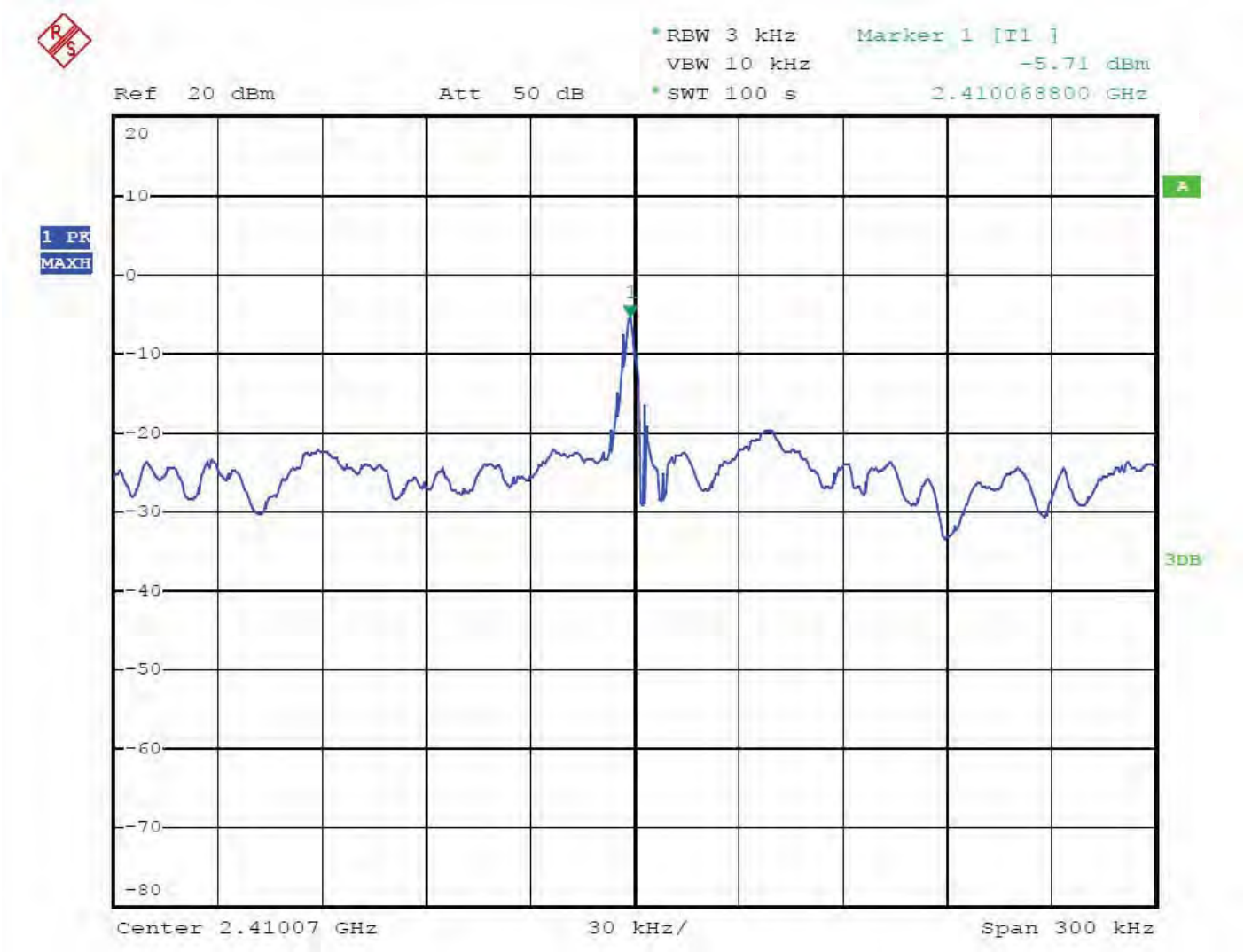
The test was performed with 802.11b			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-5.71	8 dBm
Middle	2437	-6.86	8 dBm
High	2462	-5.42	8 dBm

The test was performed with 802.11g			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-24.43	8 dBm
Middle	2437	-26.63	8 dBm
High	2462	-24.40	8 dBm

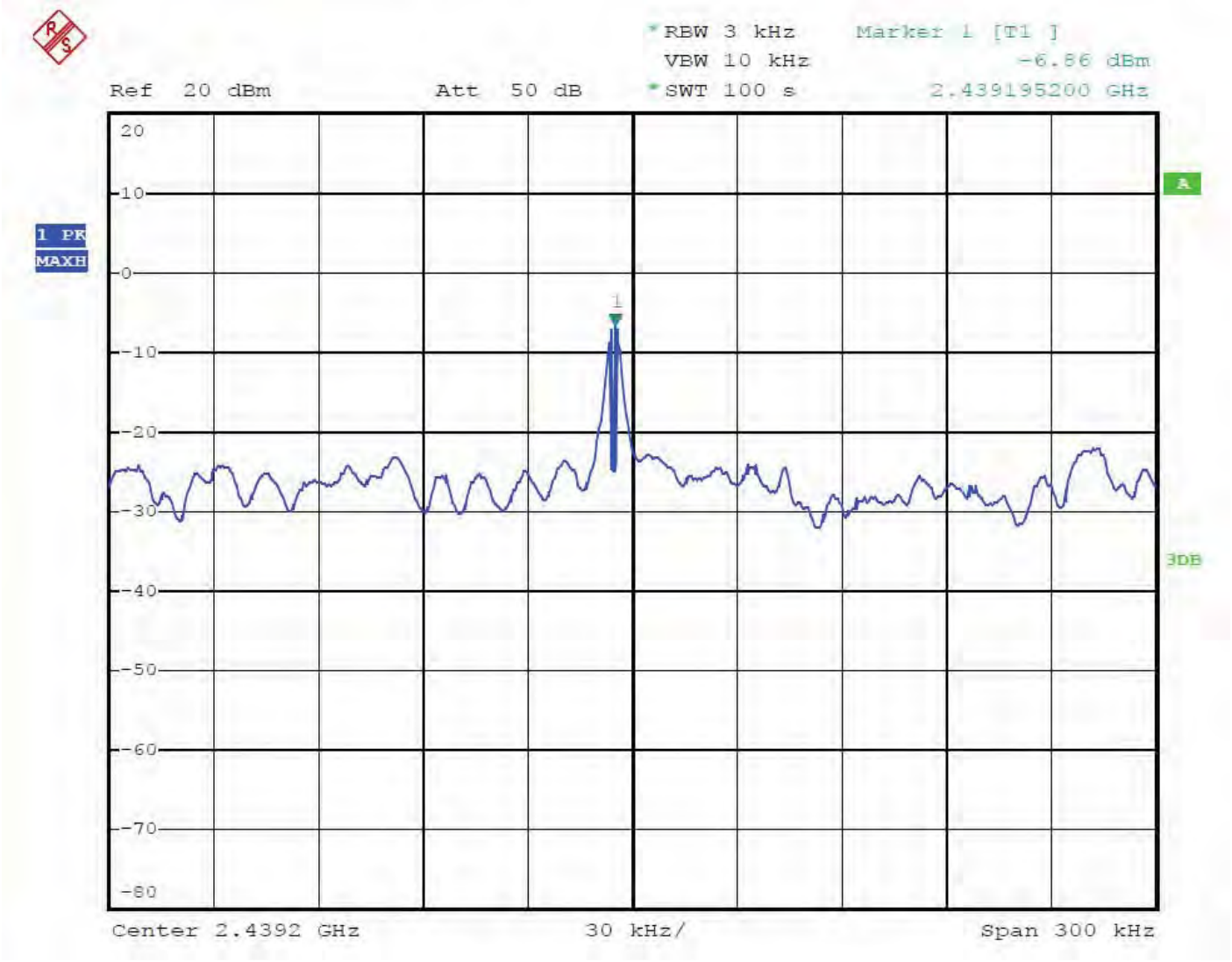
The test was performed with 802.11n			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-24.51	8 dBm
Middle	2437	-26.10	8 dBm
High	2462	-25.11	8 dBm

The spectrum analyzer plots are attached as below.

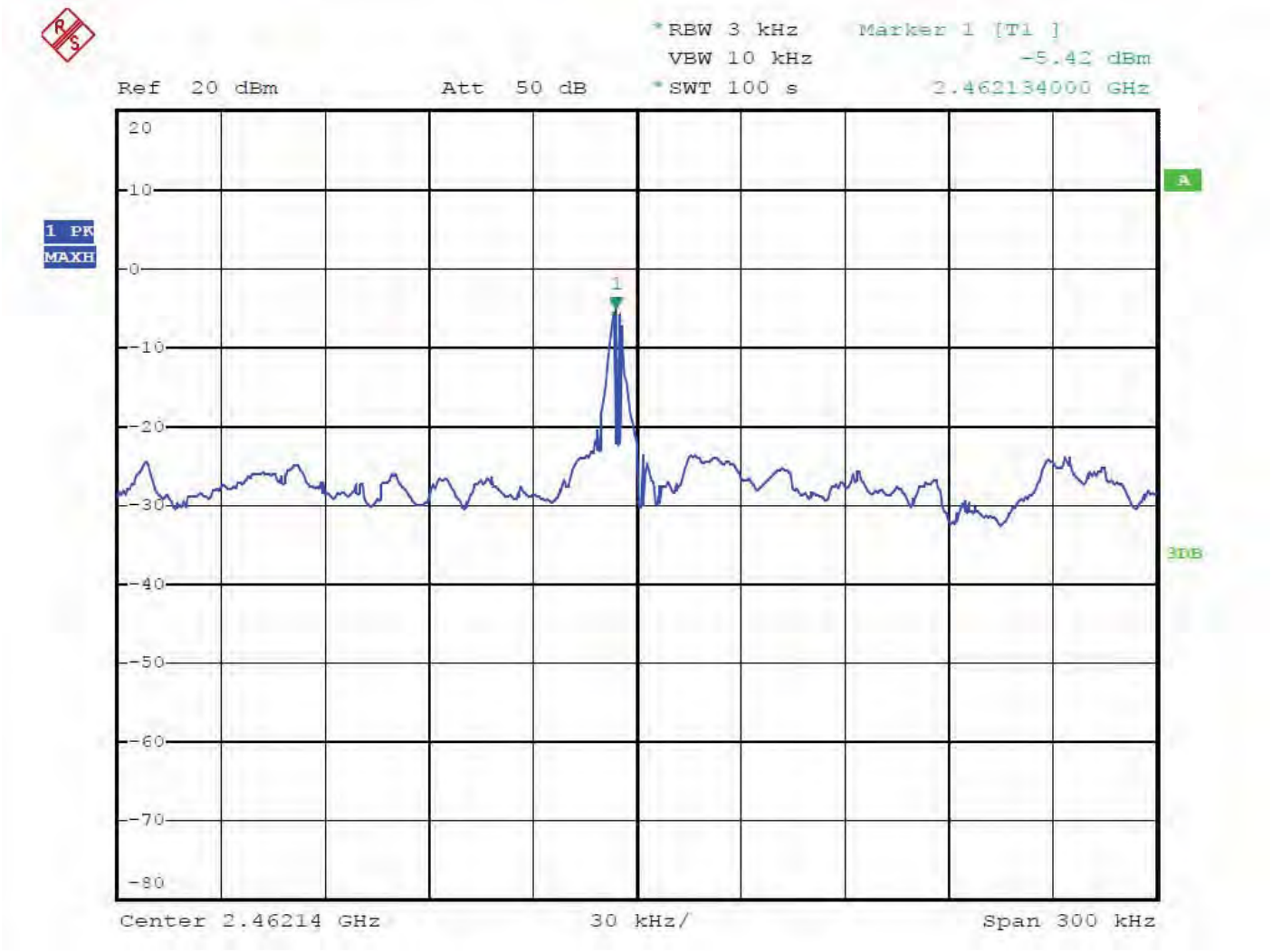
802.11b Channel Low 2412MHz



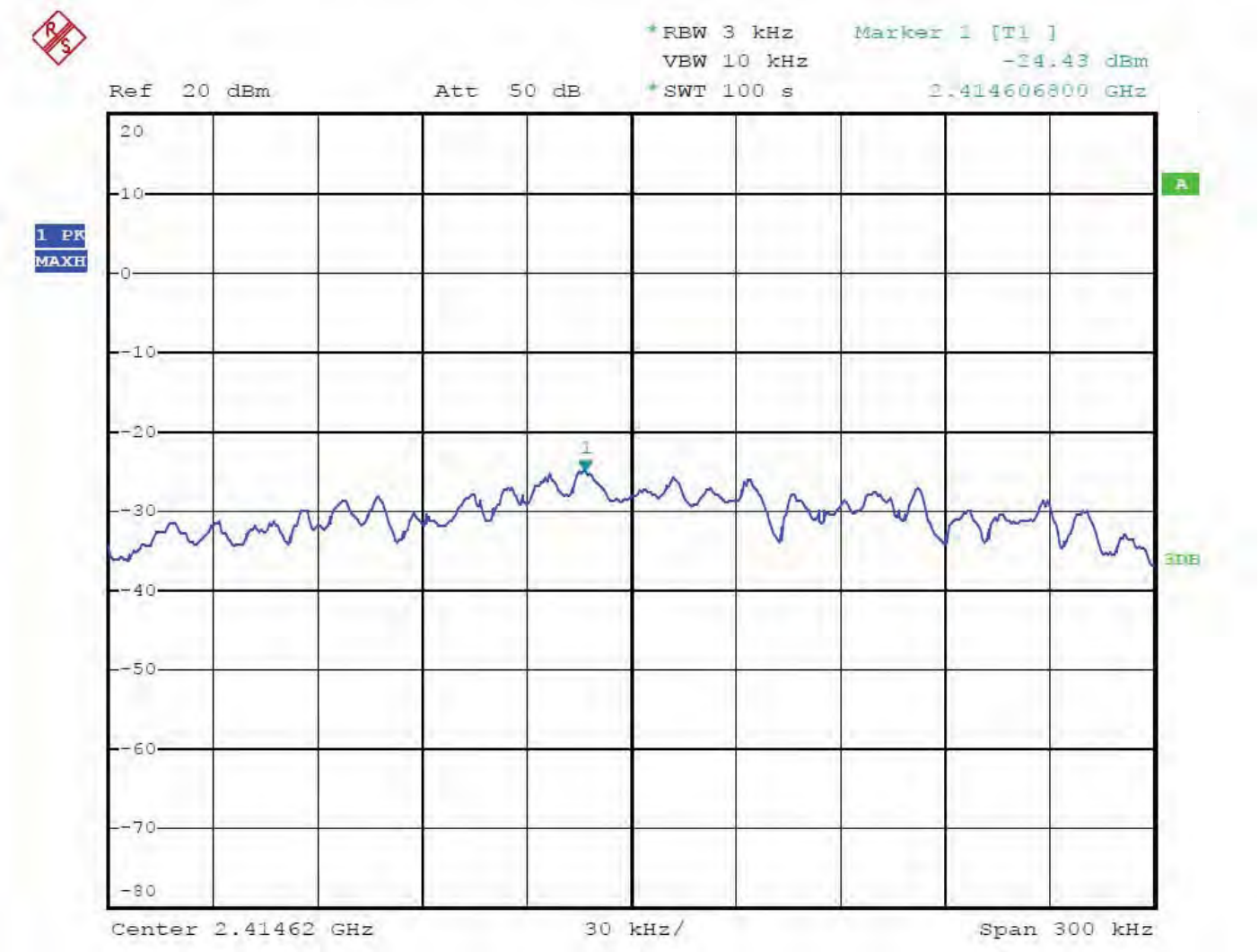
802.11b Channel Middle 2437MHz



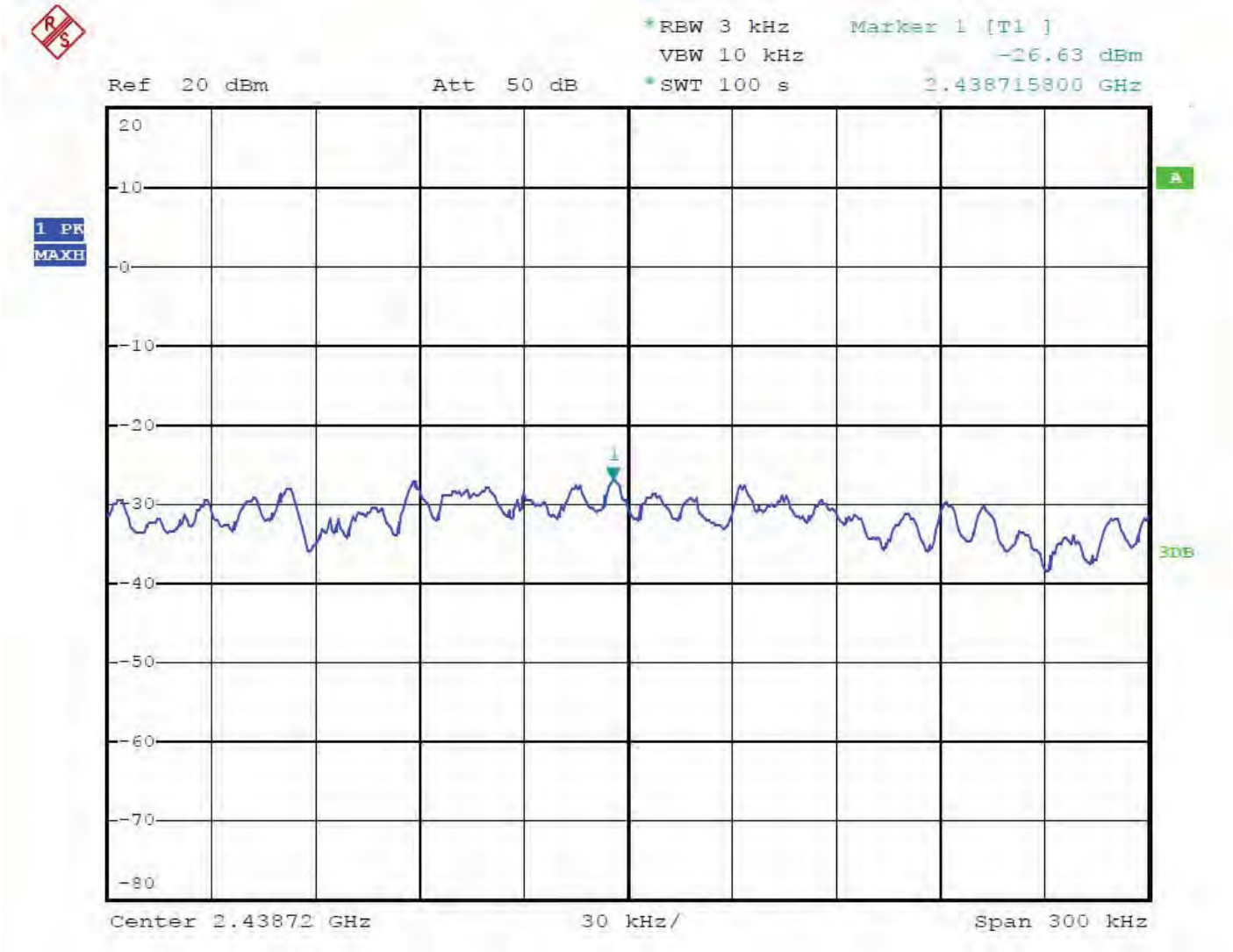
802.11b Channel High 2462MHz



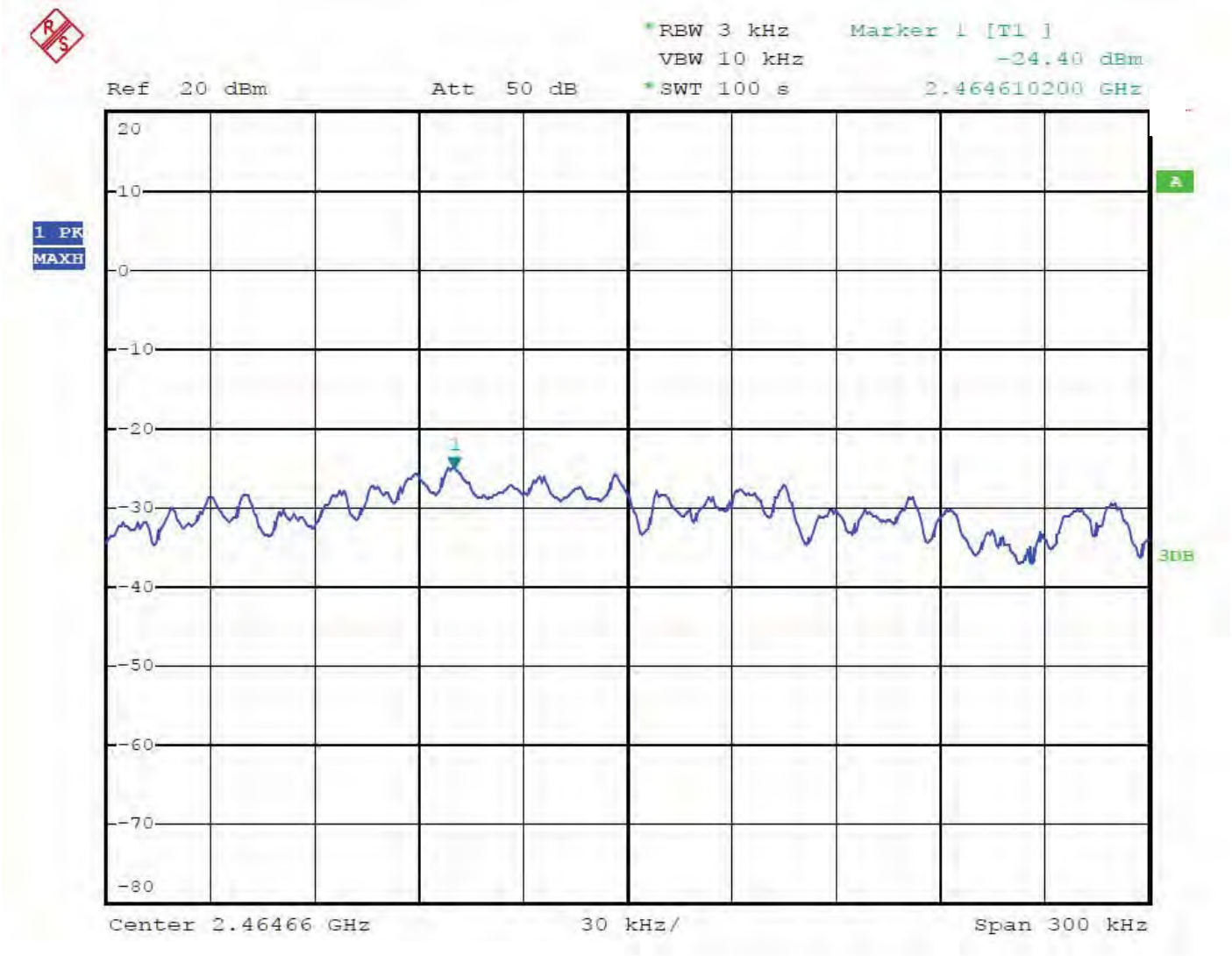
802.11g Channel Low 2412MHz



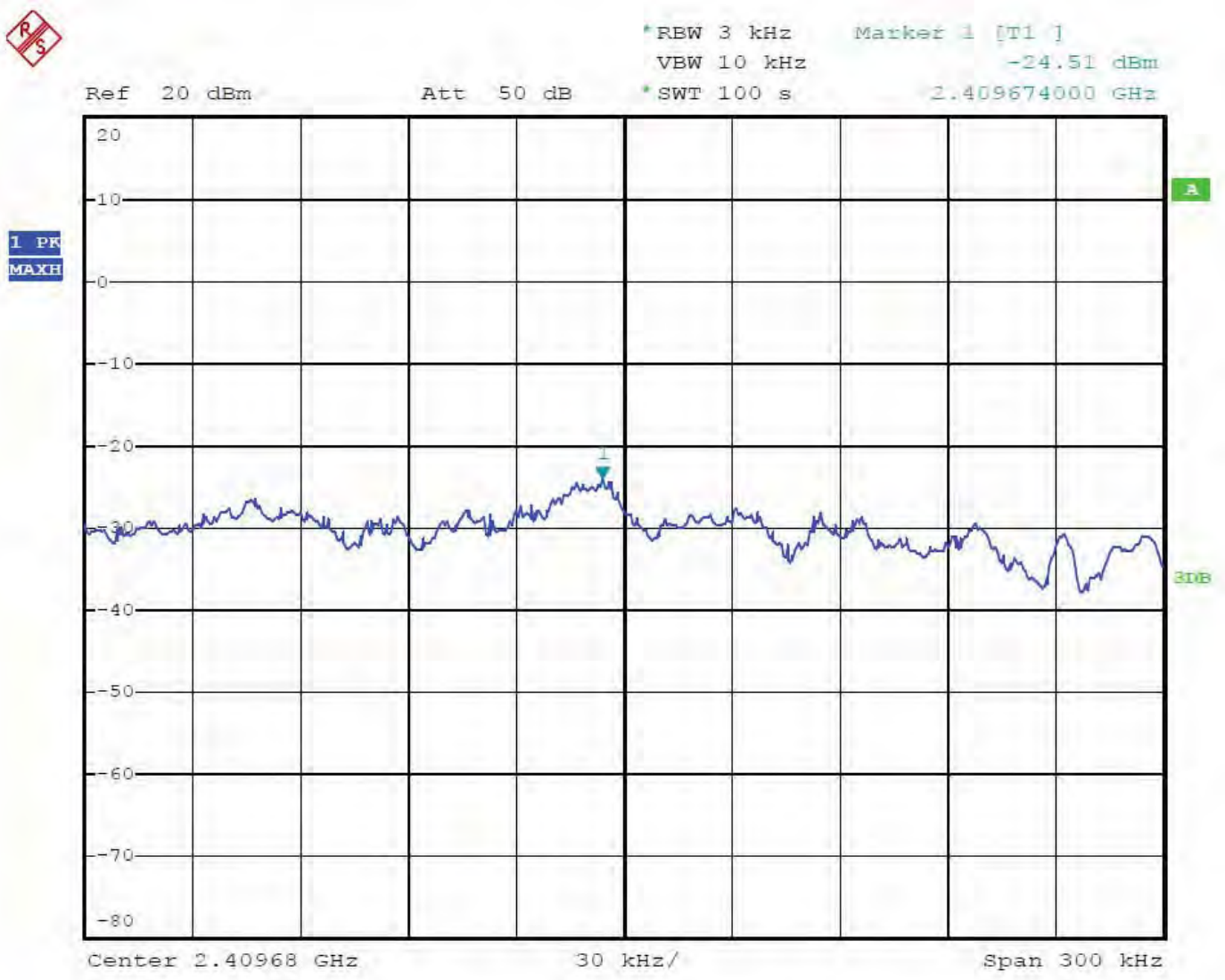
802.11g Channel Middle 2437MHz



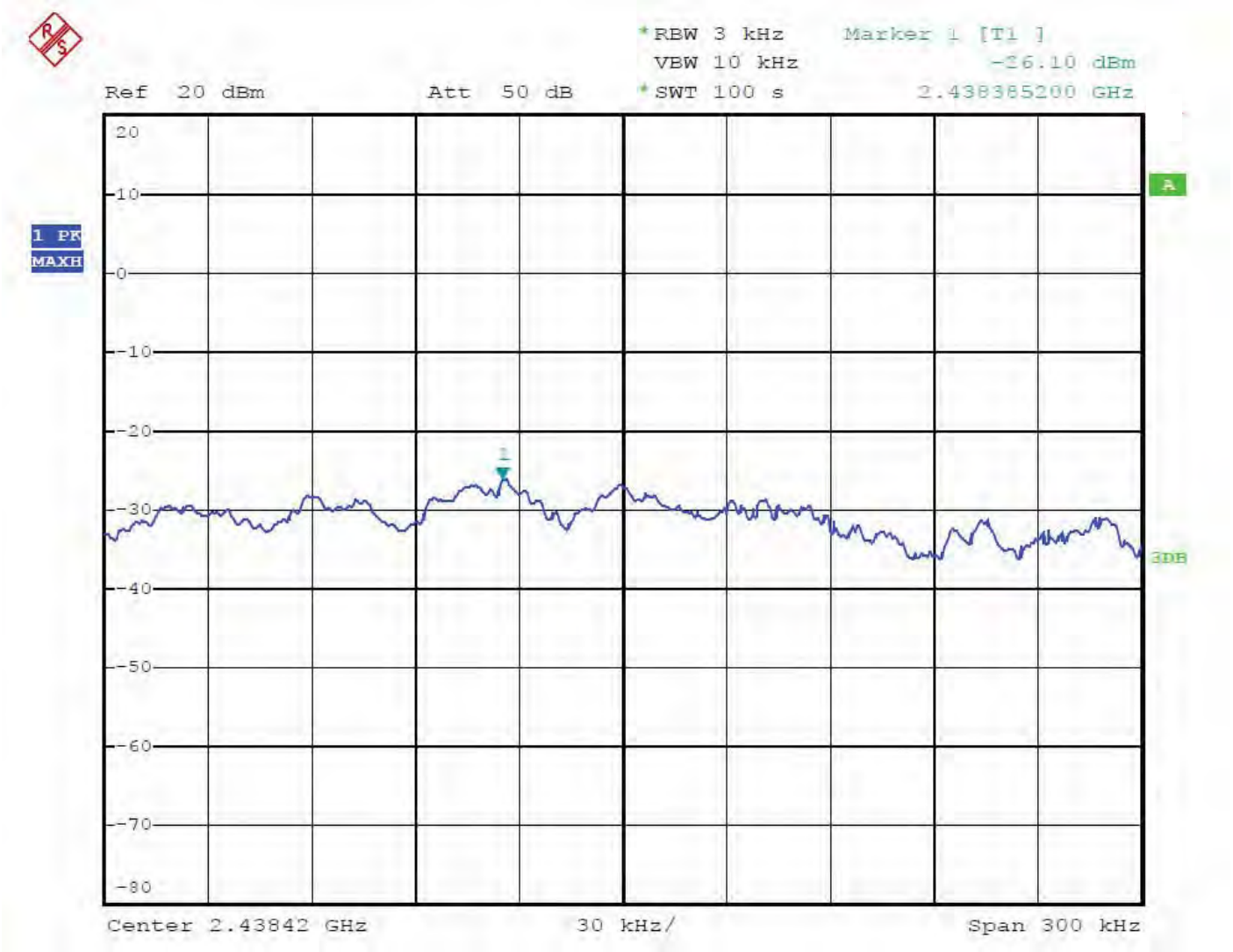
802.11g Channel High 2462MHz



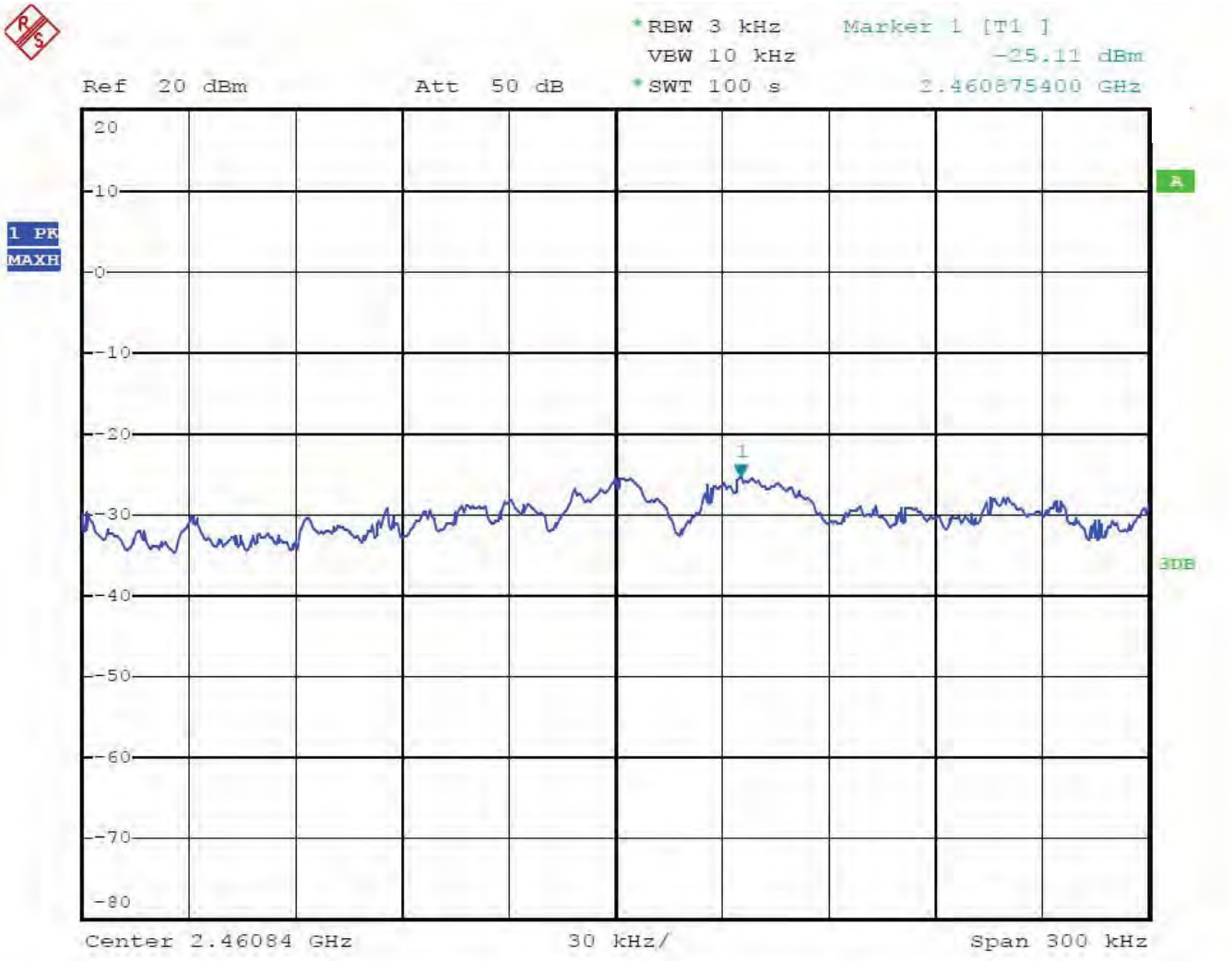
802.11n Channel High 2412MHz



802.11n Channel High 2437MHz

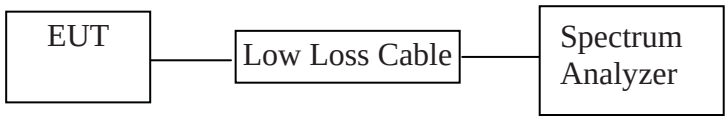


802.11n Channel High 2462MHz



8. BAND EDGE COMPLIANCE TEST

8.1.Block Diagram of Test Setup



(EUT: MID)

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.MID (EUT)

Model Number	:	GA20
Serial Number	:	N/A
Manufacturer	:	Shenzhen Leader Digital-tech Weitong Co., Ltd.

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

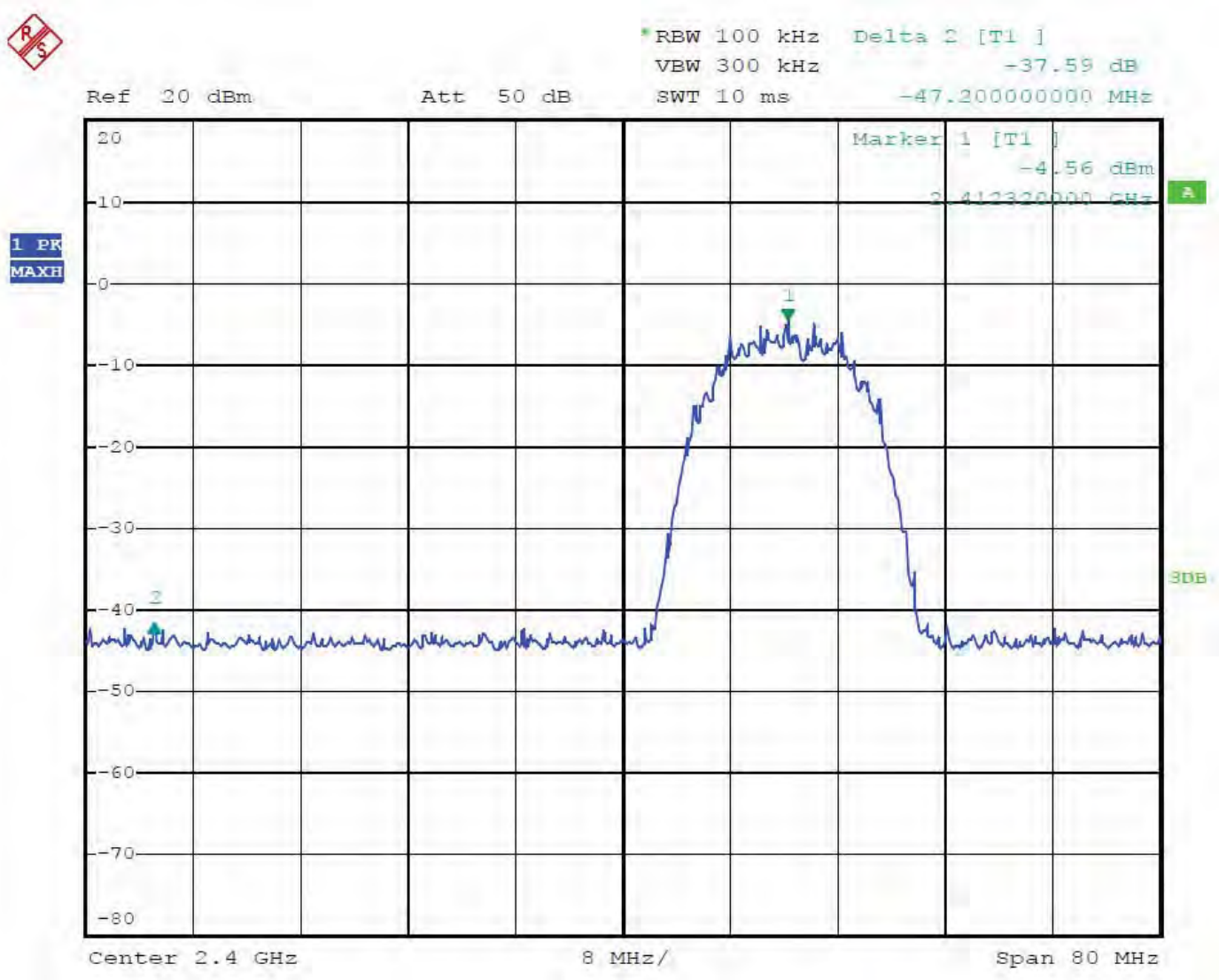
Date of Test:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	TX	Test Engineer:	Pei

The test was performed with 802.11b		
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	37.39	> 20dBc
2462	37.69	> 20dBc

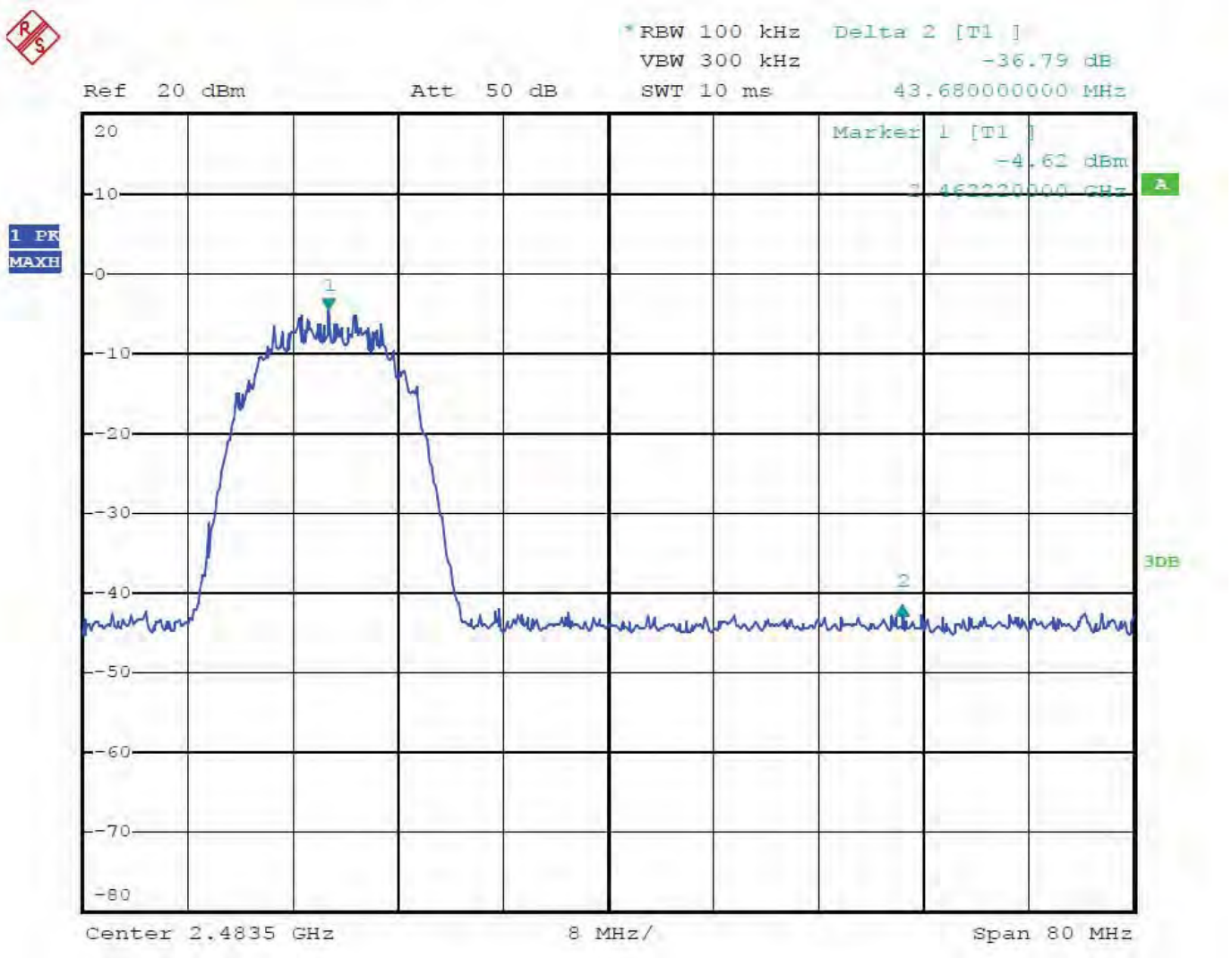
The test was performed with 802.11g		
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	33.58	> 20dBc
2462	32.12	> 20dBc

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

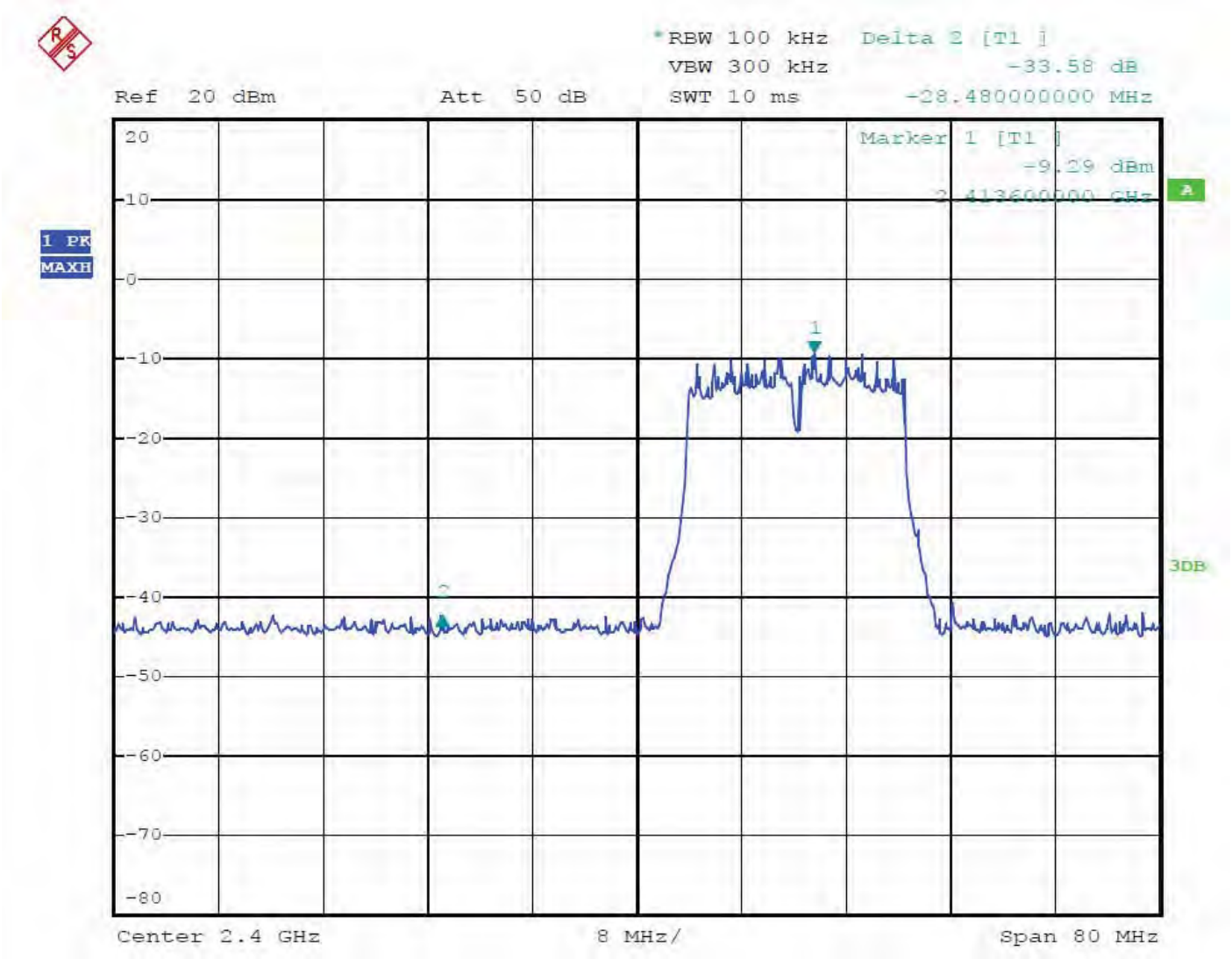
802.11b Channel Low 2412MHz



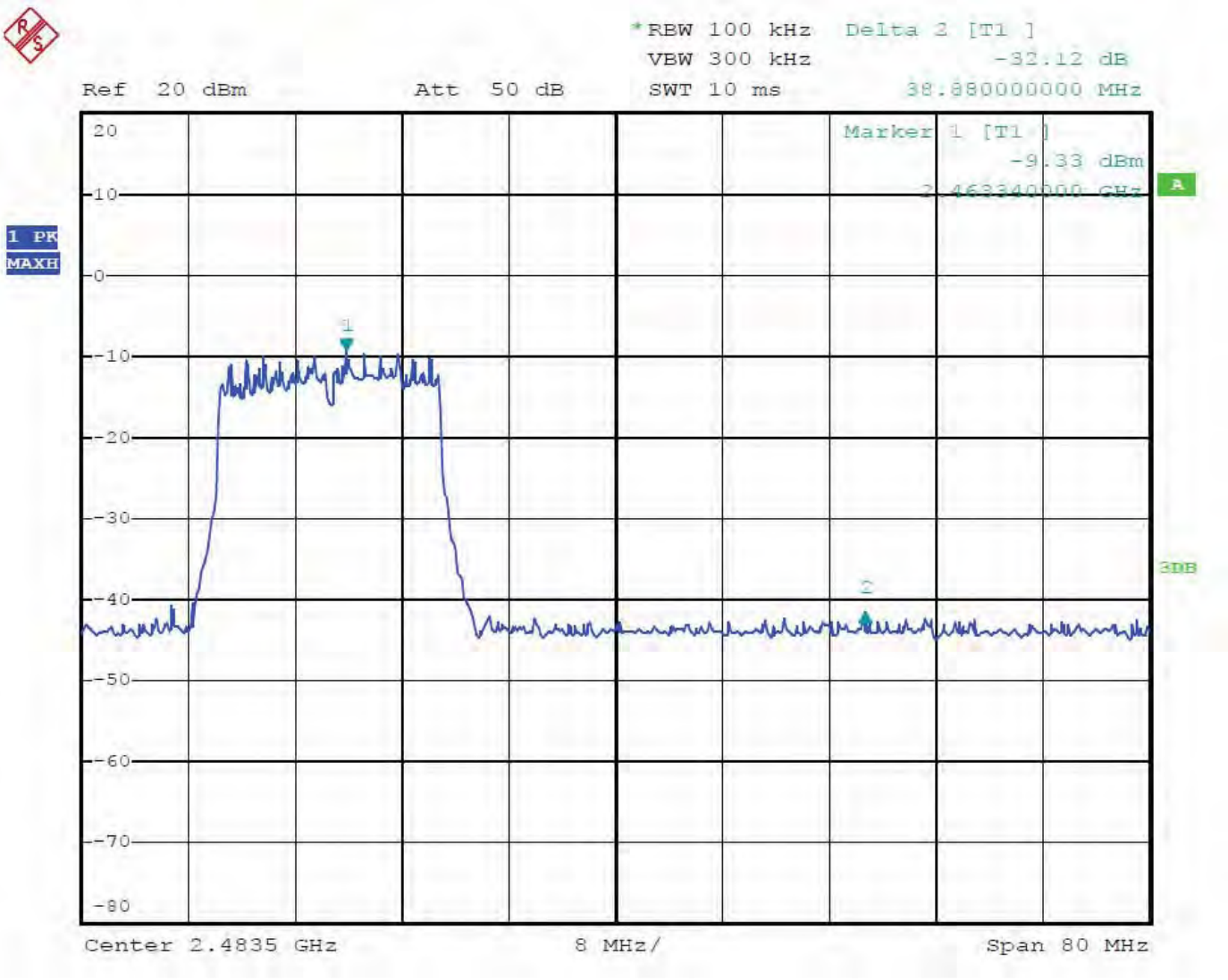
802.11b Channel High 2462MHz



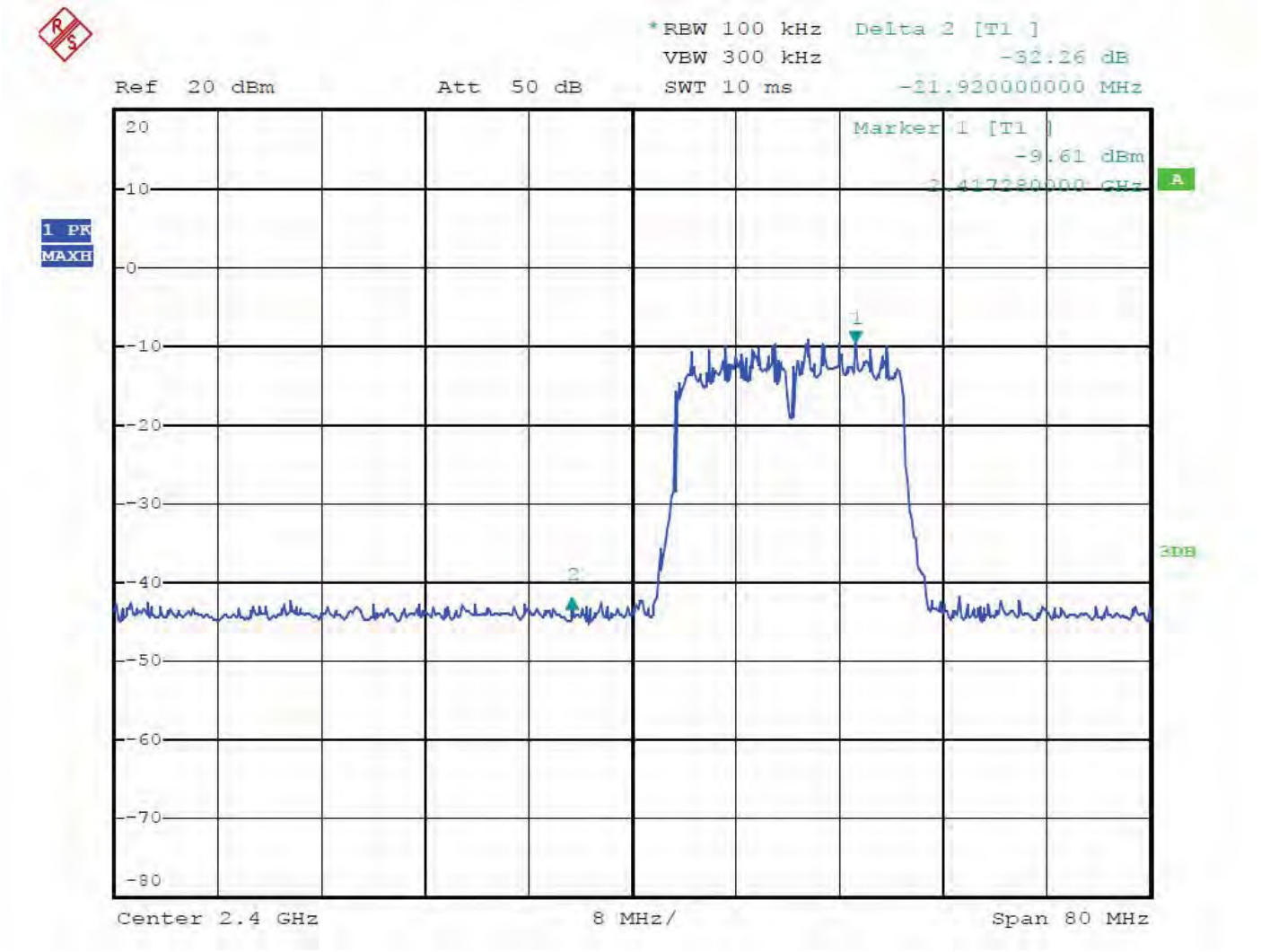
802.11g Channel Low 2412MHz



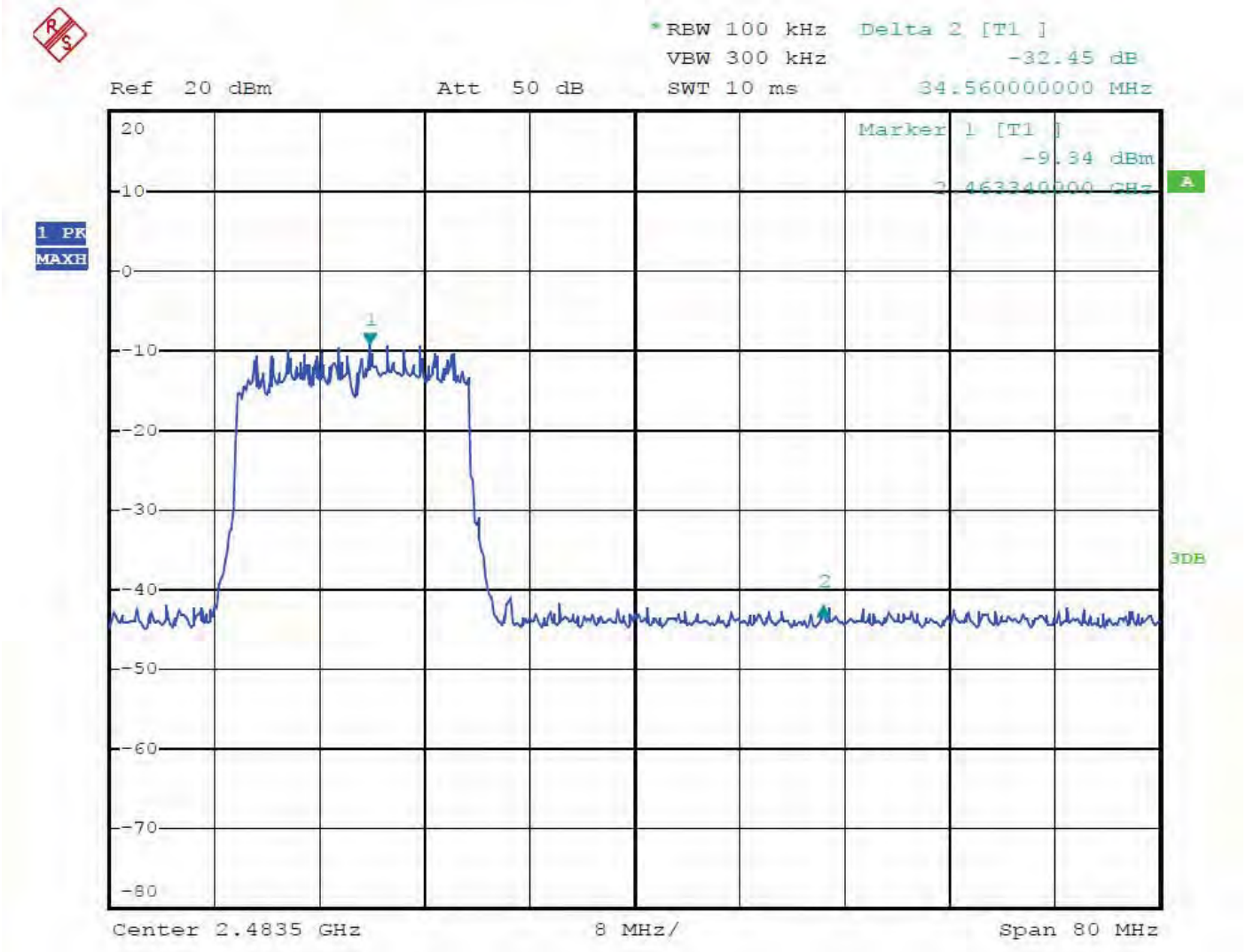
802.11g Channel High 2462MHz



802.11n Channel High 2412MHz



802.11n Channel High 2462MHz



Radiated Band Edge Result

Date of Test:	February 5, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel Low 2412MHz	Test Engineer:	Pei

Frequency	Reading(dBμV/m)		Factor(dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
(MHz)	AV	PEAK	Corr.	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:	February 5, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel High 2462MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/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:	February 5, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel Low 2412MHz	Test Engineer:	Pei

Frequency	Reading(dBμV/m)		Factor(dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dB)		Polarization
(MHz)	AV	PEAK	Corr.	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:	February 5, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel High 2462MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/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:	February 5, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n Channel Low 2412MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/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:	February 5, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n Channel High 2462MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dBμV/m)		Factor(dB) Corr.	Result(dBμV/m)		Limit(dBμV/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.

ACCURATE TECHNOLOGY CO., LTD.
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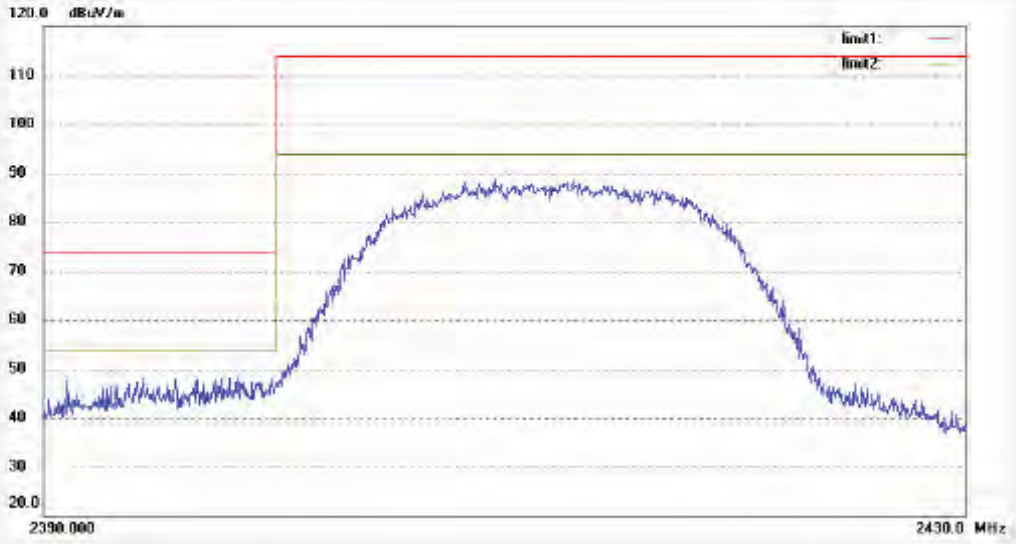
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1648	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/2/5
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 18:49:38
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 1 (802.11b)	Distance:
Model: GA20	
Manufacturer: eader Digital-tech Weitong	

Note: Report No.:ATE20120037



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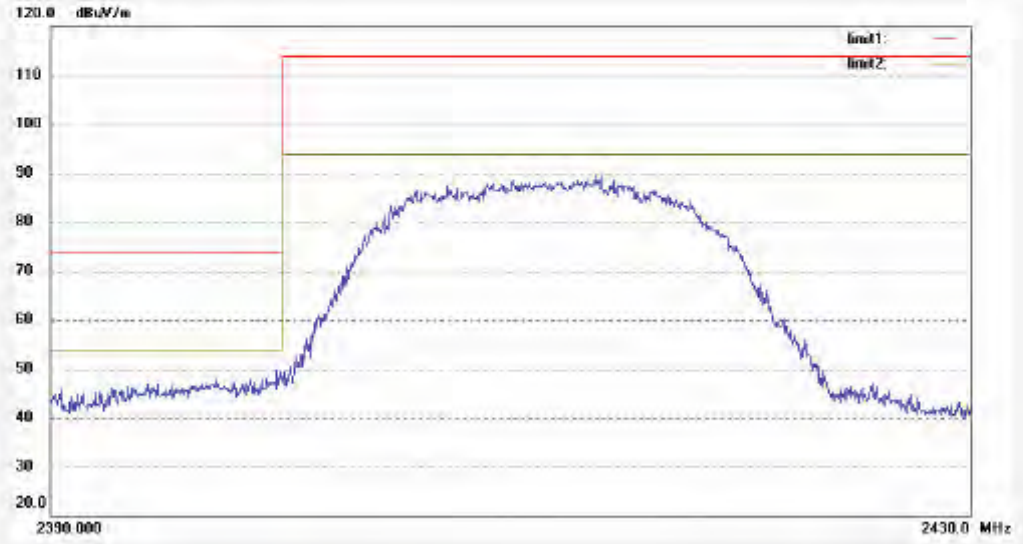
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1647	Polarization: Vertical
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/2/5
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 18:43:44
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 1 (802.11b)	Distance:
Model: GA20	
Manufacturer: eader Digital-tech Weitong	

Note: Report No.:ATE20120037



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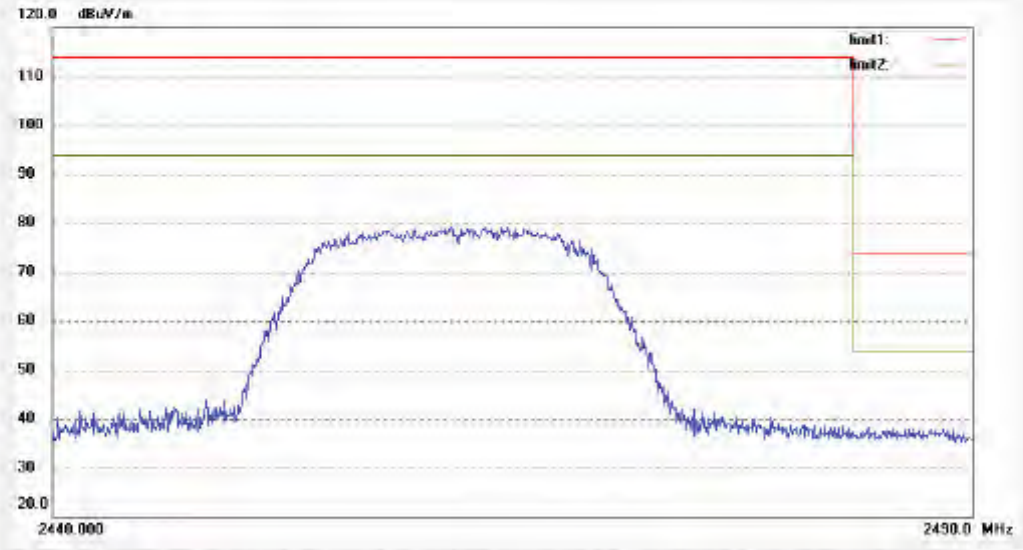
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1645	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/2/5
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 18:36:55
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 11 (802.11b)	Distance:
Model: GA20	
Manufacturer: eader Digital-tech Weitong	

Note: Report No.:ATE20120037



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.
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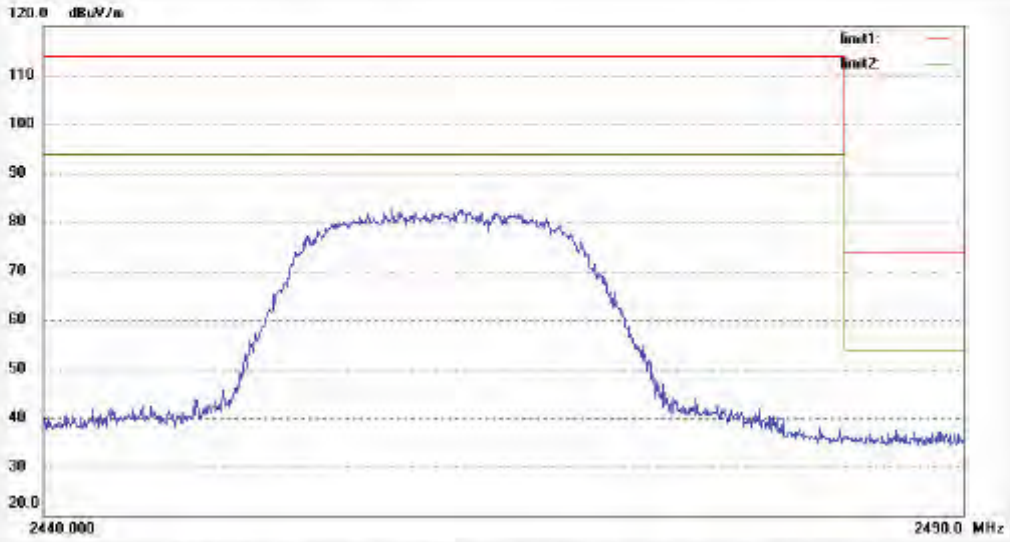
Fax:+86-0755-26503396

Job No.: Bob #1646	Polarization: Vertical
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/2/5
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 18:39:17
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 11 (802.11b)	Distance:
Model: GA20	
Manufacturer: eader Digital-tech Weitong	

Note: Report No.:ATE20120037



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.
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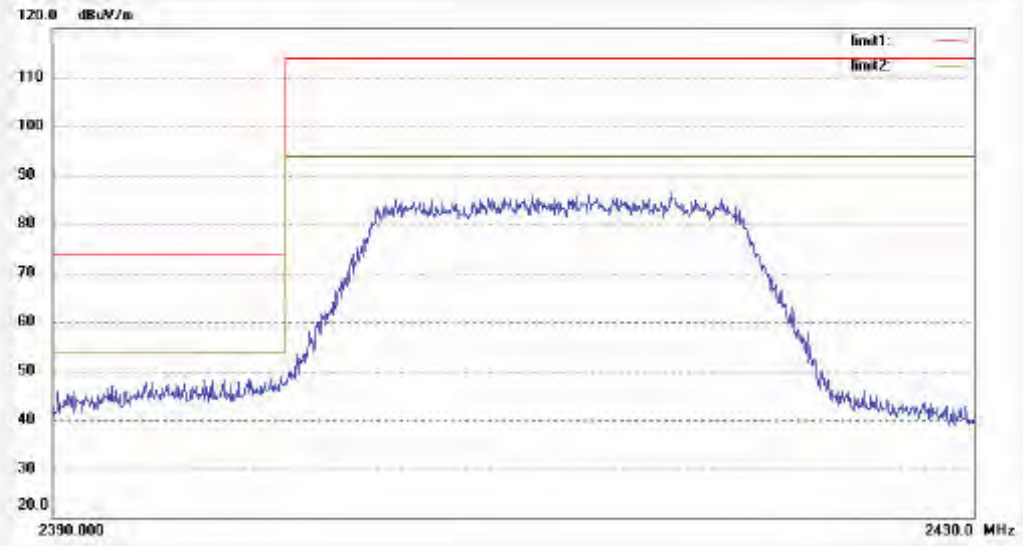
Fax:+86-0755-26503396

Job No.: Bob #1641	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/2/5
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 18:25:38
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 1 (802.11g)	Distance:
Model: GA20	
Manufacturer: eader Digital-tech Weitong	

Note: Report No.:ATE20120037



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.
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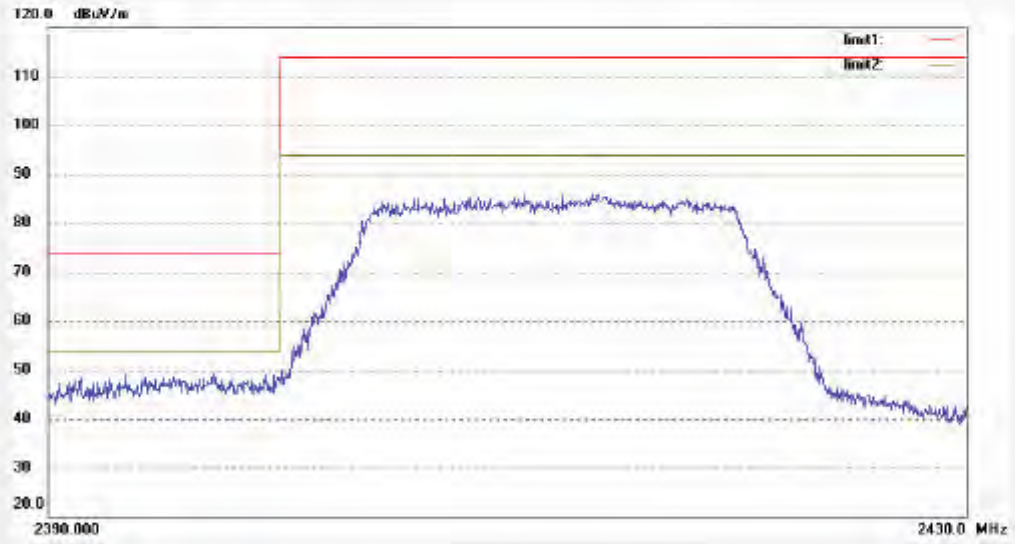
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1642	Polarization: Vertical
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/2/5
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 18:26:47
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 1 (802.11g)	Distance:
Model: GA20	
Manufacturer: eader Digital-tech Weitong	

Note: Report No.:ATE20120037



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,
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Fax:+86-0755-26503396

Job No.: Bob #1644	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/2/5
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 18:33:47
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 11 (802.11g)	Distance:
Model: GA20	
Manufacturer: eader Digital-tech Weitong	

Note: Report No.:ATE20120037

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
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Fax:+86-0755-26503396

Job No.: Bob #1643	Polarization: Vertical
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/2/5
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 18:30:38
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 11 (802.11g)	Distance:
Model: GA20	
Manufacturer: eader Digital-tech Weitong	

Note: Report No.:ATE20120037

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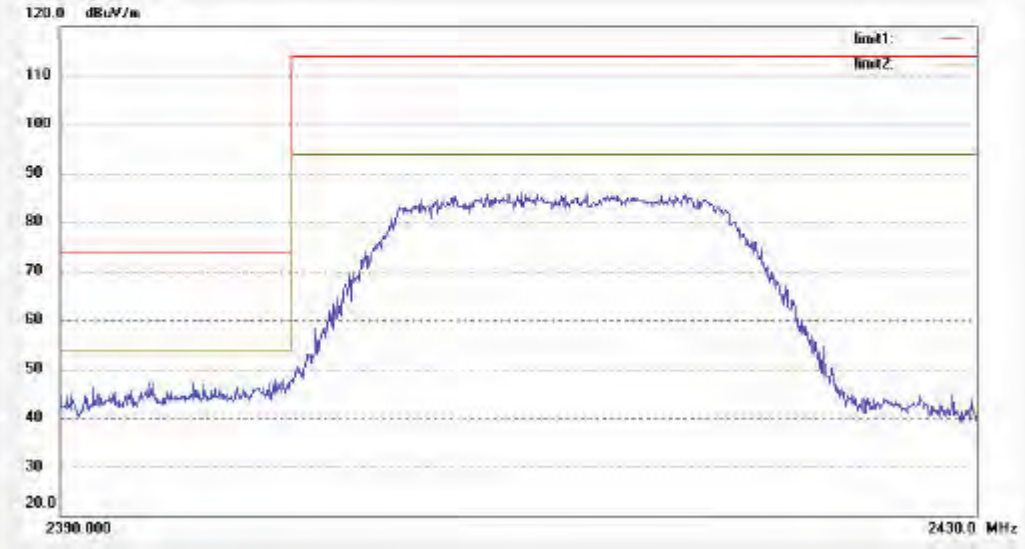
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1637	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/2/5
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 18:10:22
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 1 (802.11n)	Distance:
Model: GA20	
Manufacturer: eader Digital-tech Weitong	

Note: Report No.:ATE20120037



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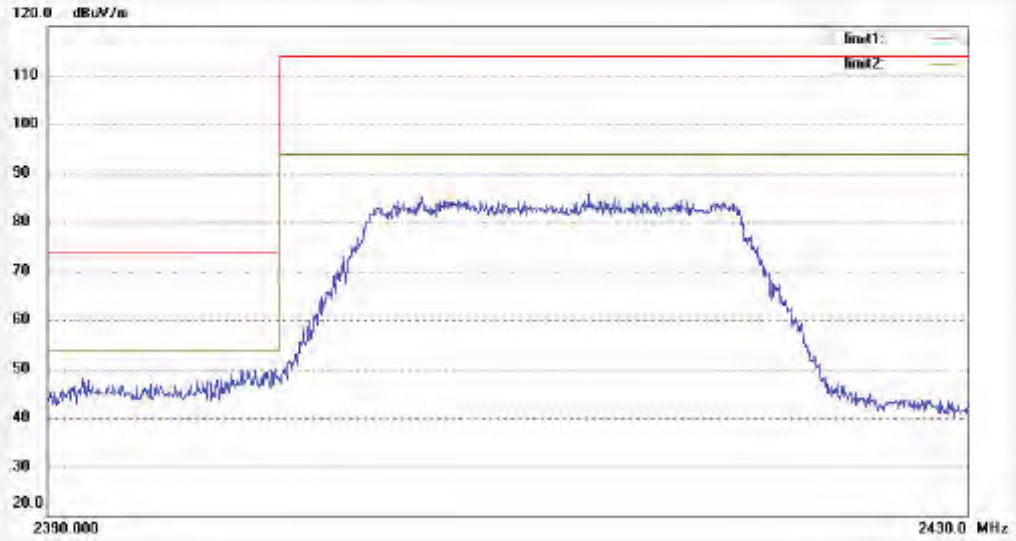
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1638	Polarization: Vertical
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/2/5
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 18:14:45
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 1 (802.11n)	Distance:
Model: GA20	
Manufacturer: eader Digital-tech Weitong	

Note: Report No.:ATE20120037

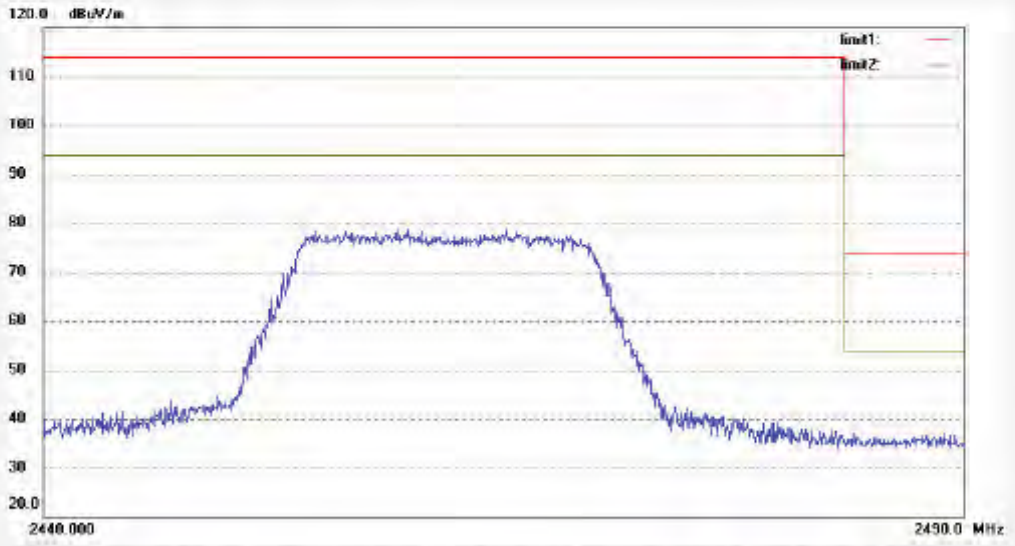


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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.: Bob #1640	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/2/5
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 18:22:47
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 11 (802.11n)	Distance:
Model: GA20	
Manufacturer: eader Digital-tech Weitong	

Note: Report No.:ATE20120037

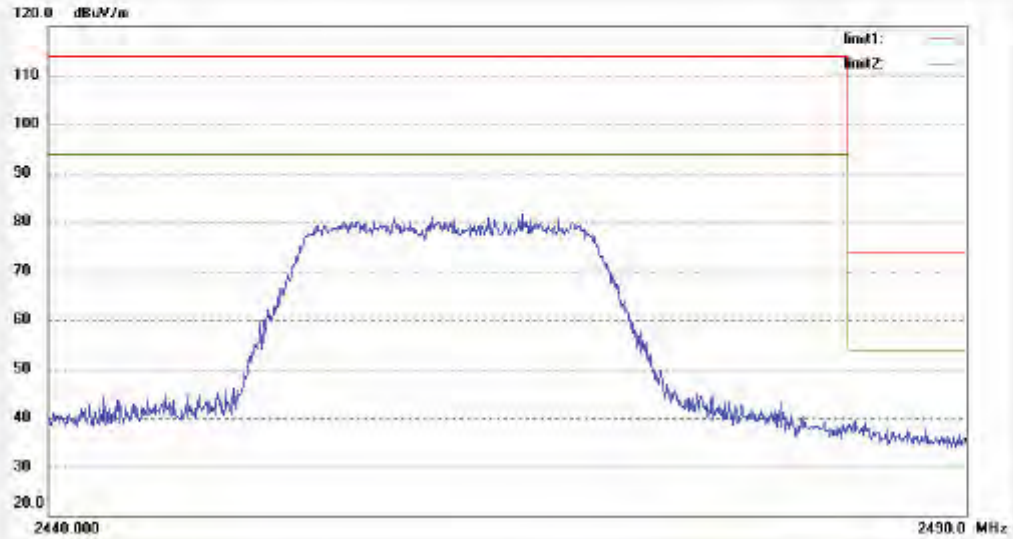


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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.: Bob #1639	Polarization: Vertical
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2012/2/5
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 18:18:22
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 11 (802.11n)	Distance:
Model: GA20	
Manufacturer: eader Digital-tech Weitong	

Note: Report No.:ATE20120037

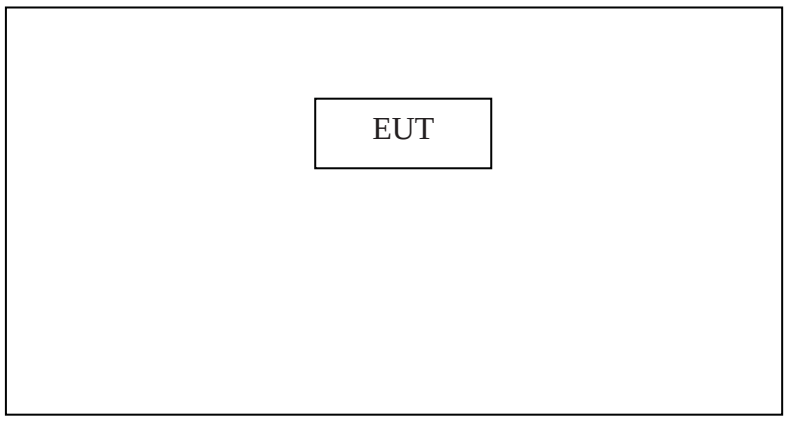


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

9. RADIATED SPURIOUS EMISSION TEST

9.1.Block Diagram of Test Setup

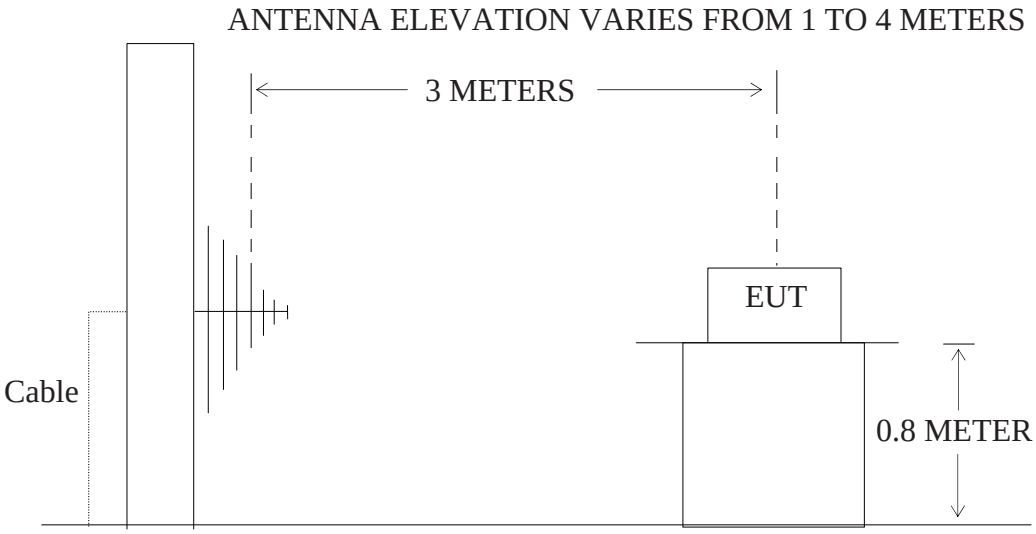
9.1.1.Block diagram of connection between the EUT and peripherals



Setup: Transmitting mode

(EUT: MID)

9.1.2.Semi-Anechoic Chamber Test Setup Diagram



(EUT: MID)

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
[1]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	([2])
13.36-13.41			

[1]Until February 1, 1999, this restricted band shall be 0.490-0.510
[2]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 Section15.209 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.MID (EUT)

Model Number	:	GA20
Serial Number	:	N/A
Manufacturer	:	Shenzhen Leader Digital-tech Weitong Co., Ltd.

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:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel Low 2412MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
35.5112	13.62	16.66	30.28	40.00	-9.72	Vertical
142.7692	14.67	14.49	29.16	43.50	-14.34	Vertical
364.8026	12.87	21.46	34.33	46.00	-11.67	Vertical
121.0363	10.39	14.75	25.14	43.50	-18.36	Horizontal
147.8747	11.10	14.51	25.61	43.50	-17.89	Horizontal
364.8026	11.08	21.46	32.54	46.00	-13.46	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		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. *: Denotes restricted band of operation.

Date of Test:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel Middle 2437MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
34.2852	10.00	16.85	26.85	40.00	-13.15	Vertical
39.8769	12.18	16.36	28.54	40.00	-11.46	Vertical
428.7960	11.44	23.01	34.45	46.00	-11.55	Vertical
121.0363	10.15	14.75	24.90	43.50	-18.60	Horizontal
168.9970	8.46	15.51	23.97	43.50	-19.53	Horizontal
364.8026	8.68	21.46	30.14	46.00	-15.86	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		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. *: Denotes restricted band of operation.

Date of Test:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel High 2462MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
34.7705	12.21	16.74	28.95	40.00	-11.05	Vertical
148.9175	10.88	14.52	25.40	43.50	-18.10	Vertical
364.8026	11.80	21.46	33.26	46.00	-12.74	Vertical
121.0363	9.71	14.75	24.46	43.50	-19.04	Horizontal
145.8109	8.10	14.49	22.59	43.50	-20.91	Horizontal
308.1862	8.90	18.98	27.88	46.00	-18.12	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		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. *: Denotes restricted band of operation.

Date of Test:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel Low 2412MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
34.1649	12.32	16.88	29.20	40.00	-10.80	Vertical
121.0363	14.26	14.75	29.01	43.50	-14.49	Vertical
364.8026	12.52	21.46	33.98	46.00	-12.02	Vertical
121.0363	14.11	14.75	28.86	43.50	-14.64	Horizontal
144.7899	8.29	14.48	22.77	43.50	-20.73	Horizontal
364.8026	12.76	21.46	34.22	46.00	-11.78	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		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. *: Denotes restricted band of operation.

Date of Test:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel Middle 2437MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
34.1649	12.41	16.88	29.29	40.00	-10.71	Vertical
46.7077	10.59	15.43	26.02	40.00	-13.98	Vertical
428.7960	10.16	23.01	33.17	46.00	-12.83	Vertical
121.0363	8.74	14.75	23.49	43.50	-20.01	Horizontal
242.6889	10.82	16.94	27.76	46.00	-18.24	Horizontal
364.8026	11.03	21.46	32.49	46.00	-13.51	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		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. *: Denotes restricted band of operation.

Date of Test:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel High 2462MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
34.4059	12.21	16.82	29.03	40.00	-10.97	Vertical
46.3806	10.12	15.53	25.65	40.00	-14.35	Vertical
428.7960	10.82	23.01	33.83	46.00	-12.17	Vertical
121.0363	9.94	14.75	24.69	43.50	-18.81	Horizontal
242.6889	10.44	16.94	27.38	46.00	-18.62	Horizontal
364.8026	9.16	21.46	30.62	46.00	-15.38	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		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. *: Denotes restricted band of operation.

Date of Test:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n Channel Low 2412MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
34.0451	11.74	16.91	28.65	40.00	-11.35	Vertical
121.0363	16.01	14.75	30.76	43.50	-12.74	Vertical
428.7960	11.48	23.01	34.49	46.00	-11.51	Vertical
121.0363	11.93	14.75	26.68	43.50	-16.82	Horizontal
170.1888	7.00	15.72	22.72	43.50	-20.78	Horizontal
364.8026	11.34	21.46	32.80	46.00	-13.20	Horizontal

14.32

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		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. *: Denotes restricted band of operation.

Date of Test:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n Channel Middle 2437MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
34.4059	14.09	16.82	30.91	40.00	-9.09	Vertical
46.5439	11.23	15.49	26.72	40.00	-13.28	Vertical
364.8026	15.65	21.46	37.11	46.00	-8.89	Vertical
121.0363	8.61	14.75	23.36	43.50	-20.14	Horizontal
170.7878	7.90	15.72	23.62	43.50	-19.88	Horizontal
364.8026	9.42	21.46	30.88	46.00	-15.12	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		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. *: Denotes restricted band of operation.

Date of Test:	February 3, 2012	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	GA20	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n Channel High 2462MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dBμV/m)	Factor Corr. (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Polarization
	QP		QP	QP	QP	
34.5270	13.34	16.79	30.22	40.00	-9.78	Vertical
147.8747	9.88	14.51	24.39	43.50	-19.11	Vertical
428.7960	10.06	23.01	33.07	46.00	-12.93	Vertical
121.0363	10.55	14.75	25.30	43.50	-18.20	Horizontal
143.7760	8.36	14.48	22.84	43.50	-20.66	Horizontal
308.1862	8.17	18.98	27.15	46.00	-18.85	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dBμV/m)		Factor Corr. (dB)	Result(dBμV/m)		Limit(dBμV/m)		Margin(dBμV/m)		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.

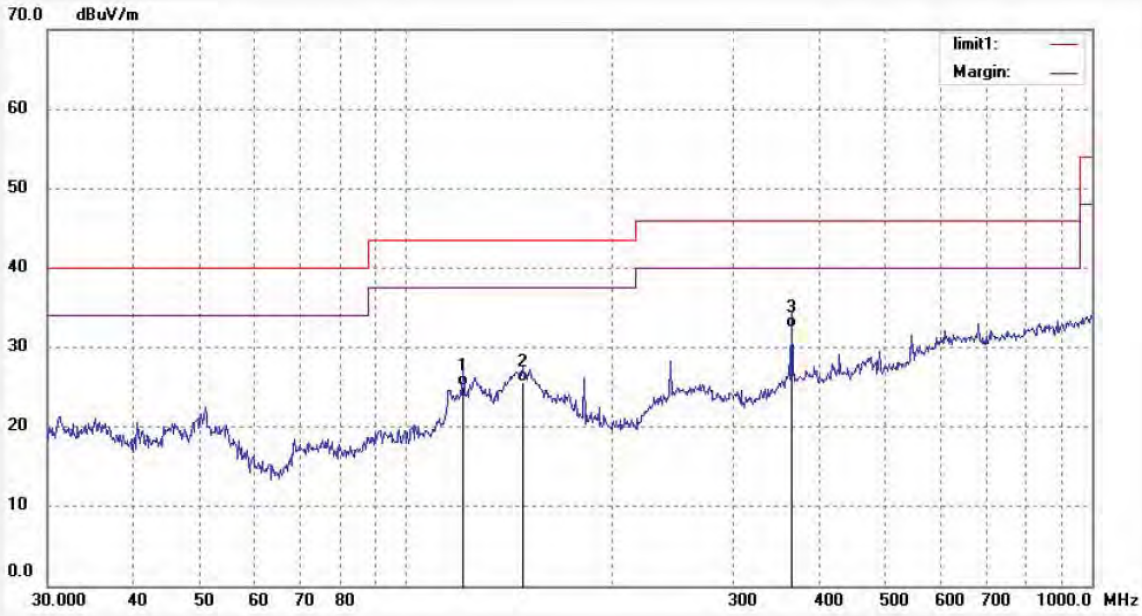
2. *: Denotes restricted band of operation.

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.: Bob #911
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 1(802.11b)
Model: GA20
Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 12/02/03/
Time: 9/05/24
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	121.0363	10.39	14.75	25.14	43.50	-18.36	QP			
2	147.8747	11.10	14.51	25.61	43.50	-17.89	QP			
3	364.8026	11.08	21.46	32.54	46.00	-13.46	QP			

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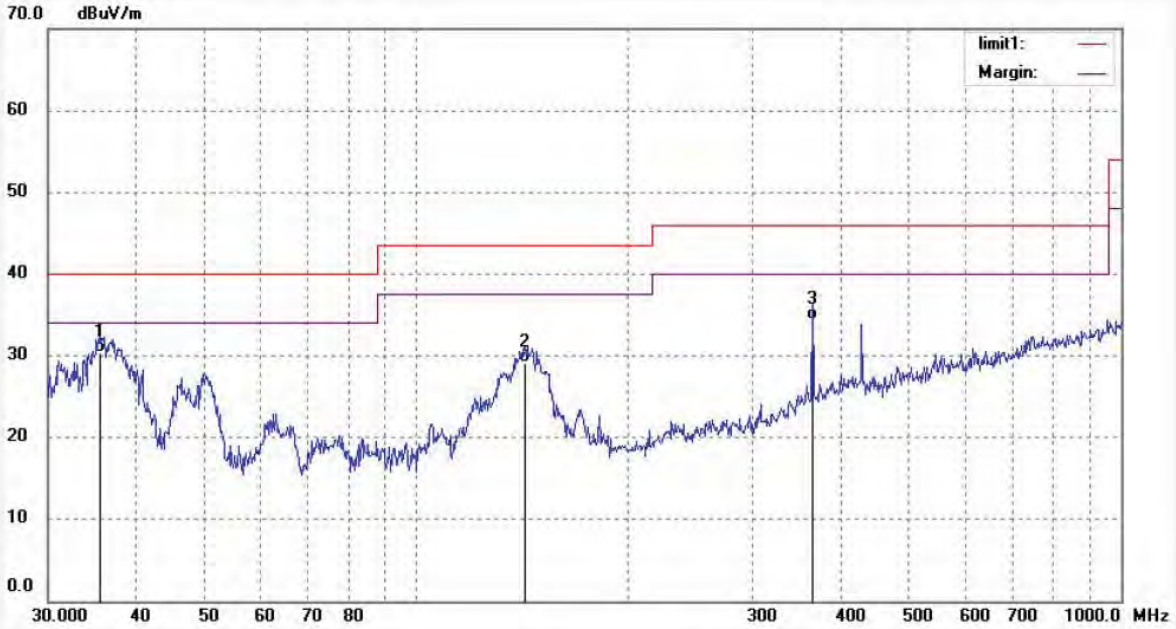
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #912
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 1(802.11b)
Model: GA20
Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 12/02/03/
Time: 9/06/55
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.5112	13.62	16.66	30.28	40.00	-9.72	QP			
2	142.7692	14.67	14.49	29.16	43.50	-14.34	QP			
3	364.8026	12.87	21.46	34.33	46.00	-11.67	QP			

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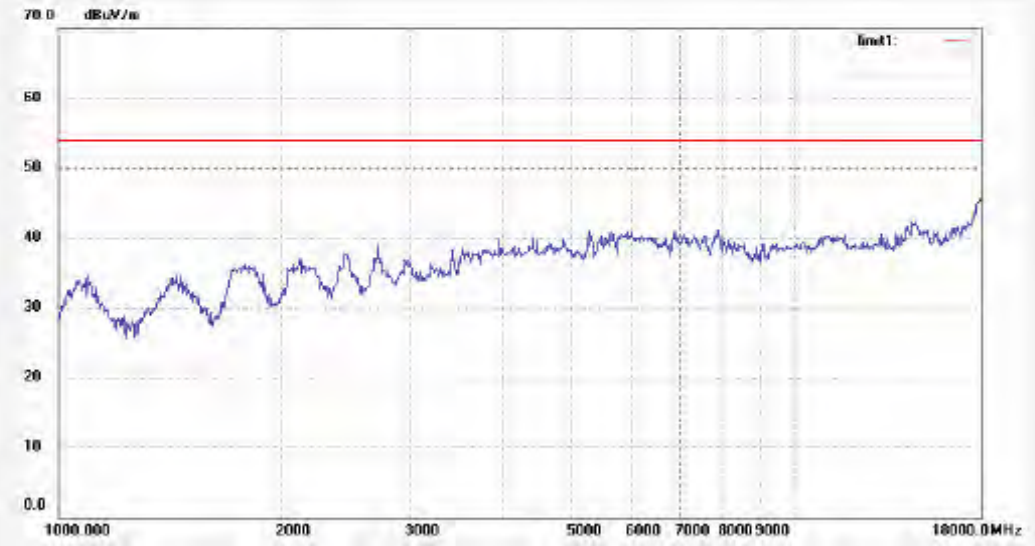
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1619	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/06
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11:40:11
EUT: mid	Engineer Signature: Bob
Mode: TX Channel 1 (802.11b)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report No.:ATE20120037

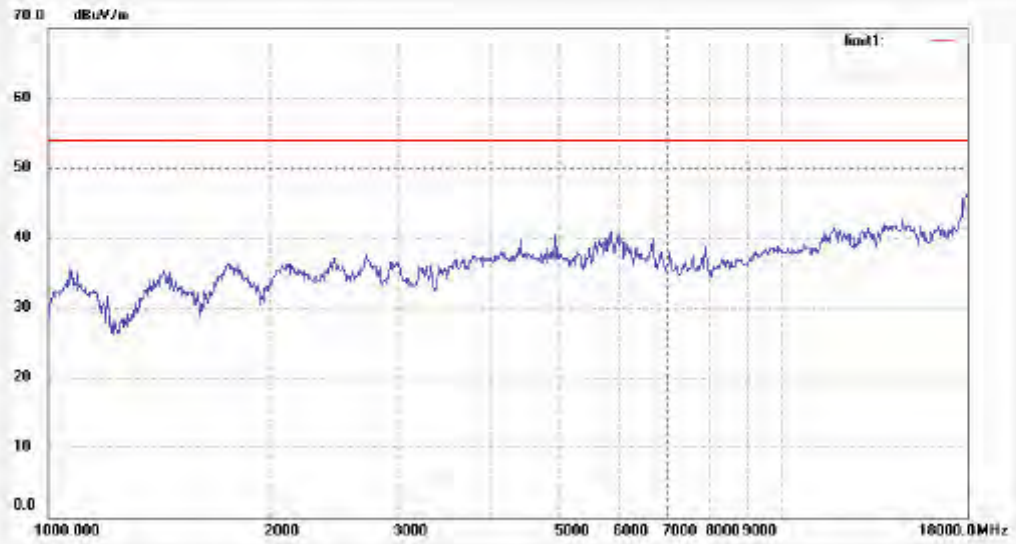


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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.: Bob #1620	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/06
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11:43:23
EUT: mid	Engineer Signature: Bob
Mode: TX Channel 1 (802.11b)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report No.:ATE20120037



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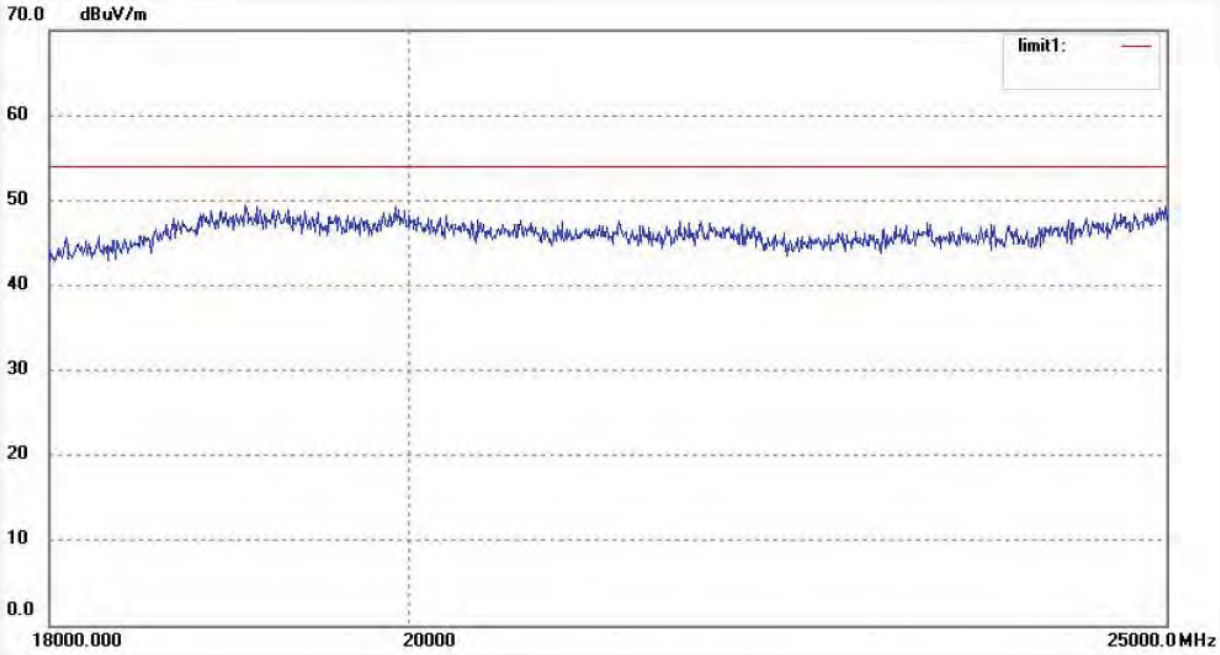
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1601	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/06
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 10:05:15
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 1 (802.11b)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report No.:ATE20120037



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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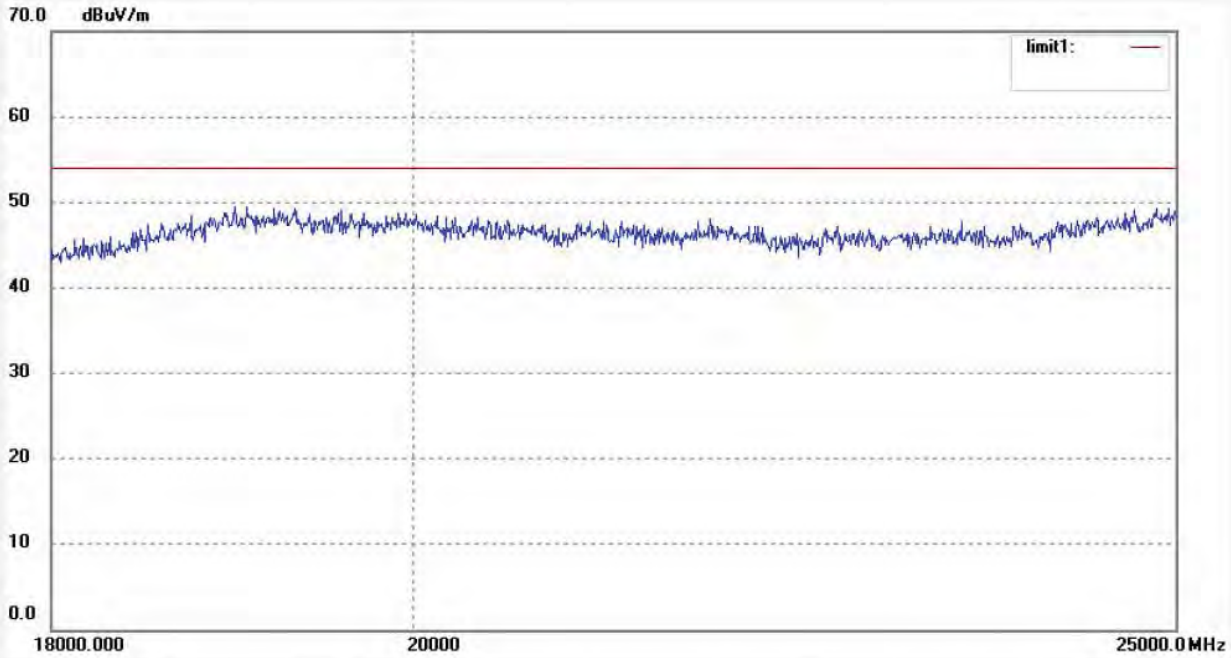
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1602	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/06
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 10:09:22
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 1 (802.11b)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report No.:ATE20120037



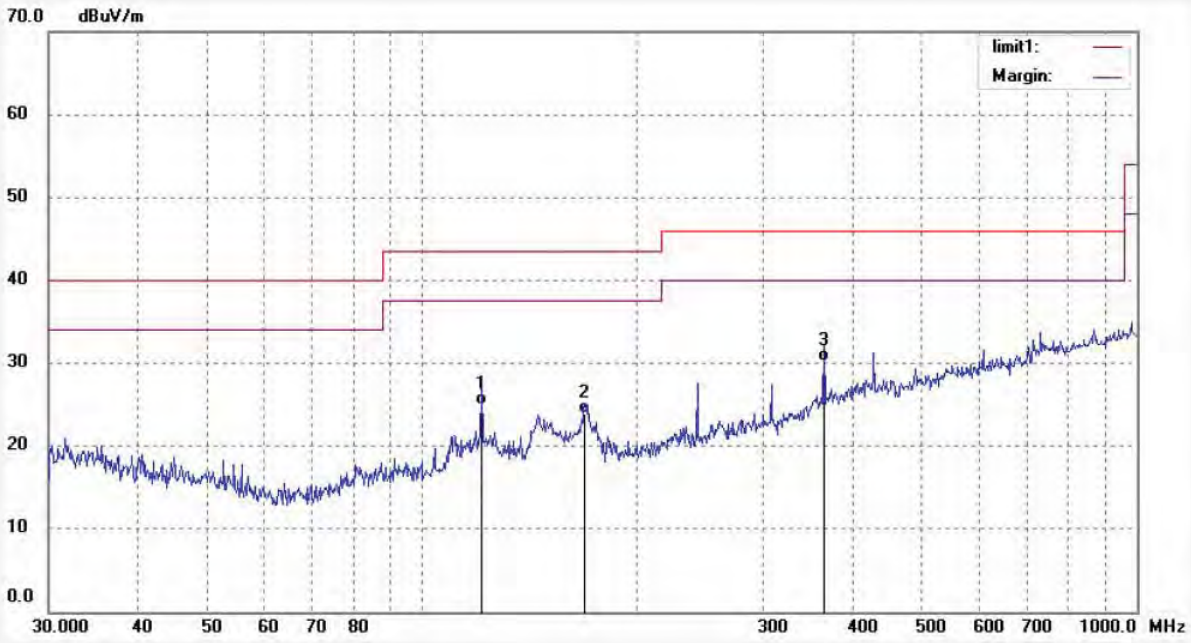
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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.: Bob #922
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 6(802.11b)
Model: GA20
Manufacturer: Leader Digital-tech Weitong

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 12/02/03/
Time: 9/30/56
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	121.0363	10.15	14.75	24.90	43.50	-18.60	QP			
2	168.9970	8.46	15.51	23.97	43.50	-19.53	QP			
3	364.8026	8.68	21.46	30.14	46.00	-15.86	QP			

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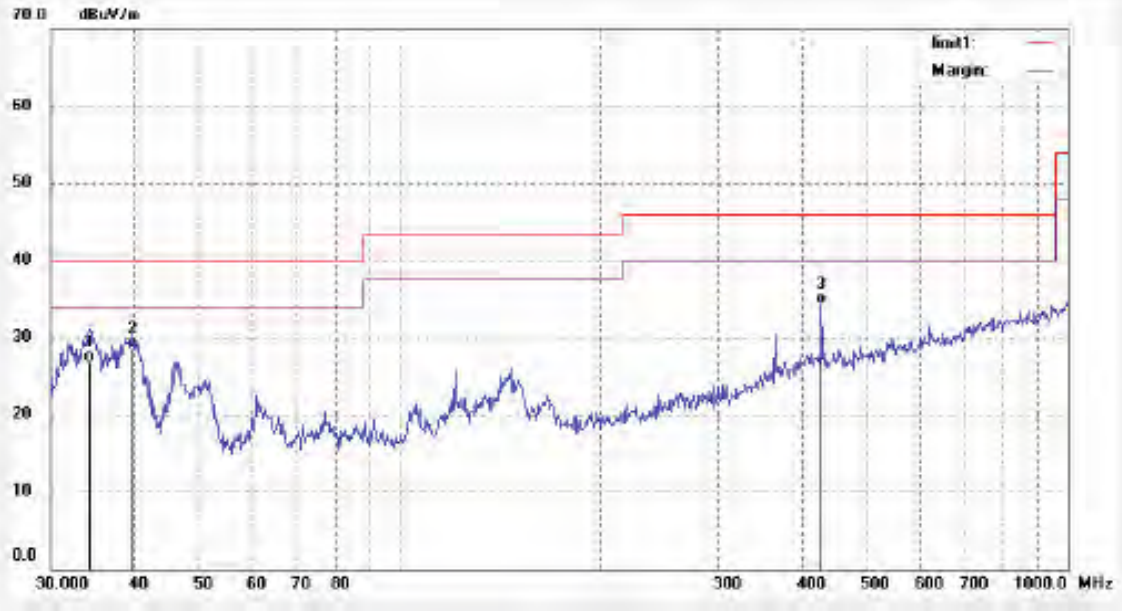
Fax:+86-0755-26503396

Job No.: Bob #921
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 6(802.11b)
Model: GA2X
Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 12/02/03/
Time: 9/29/52
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.2852	10.00	16.85	26.85	40.00	-13.15	QP			
2	39.8769	12.18	16.36	28.54	40.00	-11.46	QP			
3	428.7960	11.44	23.01	34.45	46.00	-11.55	QP			

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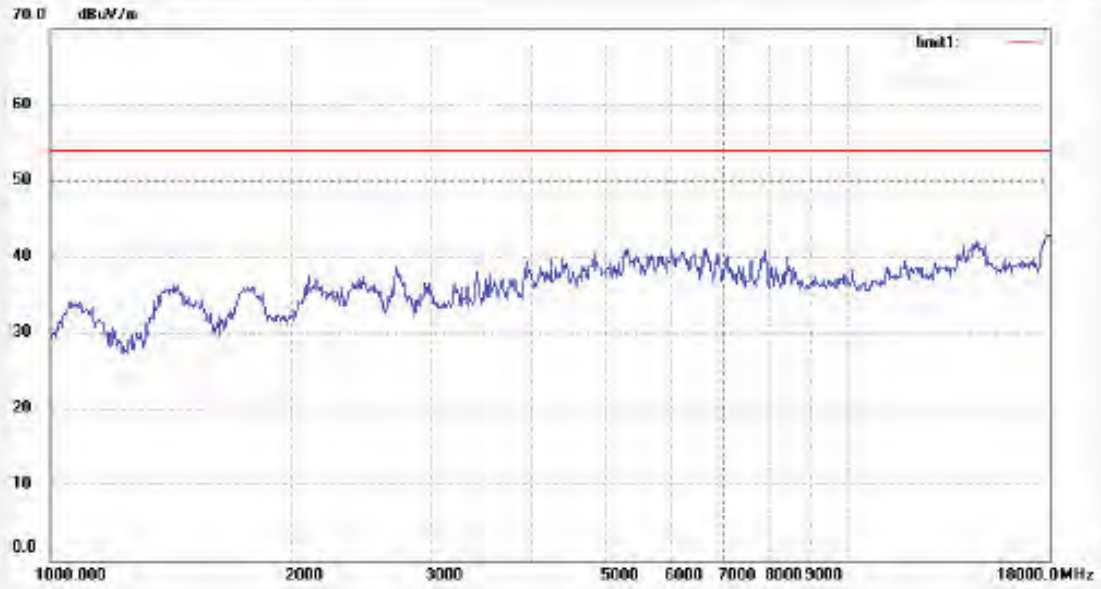
Fax:+86-0755-26503396

Job No.: Bob #1622	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/06
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11:50:42
EUT: mid	Engineer Signature: Bob
Mode: TX Channel 6 (802.11b)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report No.:ATE20120037



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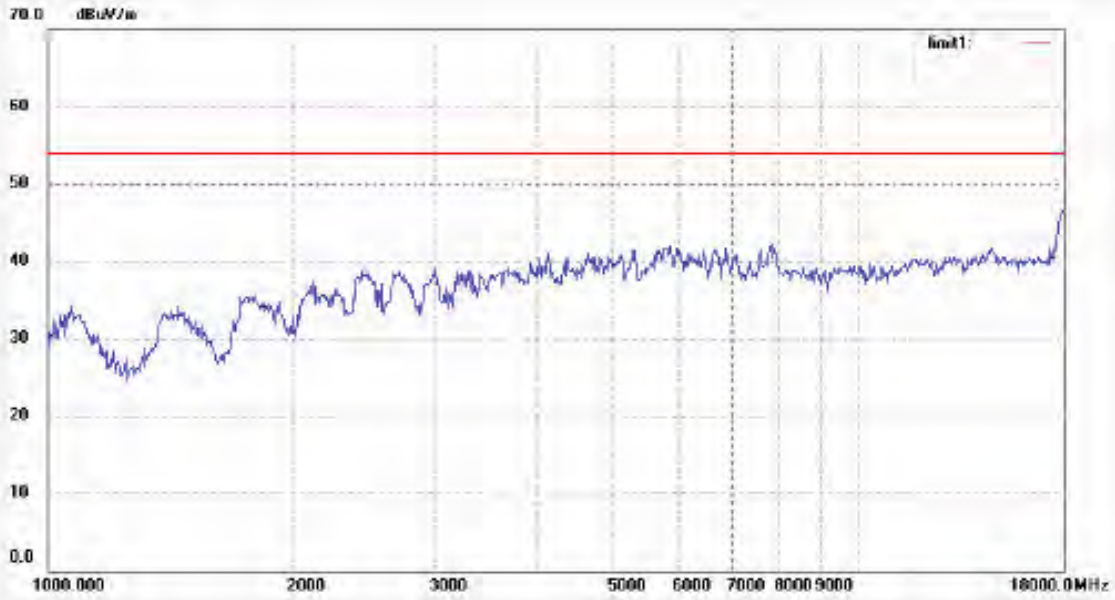
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1621	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/06
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11:46:45
EUT: mid	Engineer Signature: Bob
Mode: TX Channel 6 (802.11b)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report No.:ATE20120037



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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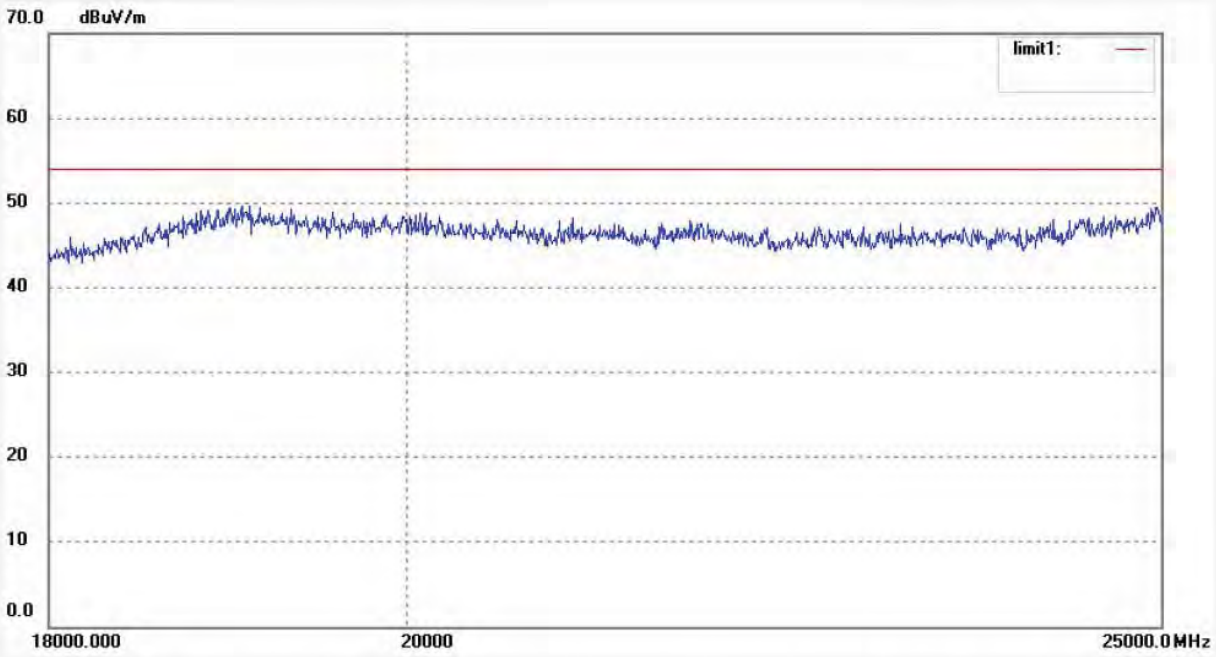
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1604	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/06
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 10:18:36
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 6 (802.11b)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report No.:ATE20120037

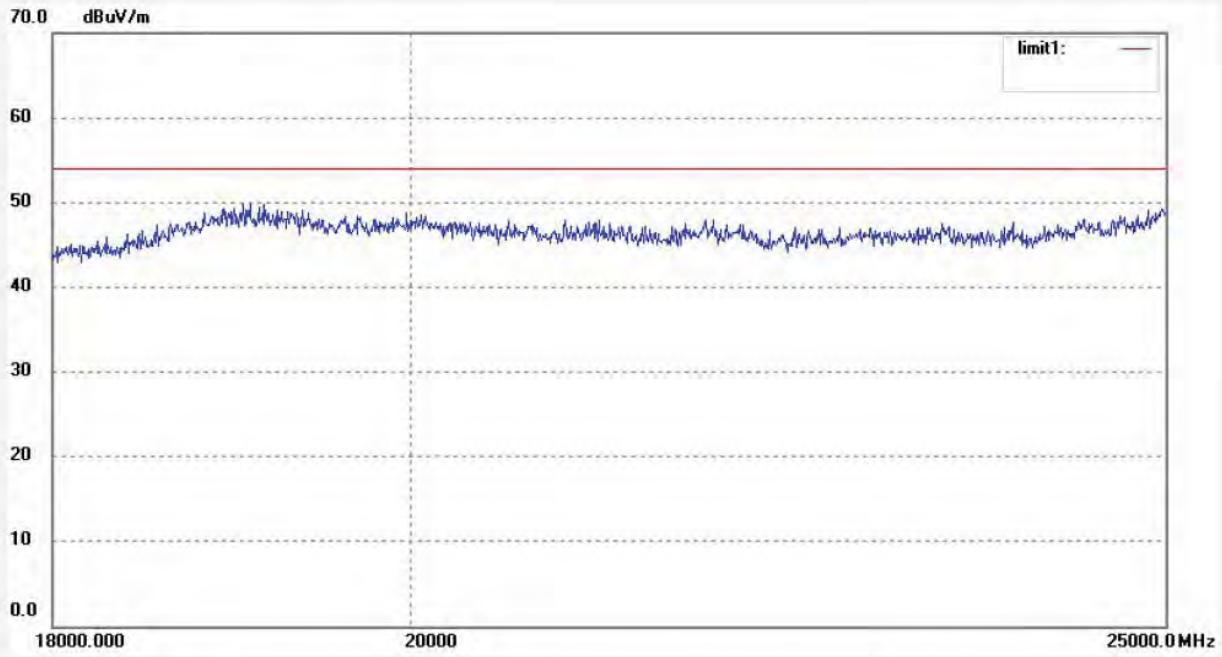


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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.: Bob #1603	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/06
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 10:14:45
EUT: MID	Engineer Signature: Bob
Mode: TX Channel 6 (802.11b)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report No.:ATE20120037

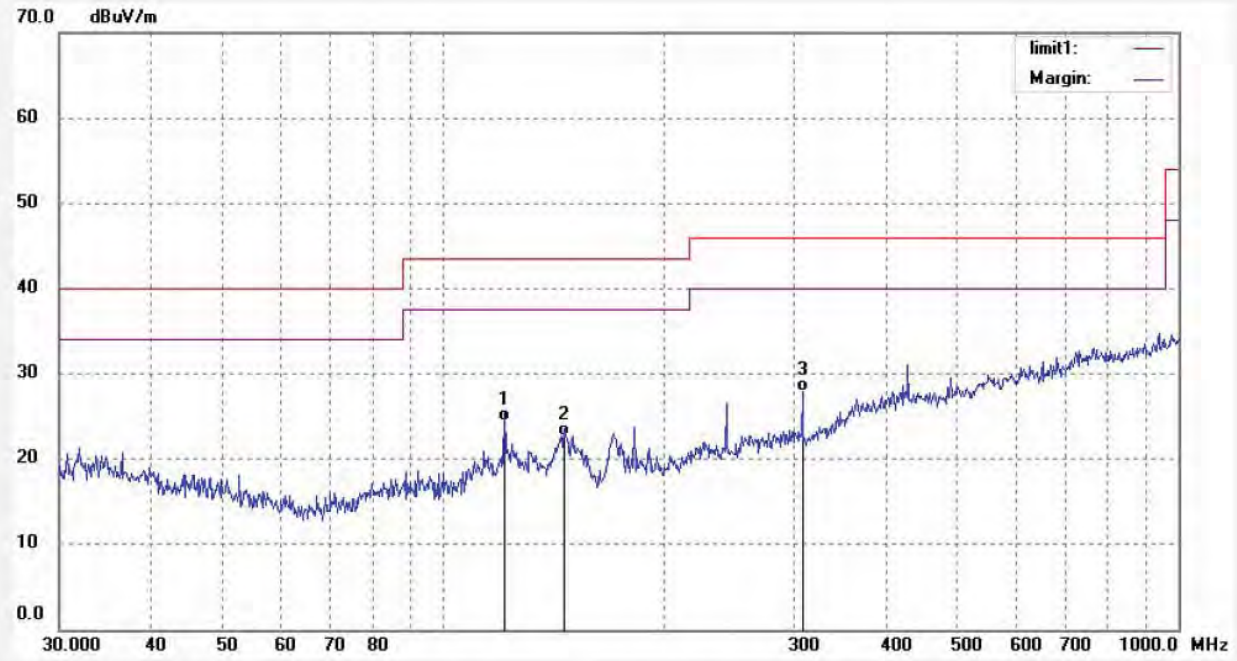


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

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.: Bob #923	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/03/
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 9/31/51
EUT: MID	Engineer Signature:
Mode: TX Channel 11(802.11b)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	121.0363	9.71	14.75	24.46	43.50	-19.04	QP			
2	145.8109	8.10	14.49	22.59	43.50	-20.91	QP			
3	308.1862	8.90	18.98	27.88	46.00	-18.12	QP			

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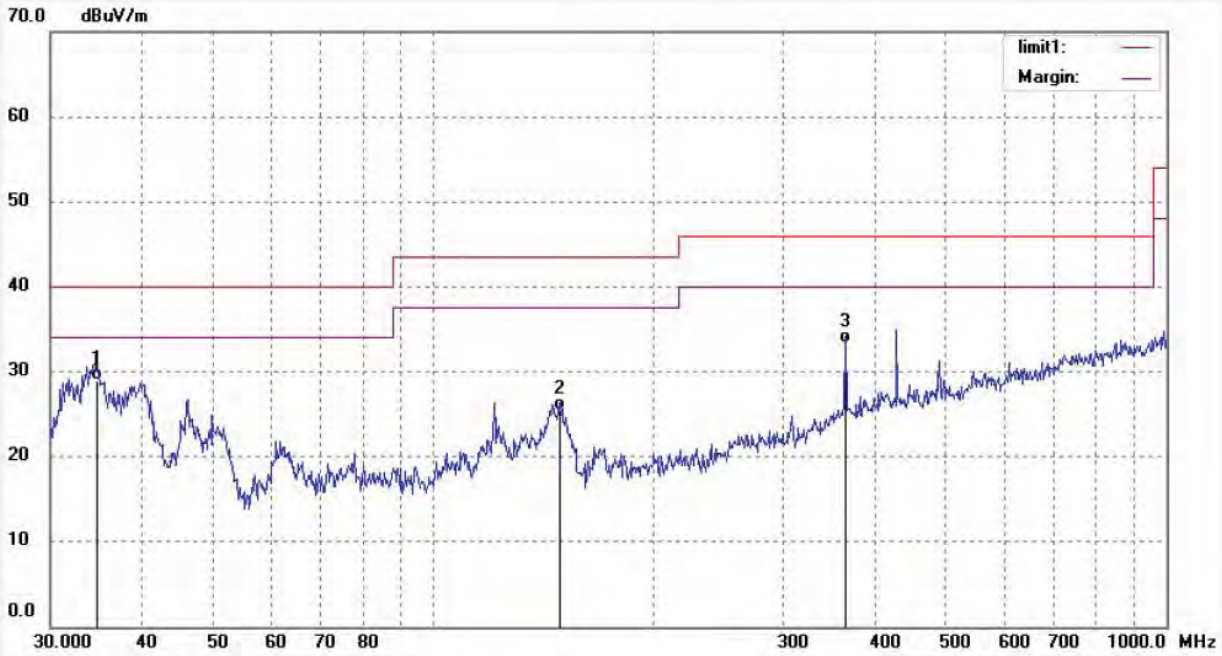
Fax:+86-0755-26503396

Job No.: Bob #924
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 24 C / 48 %
EUT: MID
Mode: TX Channel 11(802.11b)
Model: GA20
Manufacturer: Leader Digital-tech Weitong

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 12/02/03/
Time: 9/32/43
Engineer Signature:
Distance: 3m

Note: Report NO.:ATE20120037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	34.7705	12.21	16.74	28.95	40.00	-11.05	QP			
2	148.9175	10.88	14.52	25.40	43.50	-18.10	QP			
3	364.8026	11.80	21.46	33.26	46.00	-12.74	QP			

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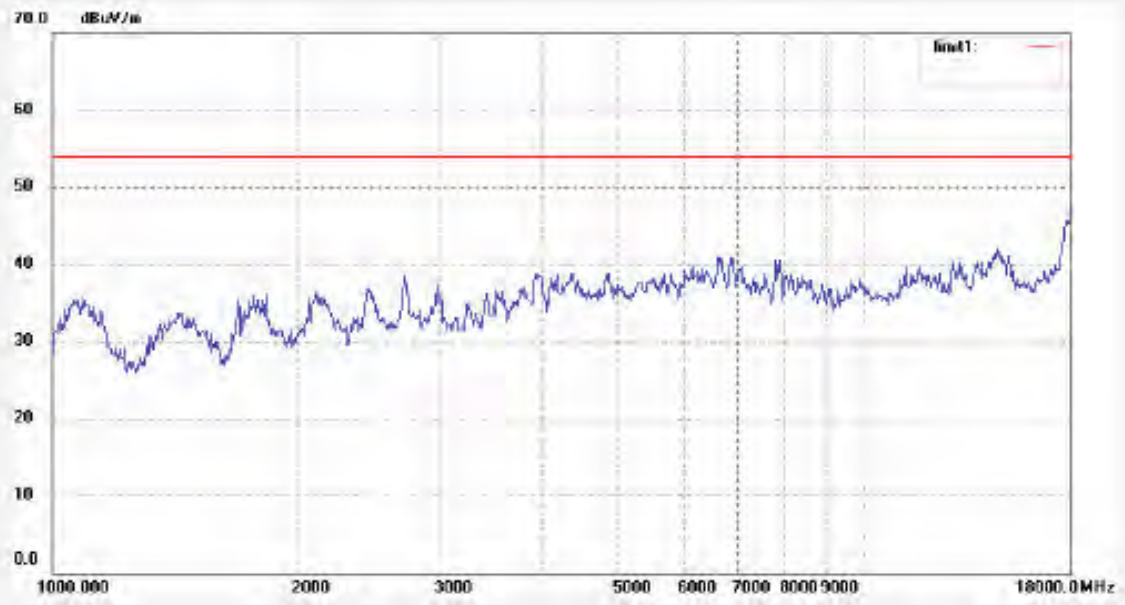
Fax:+86-0755-26503396

Job No.: Bob #1623	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/06
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11:53:36
EUT: mid	Engineer Signature: Bob
Mode: TX Channel 11 (802.11b)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report No.:ATE20120037



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.
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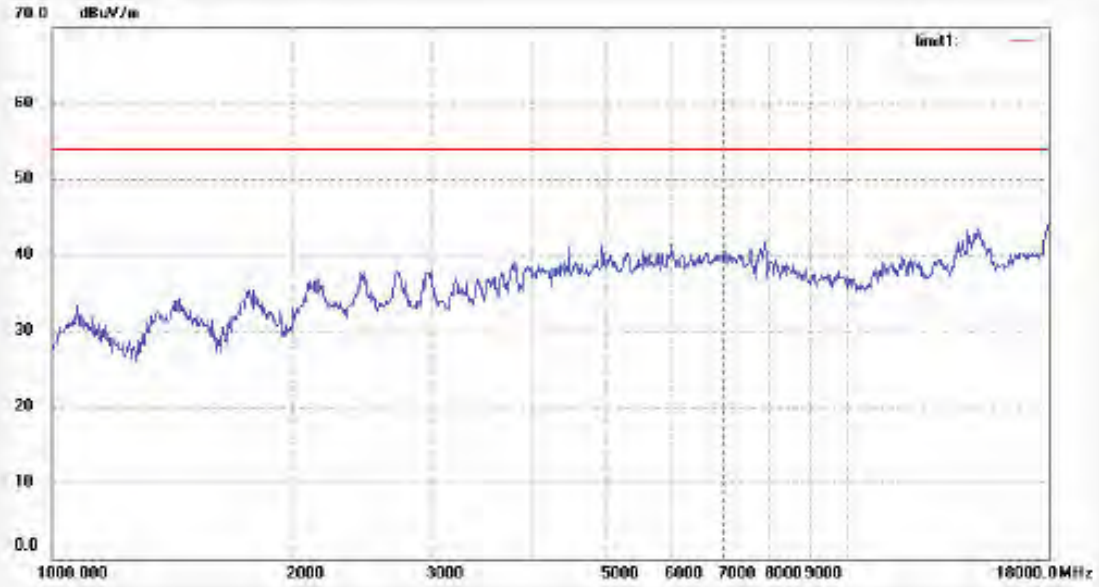
Fax:+86-0755-26503396

Job No.: Bob #1624	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 12/02/06
Temp.(C)/Hum.(%) 24 C / 48 %	Time: 11:56:56
EUT: mid	Engineer Signature: Bob
Mode: TX Channel 11 (802.11b)	Distance: 3m
Model: GA20	
Manufacturer: Leader Digital-tech Weitong	

Note: Report No.:ATE20120037



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