

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
XTREAMER LIMITED

HDD Multimedia Player
Model No.: Xtreamer Sidewinder 2

FCC ID: ZYA-XS2

Prepared for : XTREAMER LIMITED
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Test Report Certification

Applicant : XTREAMER LIMITED
 Manufacturer : UNICORN INFORMATION SYSTEM CO., LTD
 EUT Description : HDD Multimedia Player
 (A) MODEL NO.: Xtreamer Sidewinder 2
 (B) SERIAL NO.: N/A
 (C) POWER SUPPLY: DC 12V(Adapter 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 : _____ August 25-September 7, 2011

Prepared by :

Apple Lv

(Engineer)

Approved & Authorized Signer :

James

(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	:	HDD Multimedia Player
Model Number	:	Xtreamer Sidewinder 2
Frequency Band	:	2412-2462MHz
Number of Channels	:	11
Antenna Gain	:	5dBi
Power Supply	:	DC 12V (Adapter input)
Adapter	:	Model number: ADS-24S-12 1224GPG Input: AC 100-240V; 50/60Hz 0.7A Output: DC 12V; 2.0A 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	:	XTREAMER LIMITED
Address	:	Unbo b/d 226-16, sukchon-dong, songpa-gu, Seoul, South Korea
Manufacturer	:	UNICORN INFORMATION SYSTEM CO.,LTD
Address	:	RM 509, Cell 3, Building A2, Hai Yun Hua Yuan. Block 48, Bao An Center, Shenzhen, China
Date of sample received	:	August 25, 2011
Date of Test	:	August 25-September 7, 2011

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

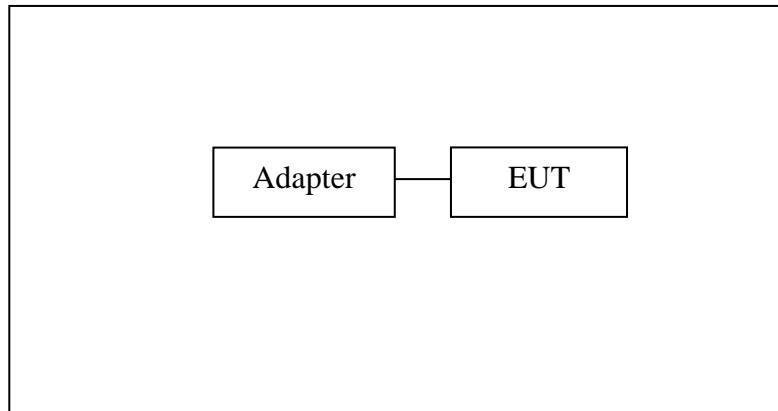


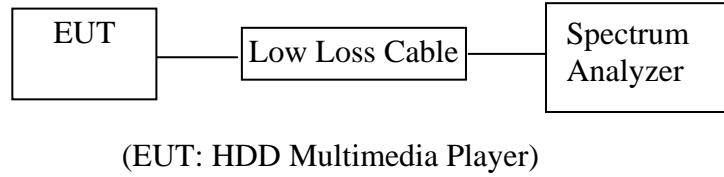
Figure 1 Setup: Transmitting mode

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. HDD Multimedia Player (EUT)

Model Number	:	Xtreamer Sidewinder 2
Serial Number	:	N/A
Manufacturer	:	XTREAMER LIMITED

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:	August 29, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	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	10.52	> 0.5MHz
Middle	2437	10.28	> 0.5MHz
High	2462	10.20	> 0.5MHz

The test was performed with 802.11g

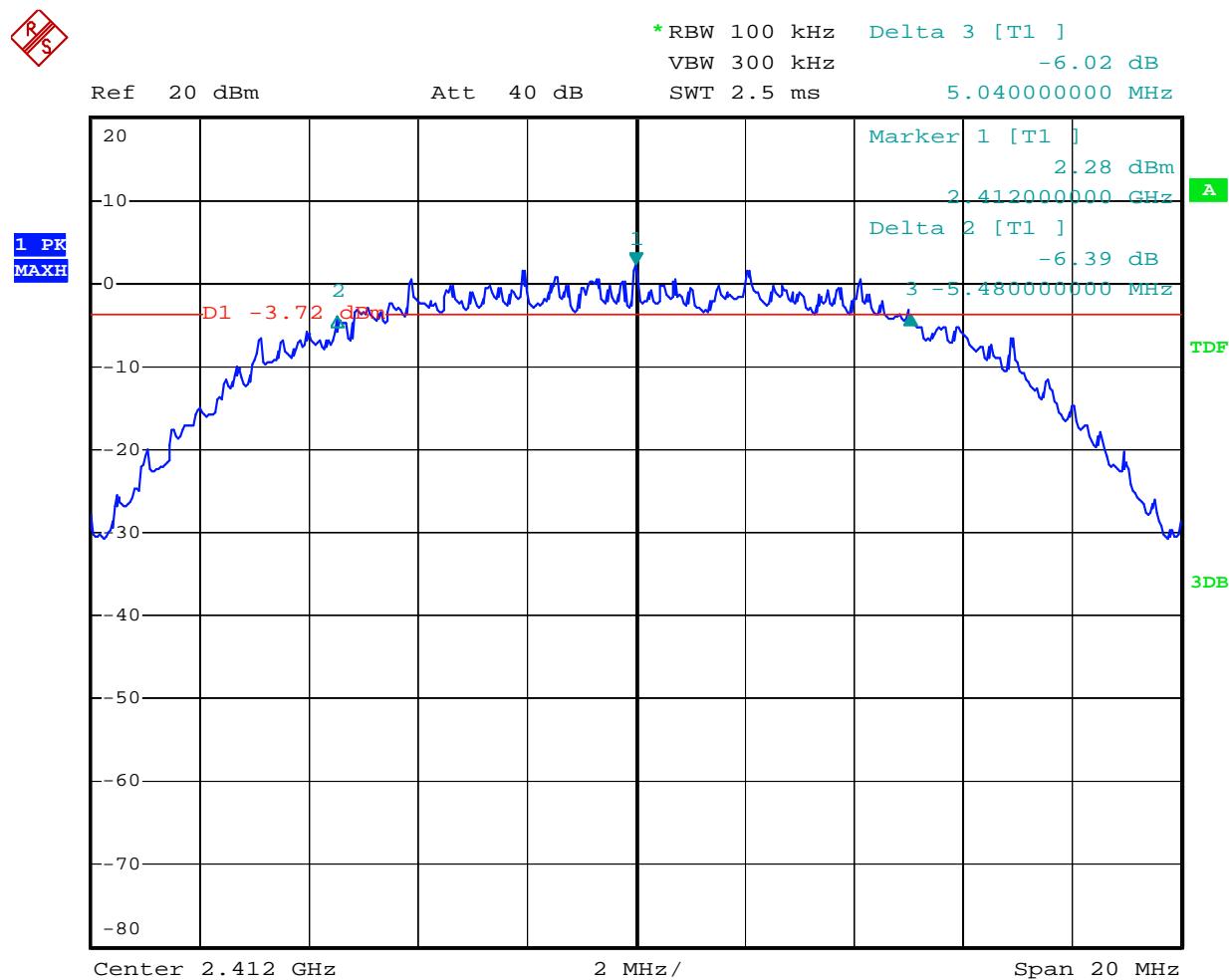
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	16.48	> 0.5MHz
Middle	2437	16.56	> 0.5MHz
High	2462	16.52	> 0.5MHz

The test was performed with 802.11n

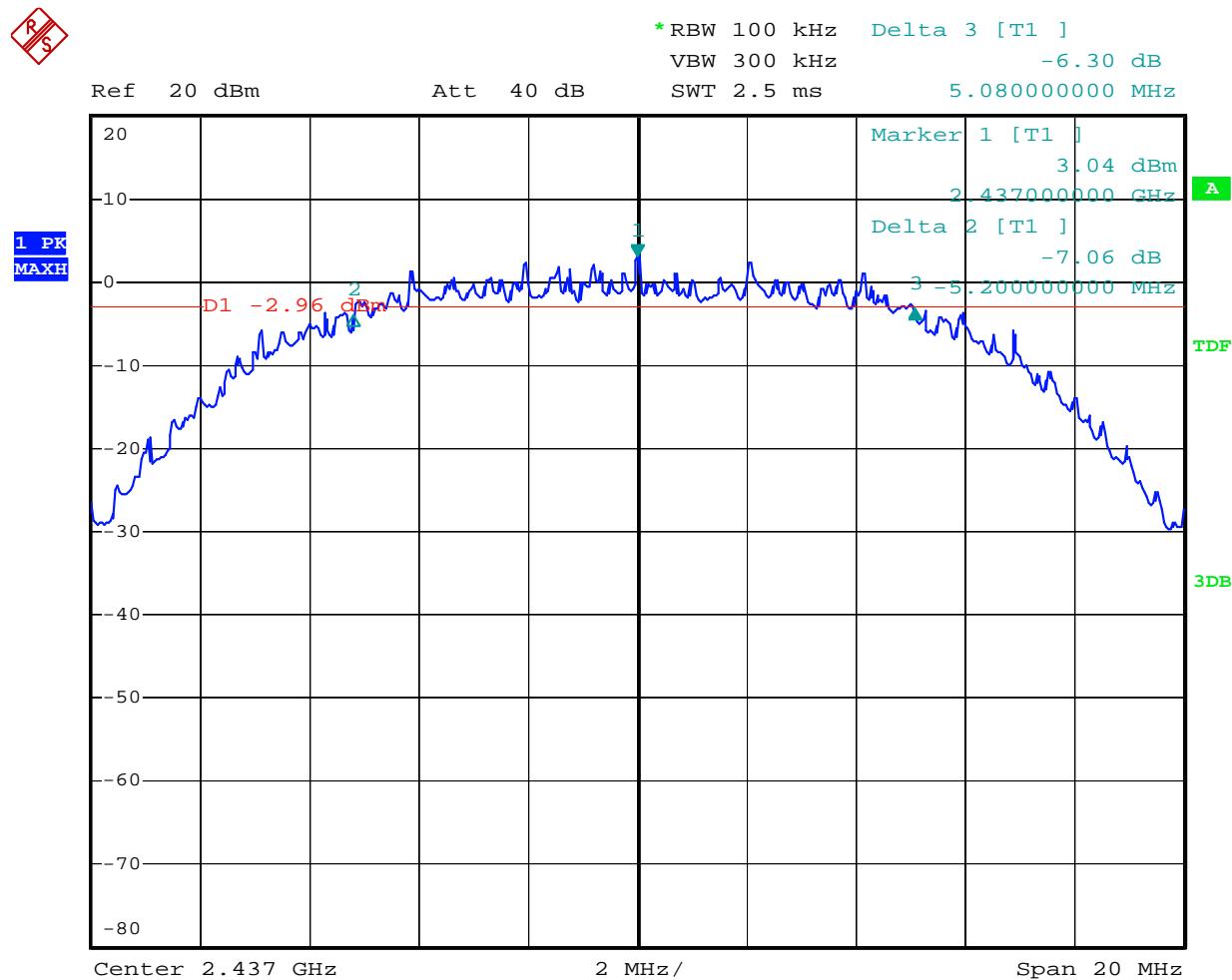
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	17.76	> 0.5MHz
Middle	2437	17.72	> 0.5MHz
High	2462	17.76	> 0.5MHz

The spectrum analyzer plots are attached as below.

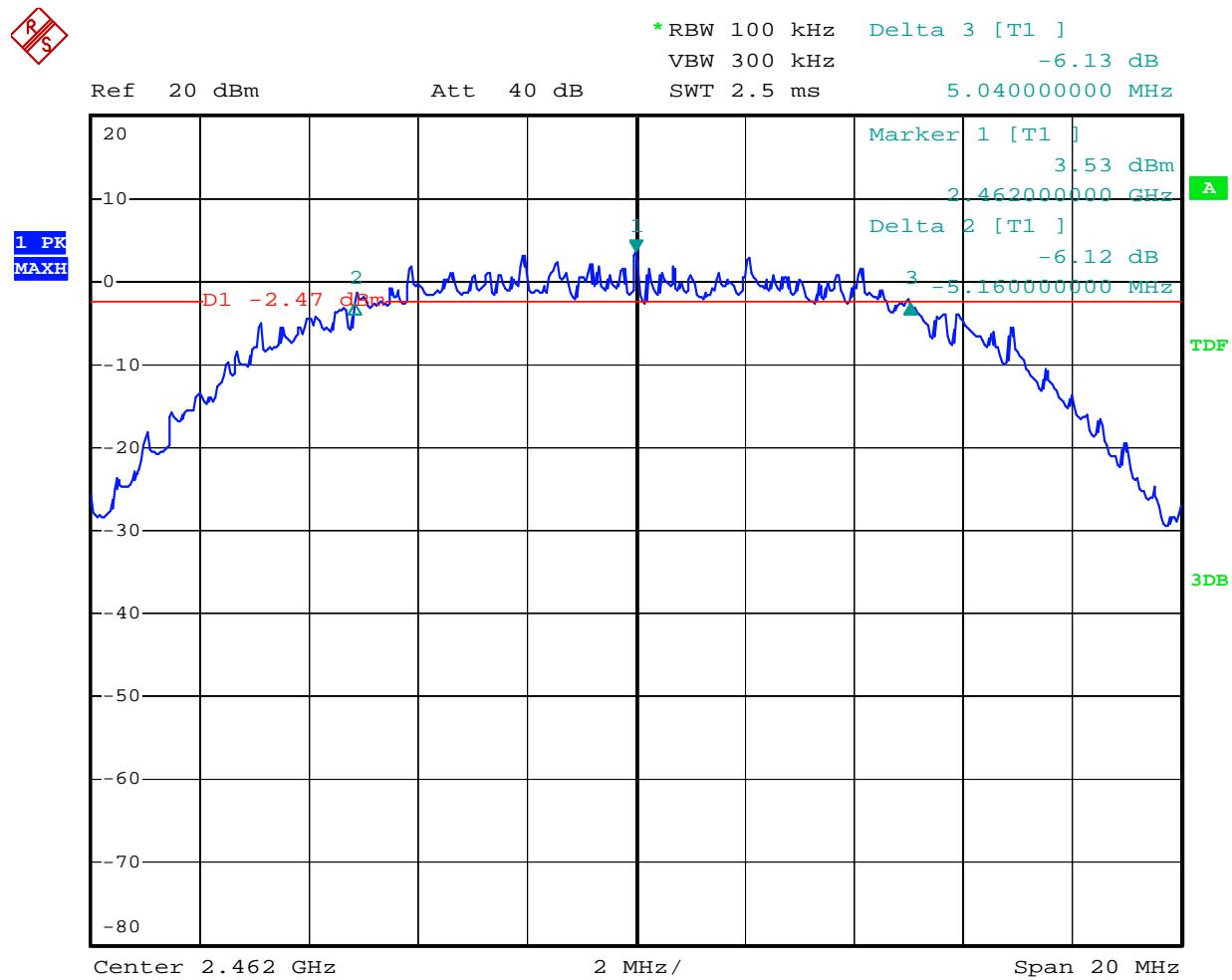
802.11b Channel Low 2412MHz



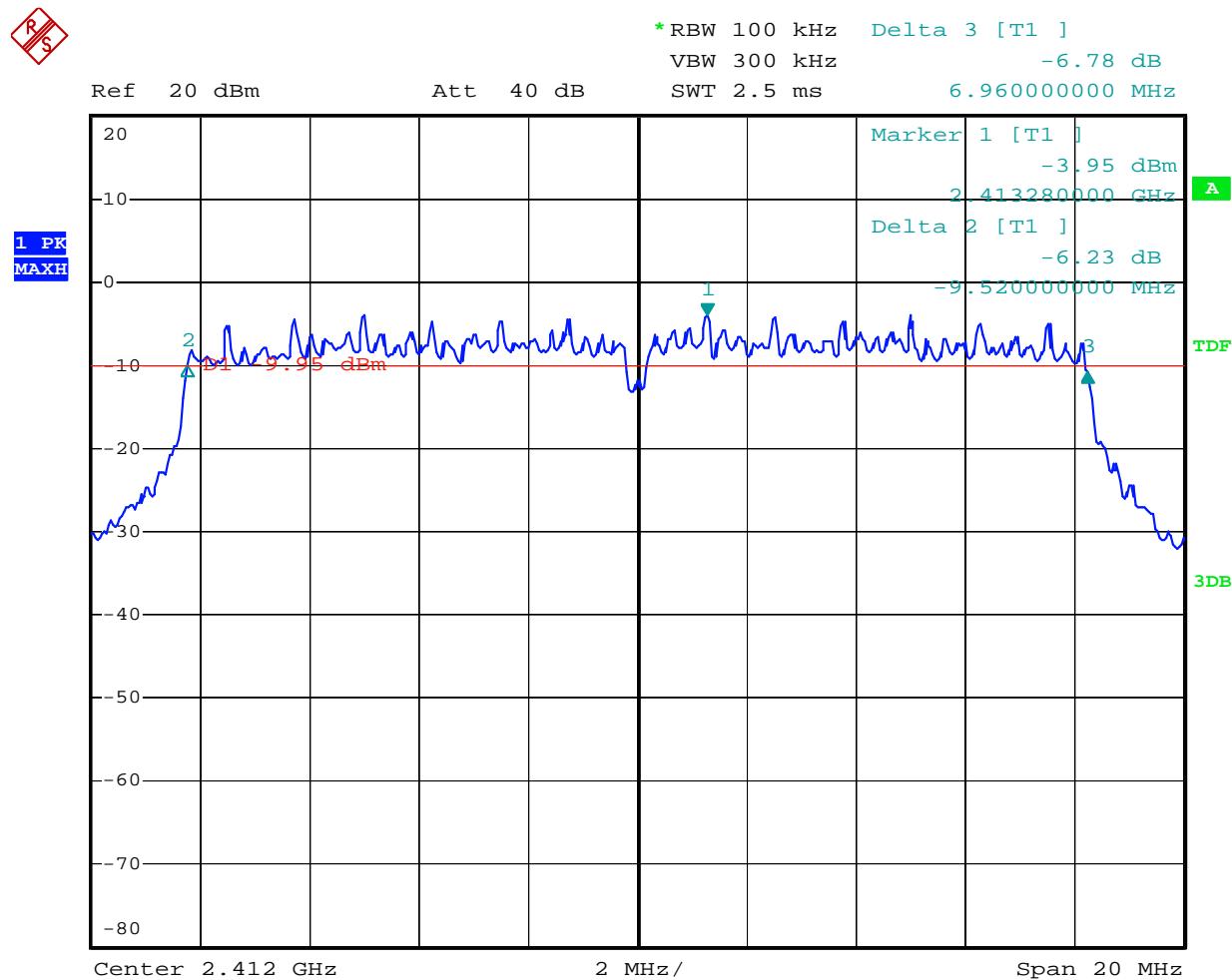
802.11b Channel Middle 2437MHz



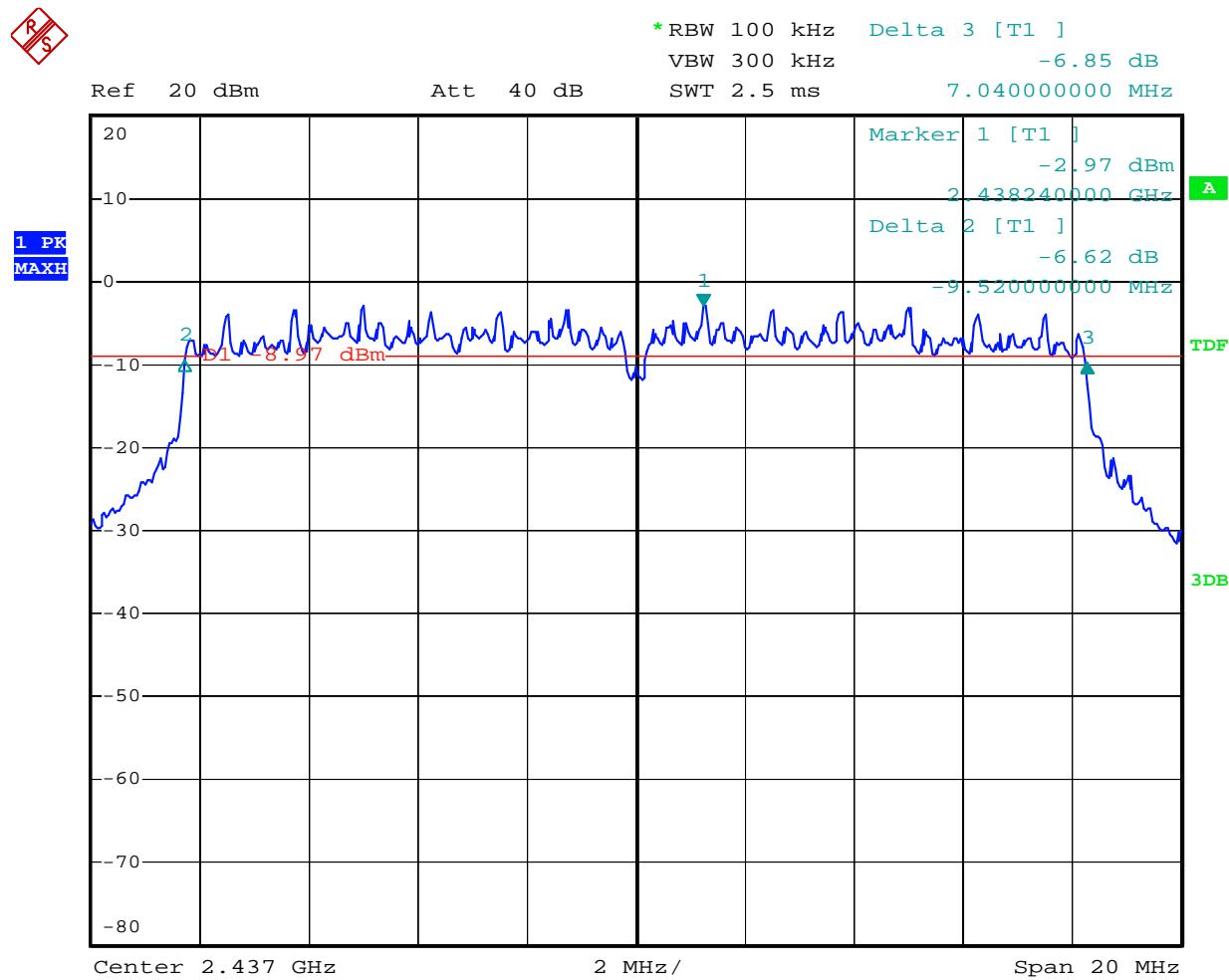
802.11b Channel High 2462MHz



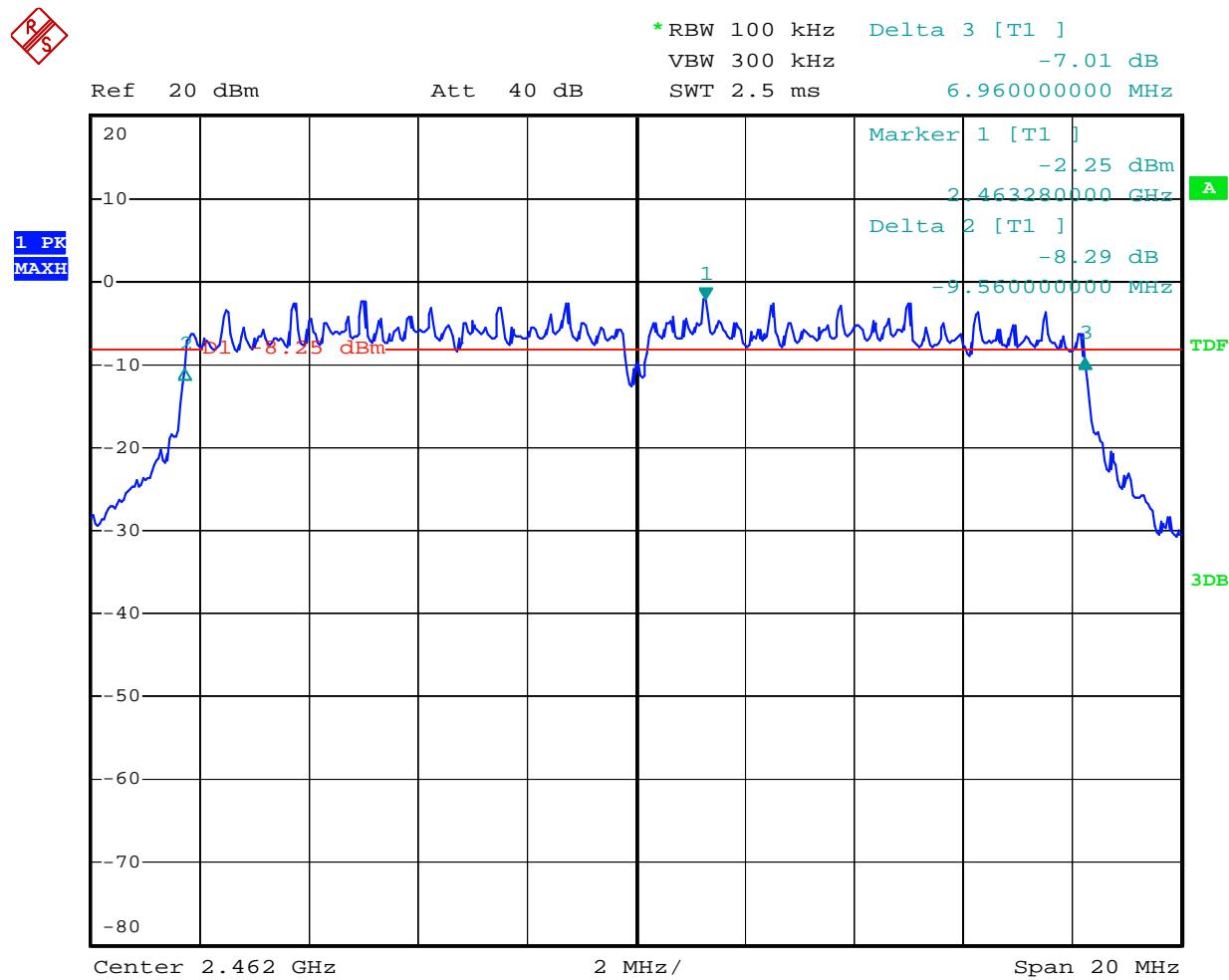
802.11g Channel Low 2412MHz



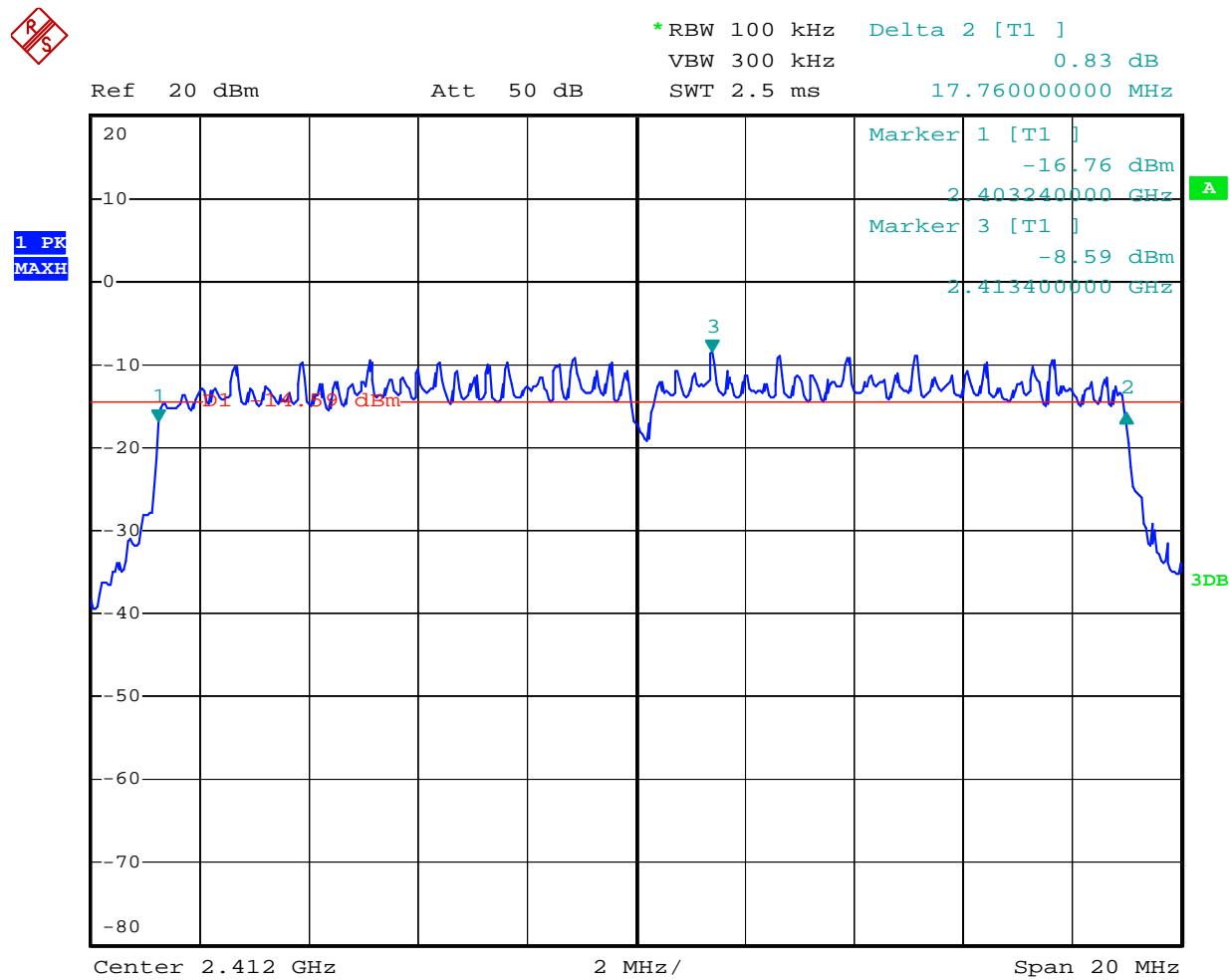
802.11g Channel Middle 2437MHz



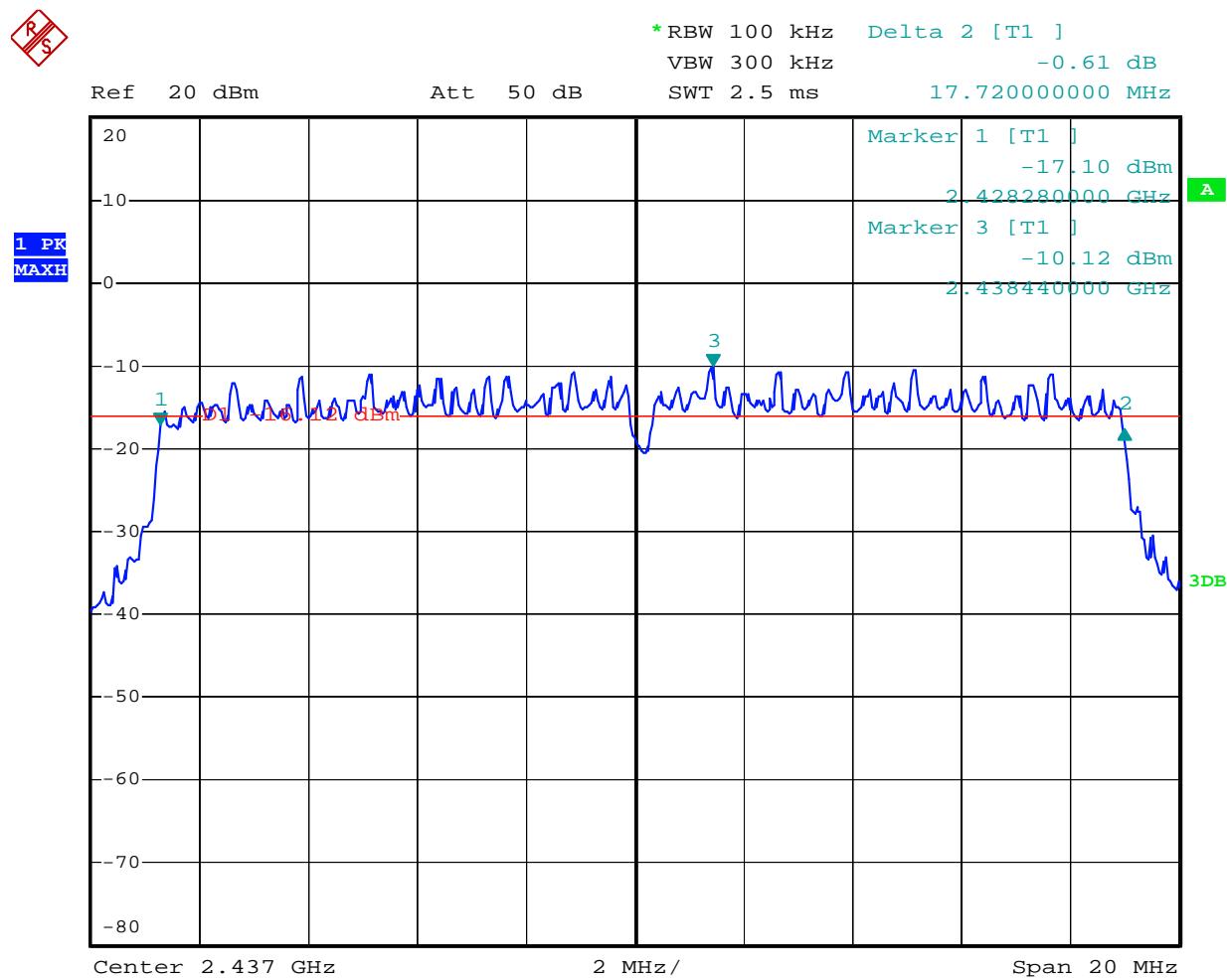
802.11g Channel High 2462MHz



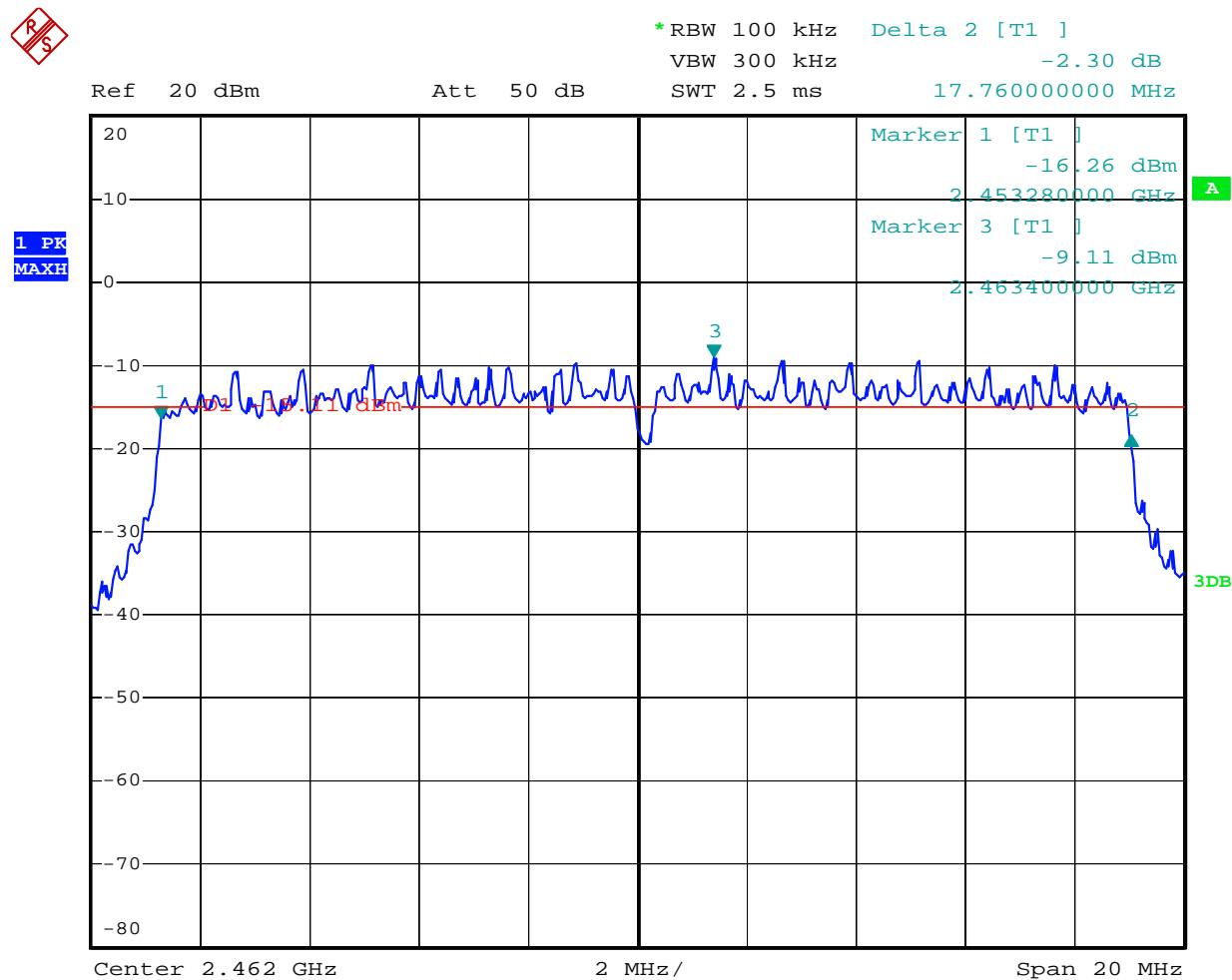
802.11n Channel Low 2412MHz



802.11n Channel Low 2437MHz

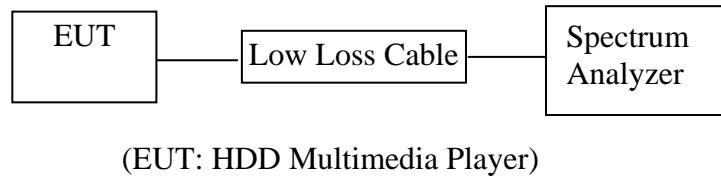


802.11n Channel Low 2462MHz



6. MAXIMUM PEAK OUTPUT POWER

6.1. Block Diagram of Test Setup



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. HDD Multimedia Player (EUT)

Model Number	:	Xtreamer Sidewinder 2
Serial Number	:	N/A
Manufacturer	:	XTREAMER LIMITED

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:	August 29, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	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	16.39	43.55	30 dBm / 1 W
Middle	2437	16.70	46.77	30 dBm / 1 W
High	2462	17.32	53.95	30 dBm / 1 W

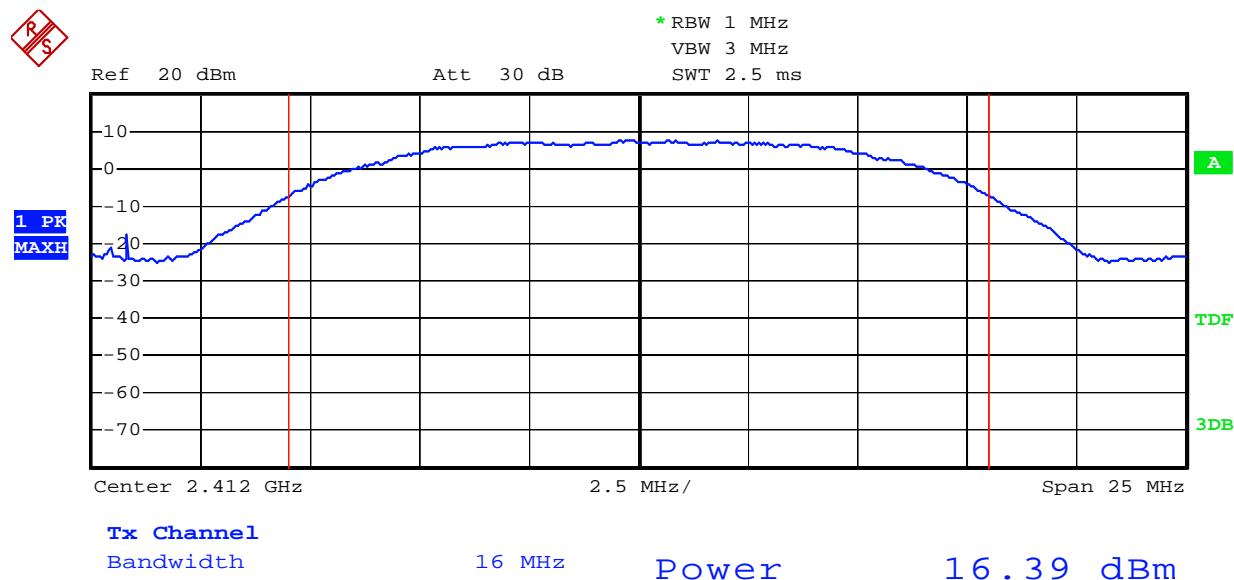
The test was performed with 802.11g

Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	14.34	27.16	30 dBm / 1 W
Middle	2437	15.28	33.73	30 dBm / 1 W
High	2462	16.50	44.67	30 dBm / 1 W

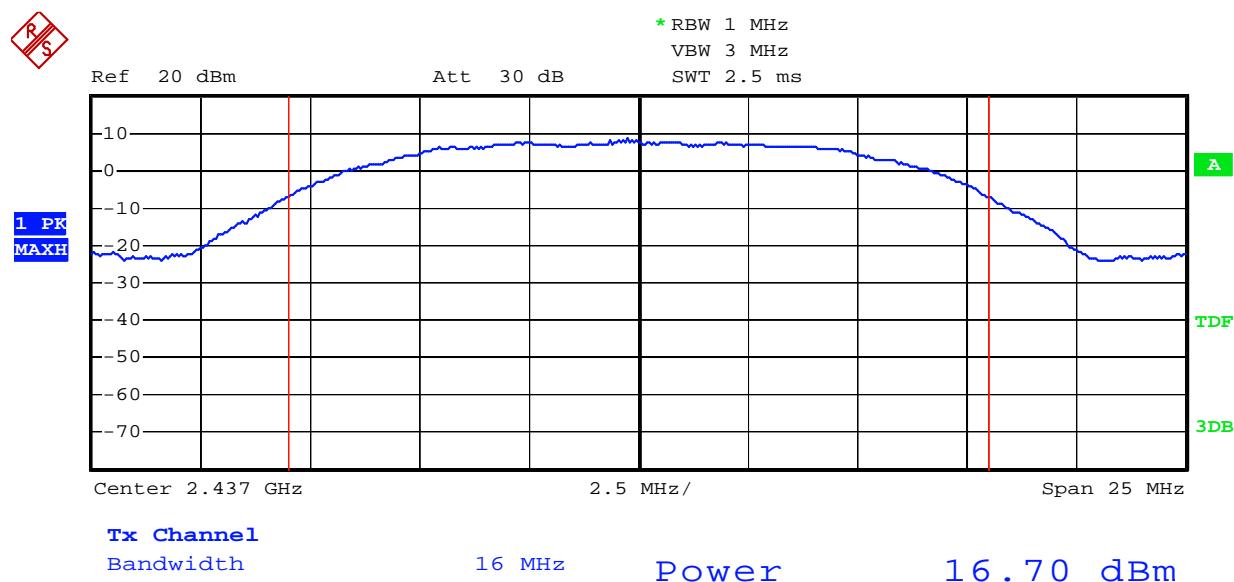
The test was performed with 802.11n				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	13.54	22.59	30 dBm / 1 W
Middle	2437	14.15	26.00	30 dBm / 1 W
High	2462	14.20	26.30	30 dBm / 1 W

The spectrum analyzer plots are attached as below.

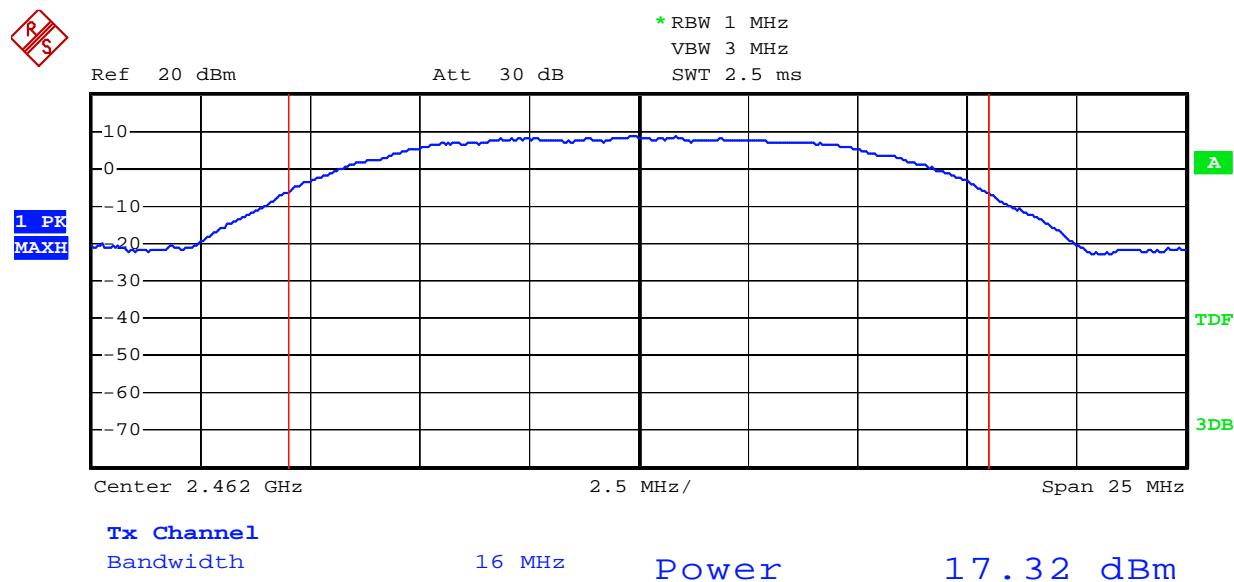
802.11b Channel Low 2412MHz



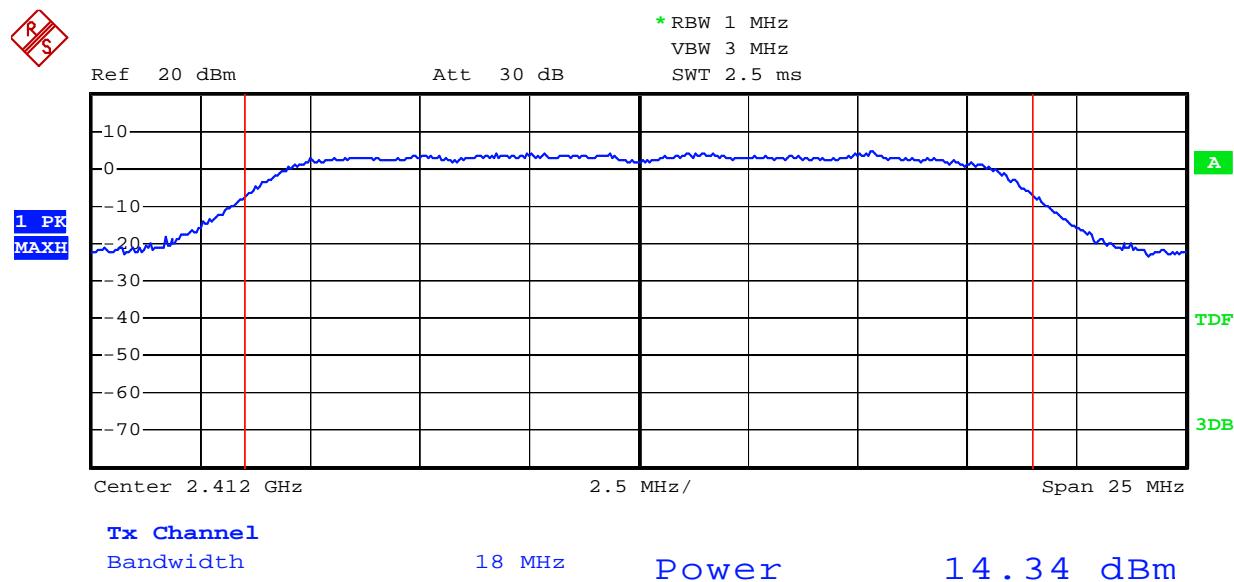
802.11b Channel Middle 2437MHz



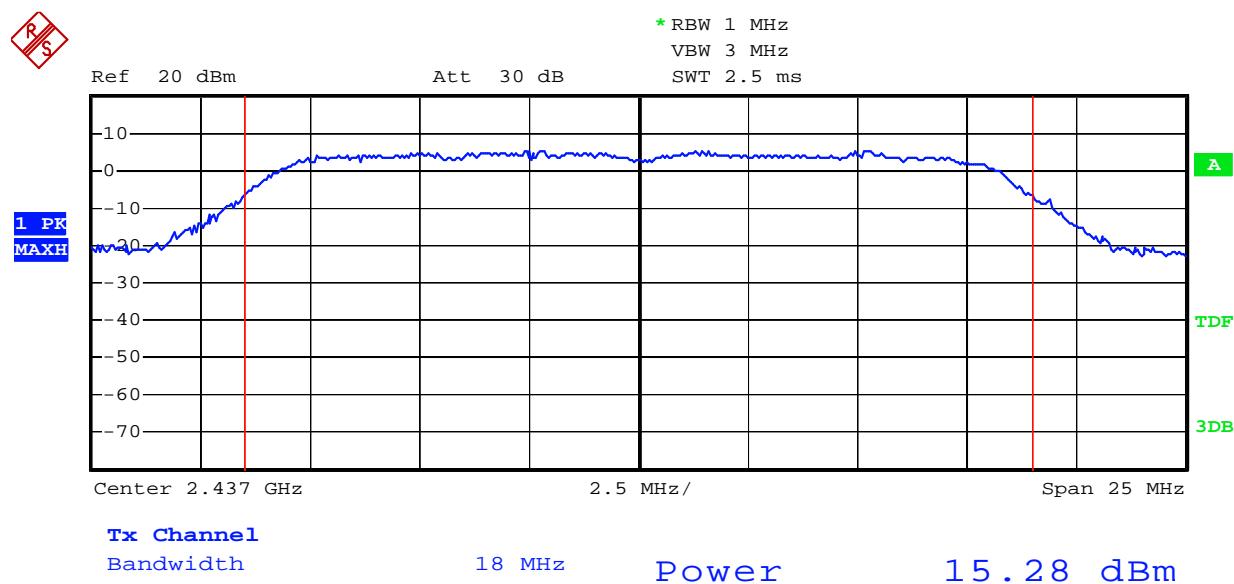
802.11b Channel High 2462MHz



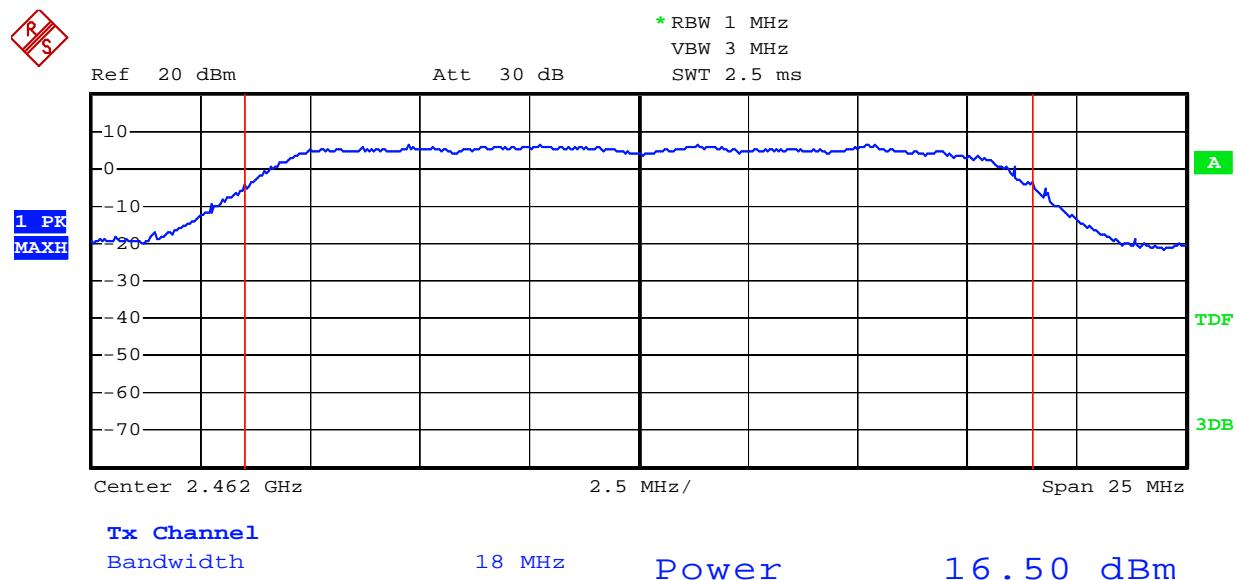
802.11g Channel Low 2412MHz



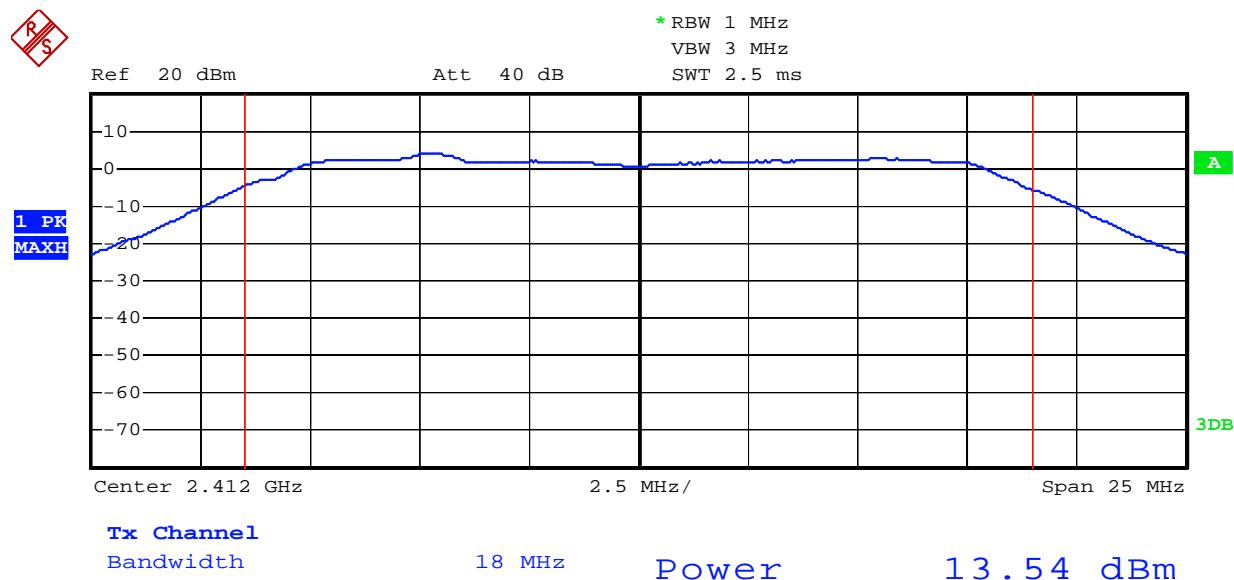
802.11g Channel Middle 2437MHz



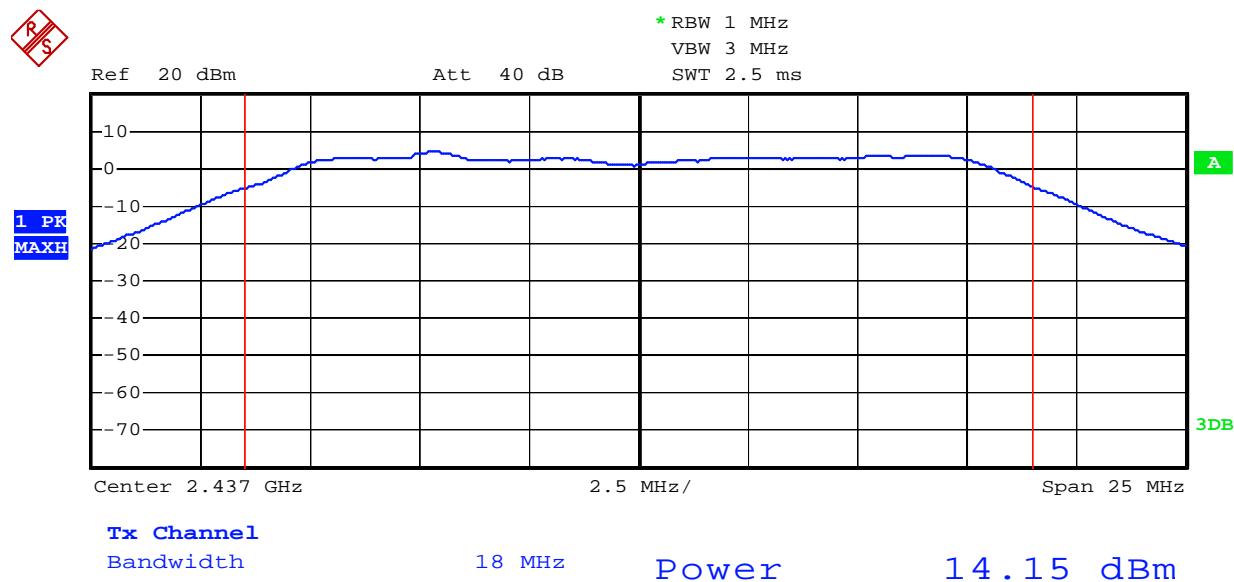
802.11g Channel High 2462MHz



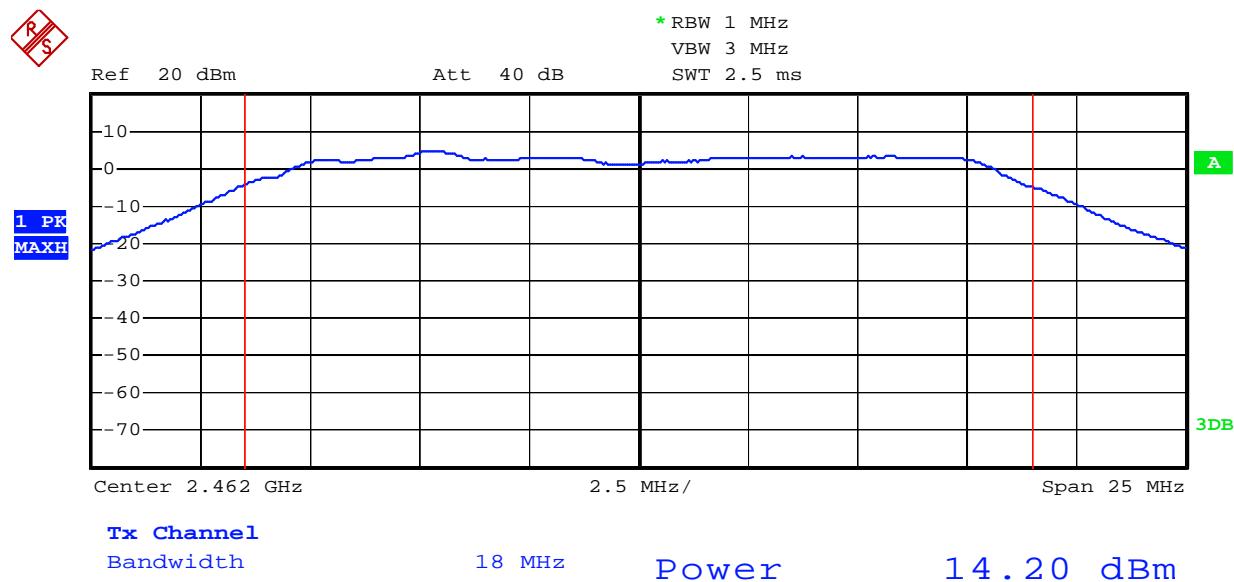
802.11n Channel High 2412MHz



802.11n Channel High 2437MHz

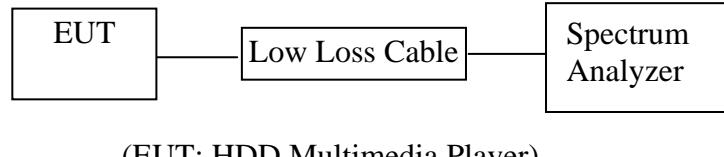


802.11n Channel High 2462MHz



7. POWER SPECTRAL DENSITY MEASUREMENT

7.1. Block Diagram of Test Setup



(EUT: HDD Multimedia Player)

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. HDD Multimedia Player (EUT)

Model Number	:	Xtreamer Sidewinder 2
Serial Number	:	N/A
Manufacturer	:	XTREAMER LIMITED

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:	August 29, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	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	-0.26	8 dBm
Middle	2437	-2.03	8 dBm
High	2462	-1.58	8 dBm

The test was performed with 802.11g

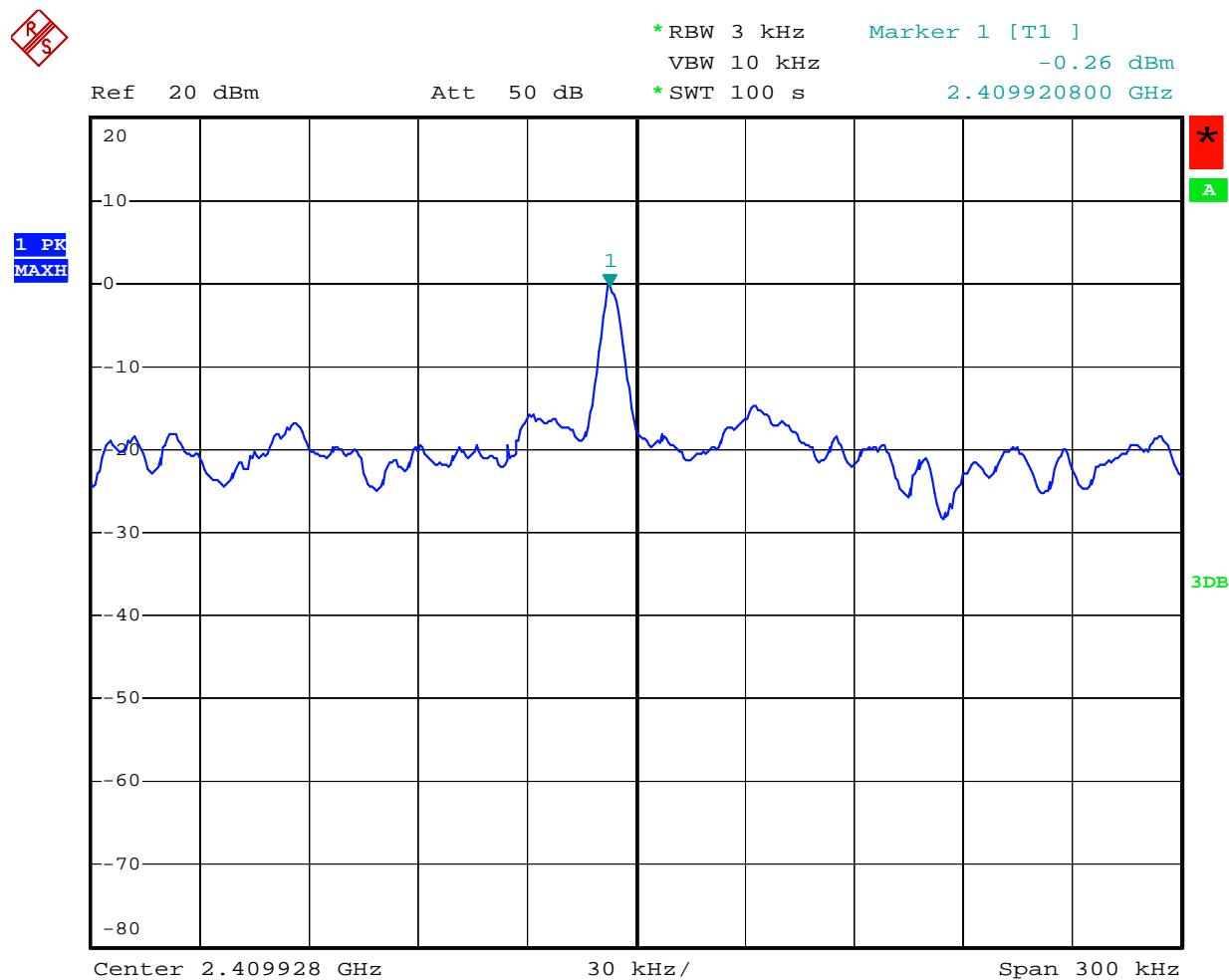
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-24.51	8 dBm
Middle	2437	-22.73	8 dBm
High	2462	-25.52	8 dBm

The test was performed with 802.11n

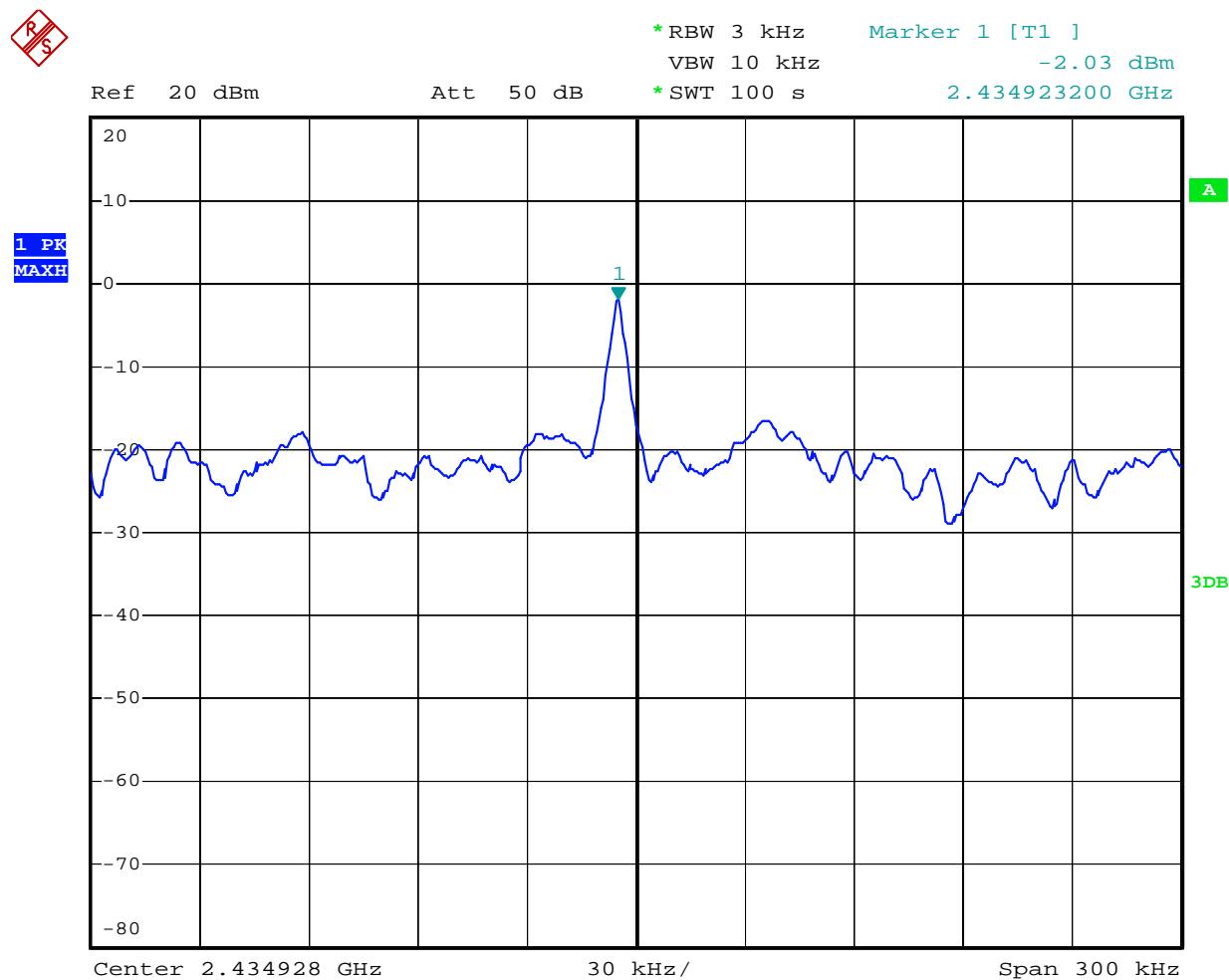
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-24.06	8 dBm
Middle	2437	-26.16	8 dBm
High	2462	-25.30	8 dBm

The spectrum analyzer plots are attached as below.

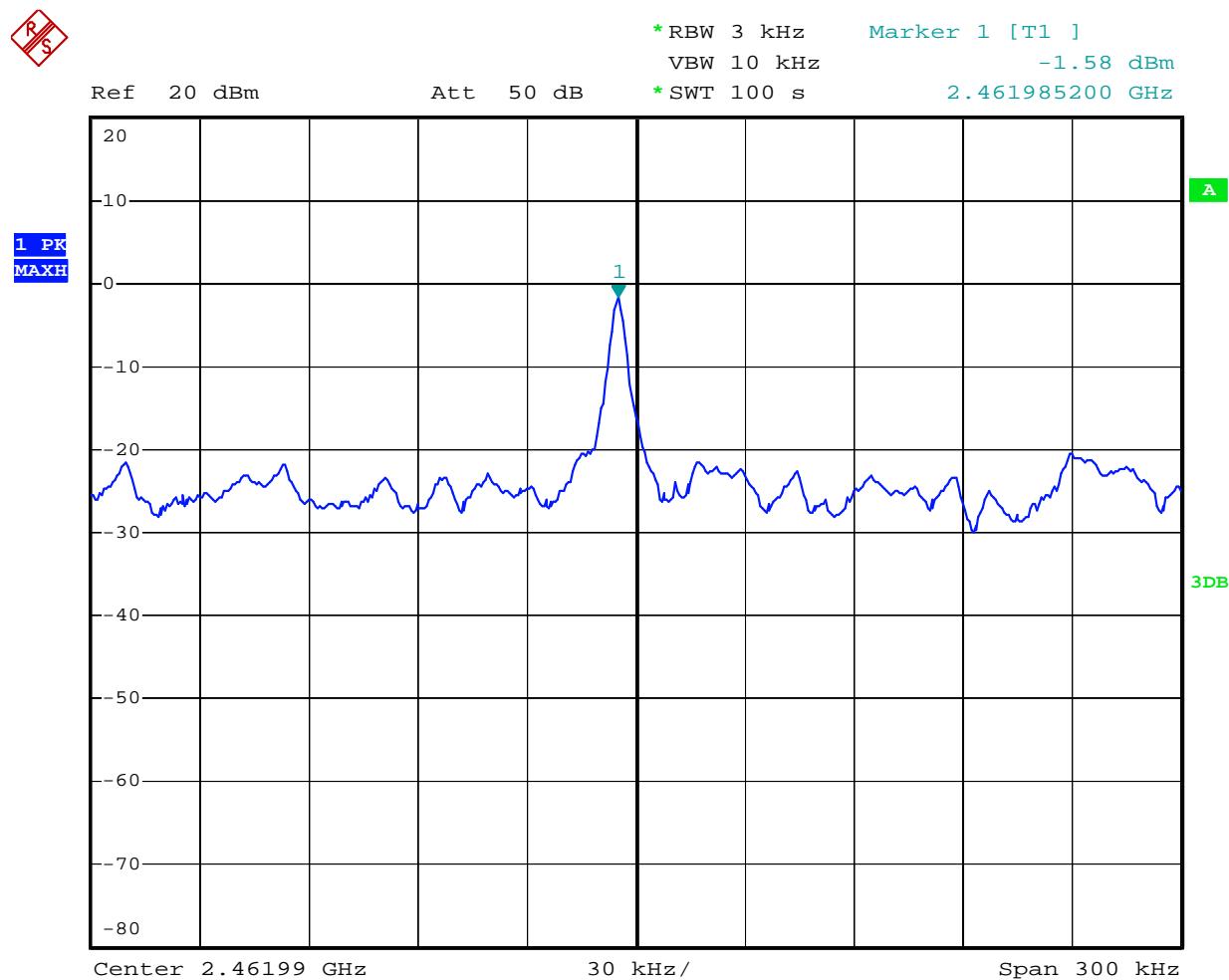
802.11b Channel Low 2412MHz



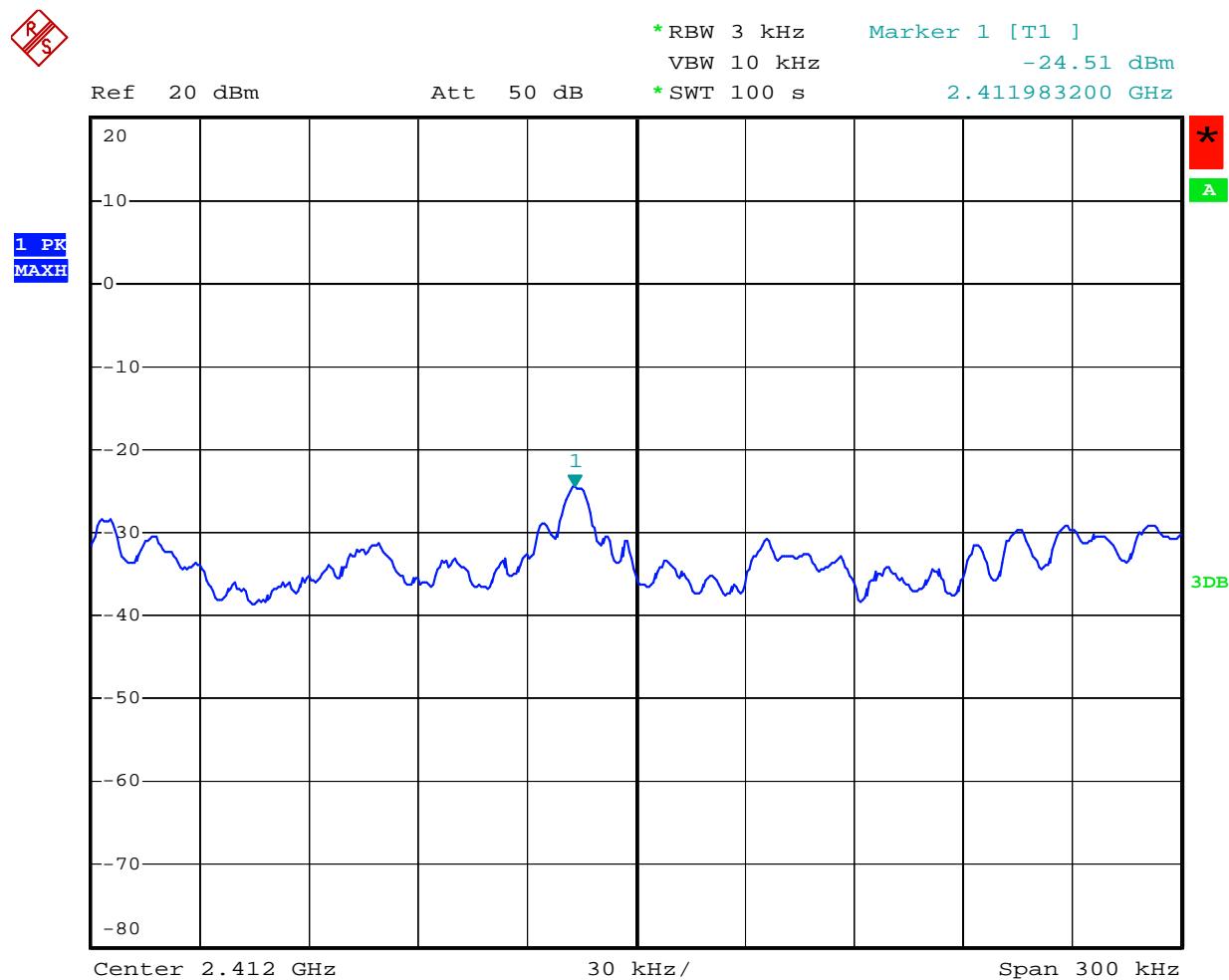
802.11b Channel Middle 2437MHz



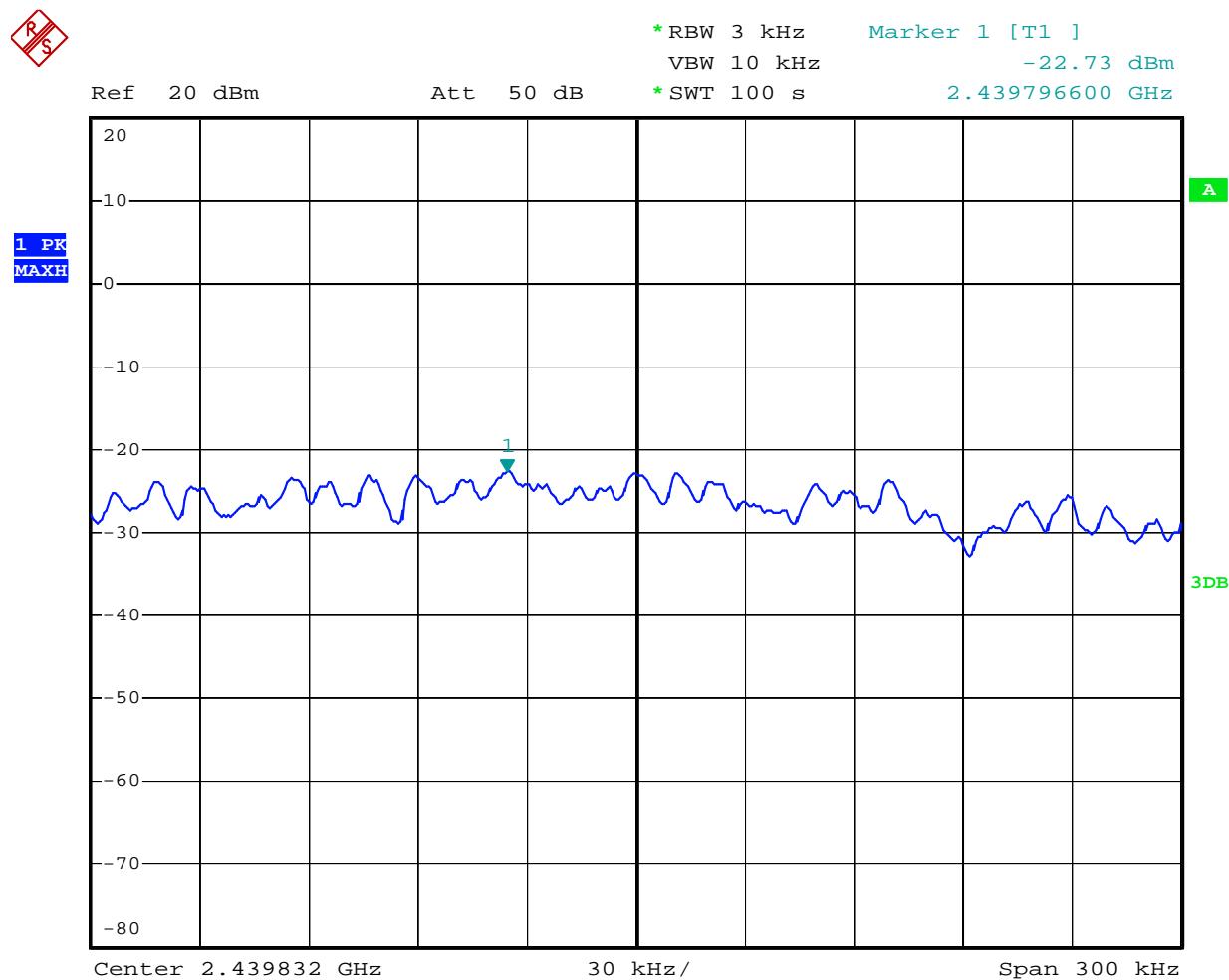
802.11b Channel High 2462MHz



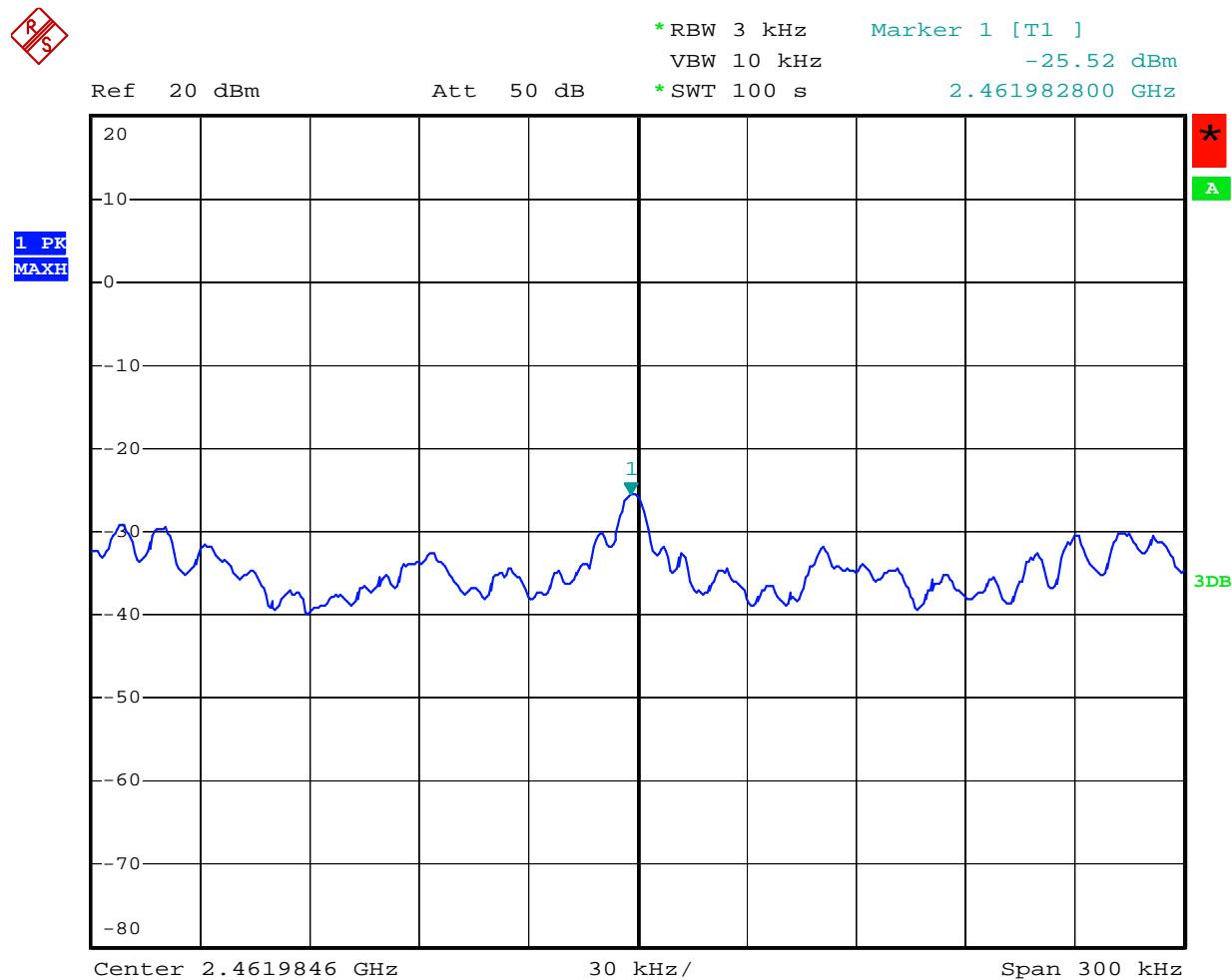
802.11g Channel Low 2412MHz



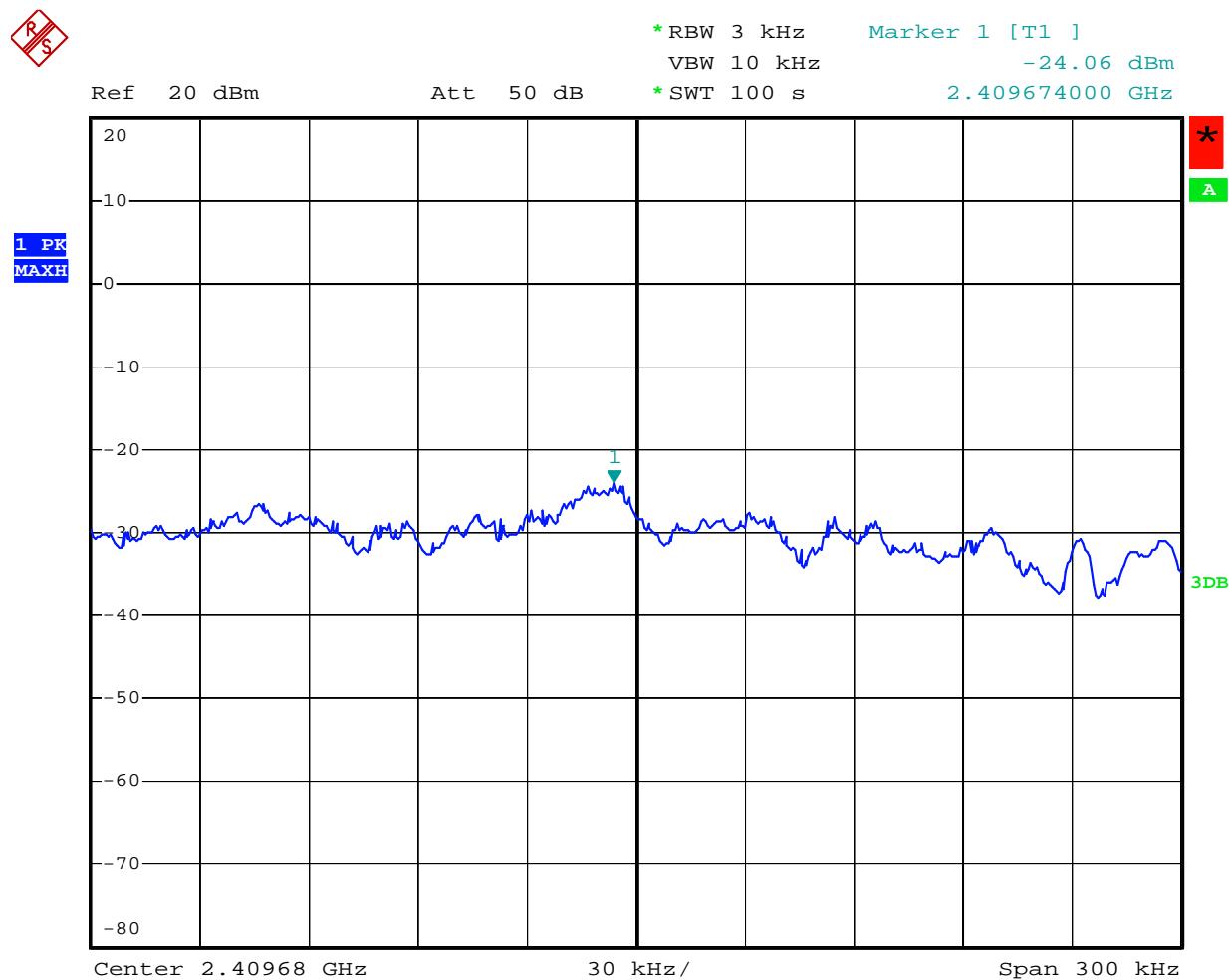
802.11g Channel Middle 2437MHz



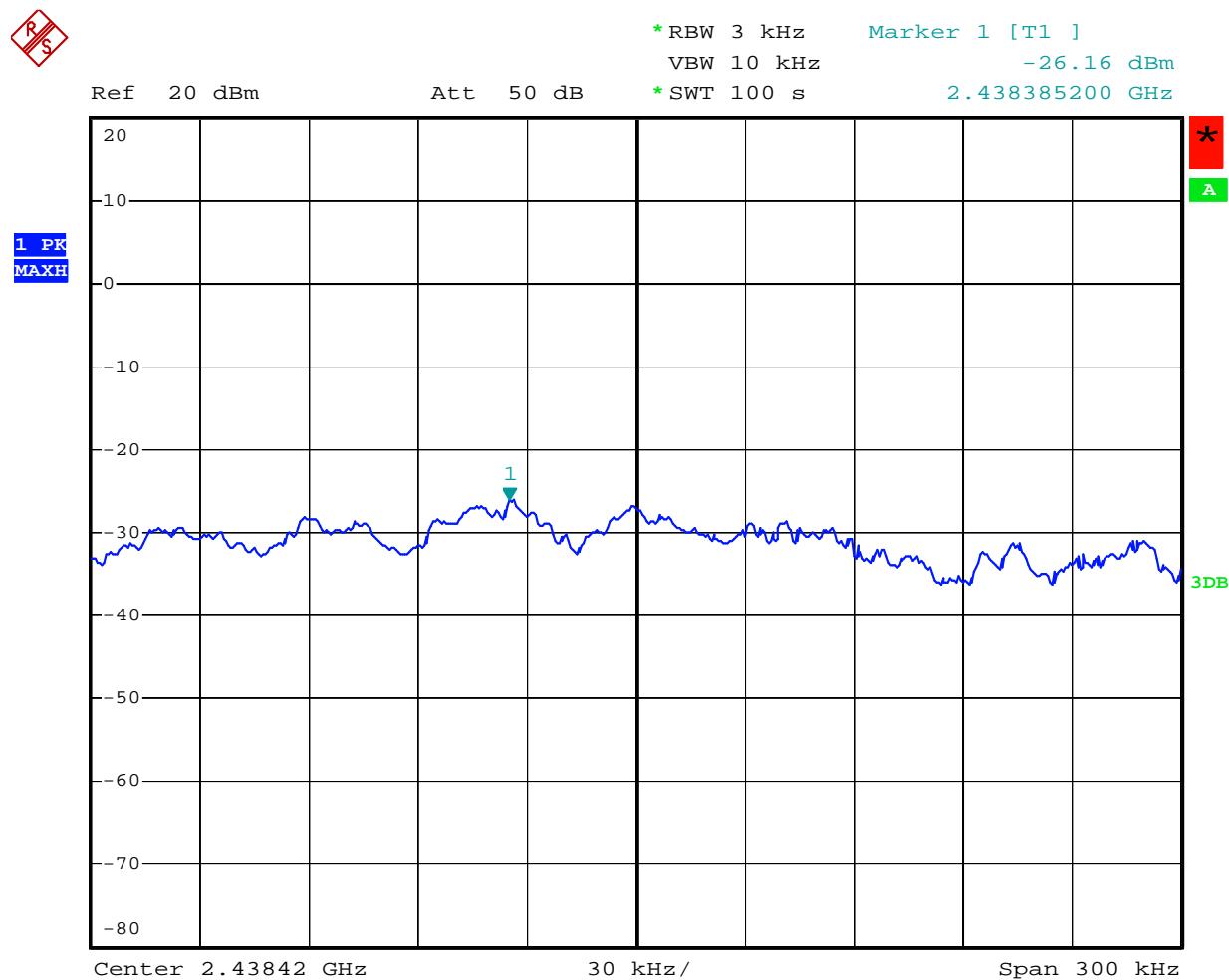
802.11g Channel High 2462MHz



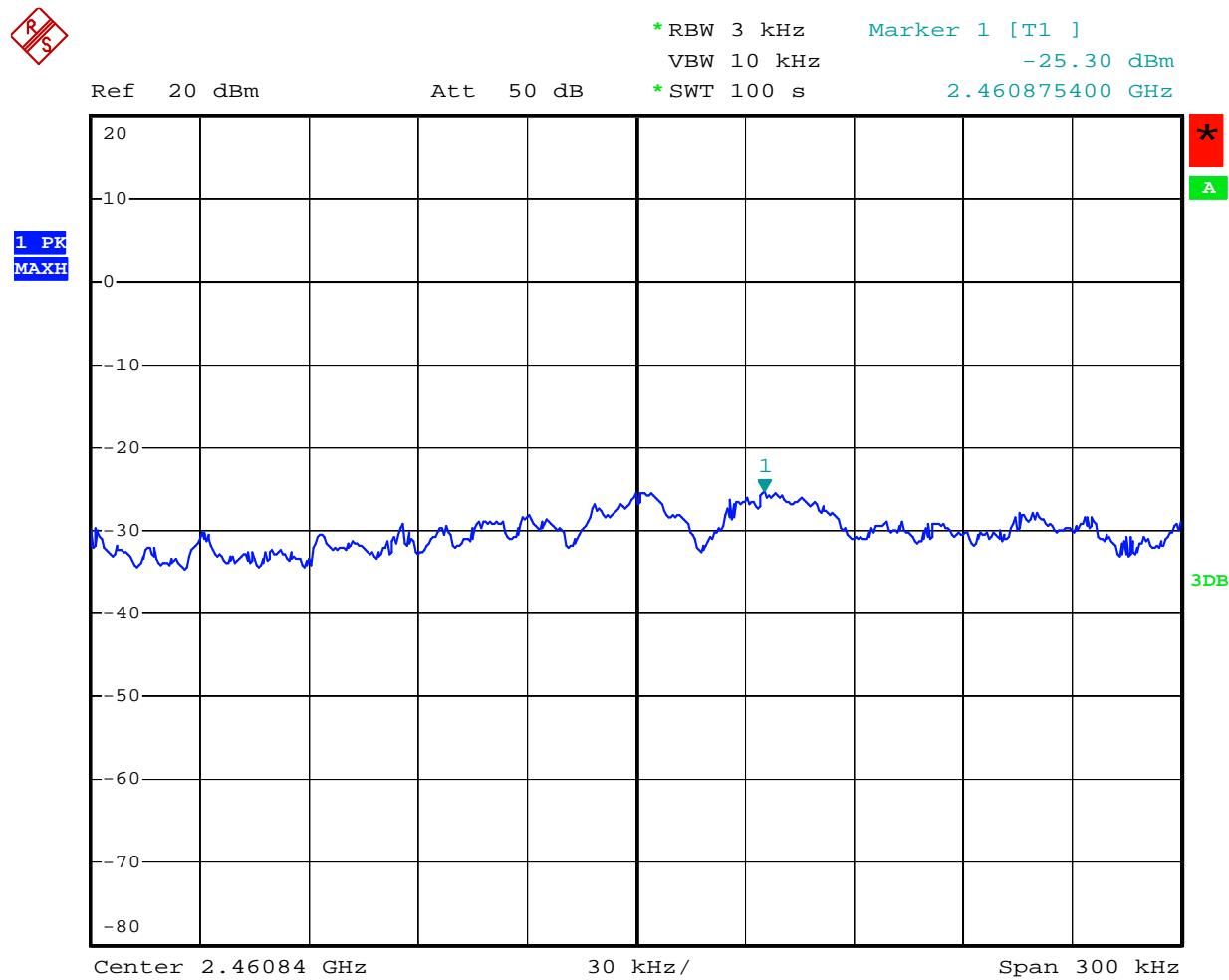
802.11n Channel High 2412MHz



802.11n Channel High 2437MHz



802.11n Channel High 2462MHz



8. BAND EDGE COMPLIANCE TEST

8.1. Block Diagram of Test Setup



(EUT: HDD Multimedia Player)

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. HDD Multimedia Player (EUT)

Model Number	:	Xtreamer Sidewinder 2
Serial Number	:	N/A
Manufacturer	:	XTREAMER LIMITED

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:	August 29, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	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	29.82	> 20dBc
2462	40.57	> 20dBc

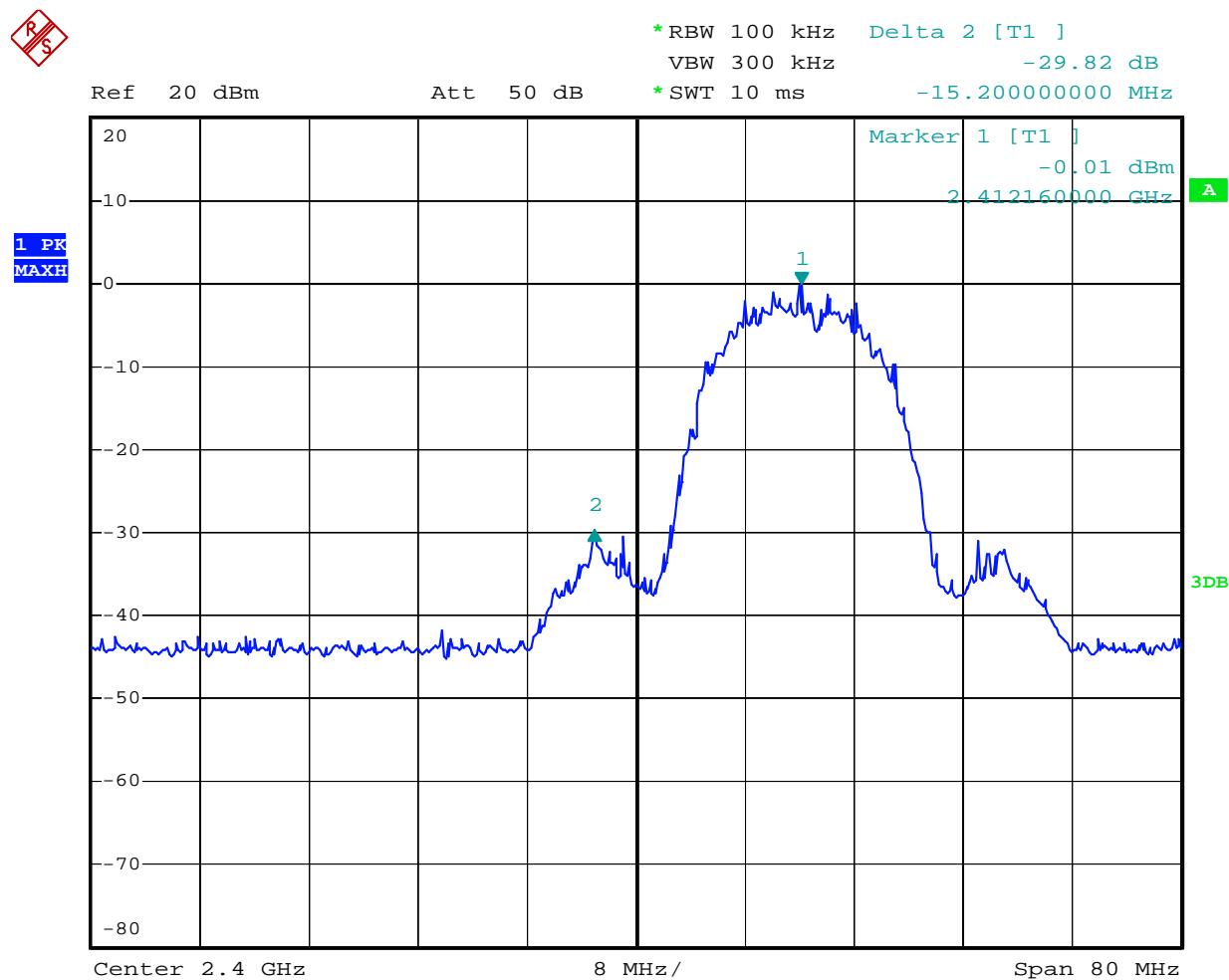
The test was performed with 802.11g

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	25.79	> 20dBc
2462	37.93	> 20dBc

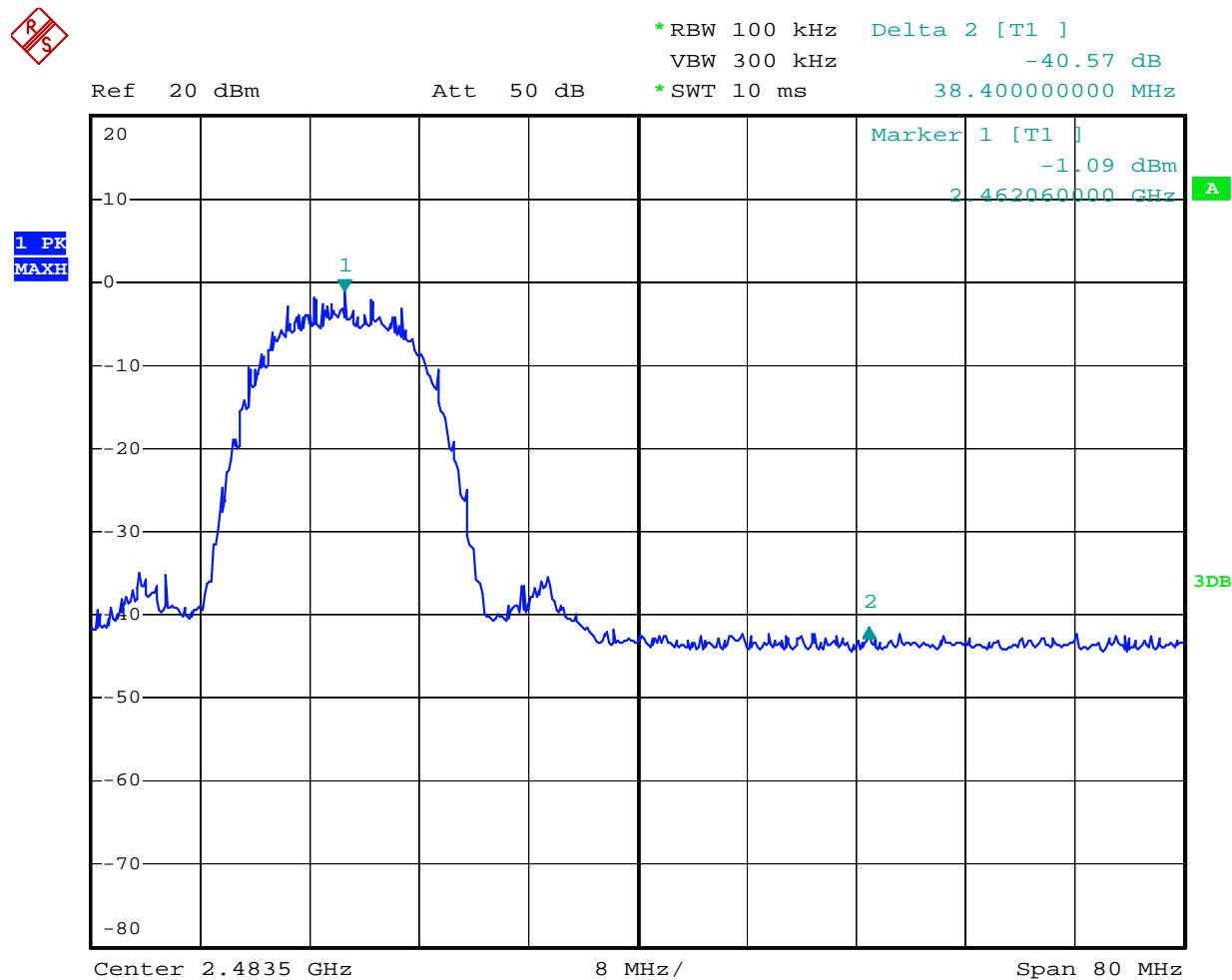
The test was performed with 802.11n

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	32.45	> 20dBc
2462	32.76	> 20dBc

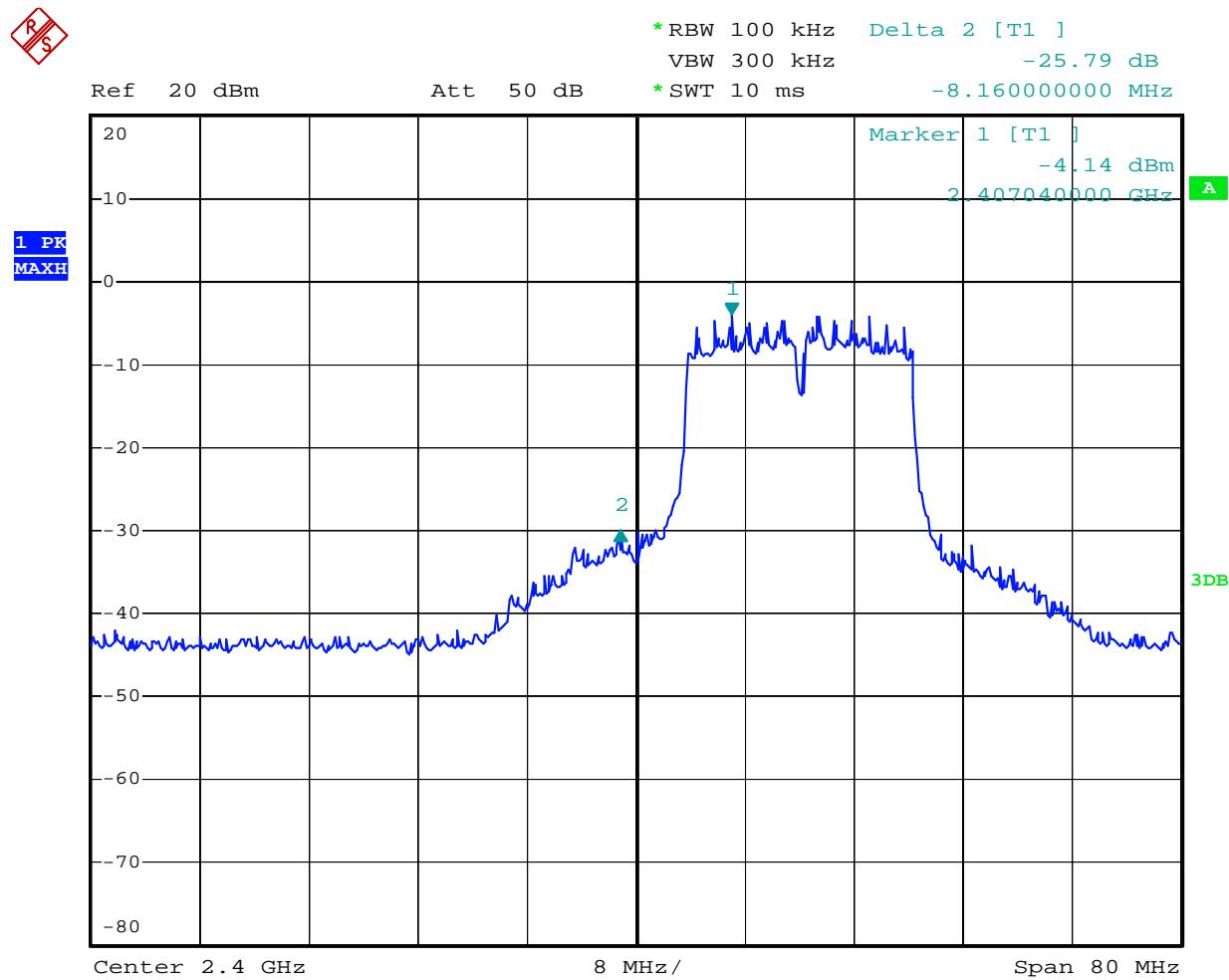
802.11b Channel Low 2412MHz



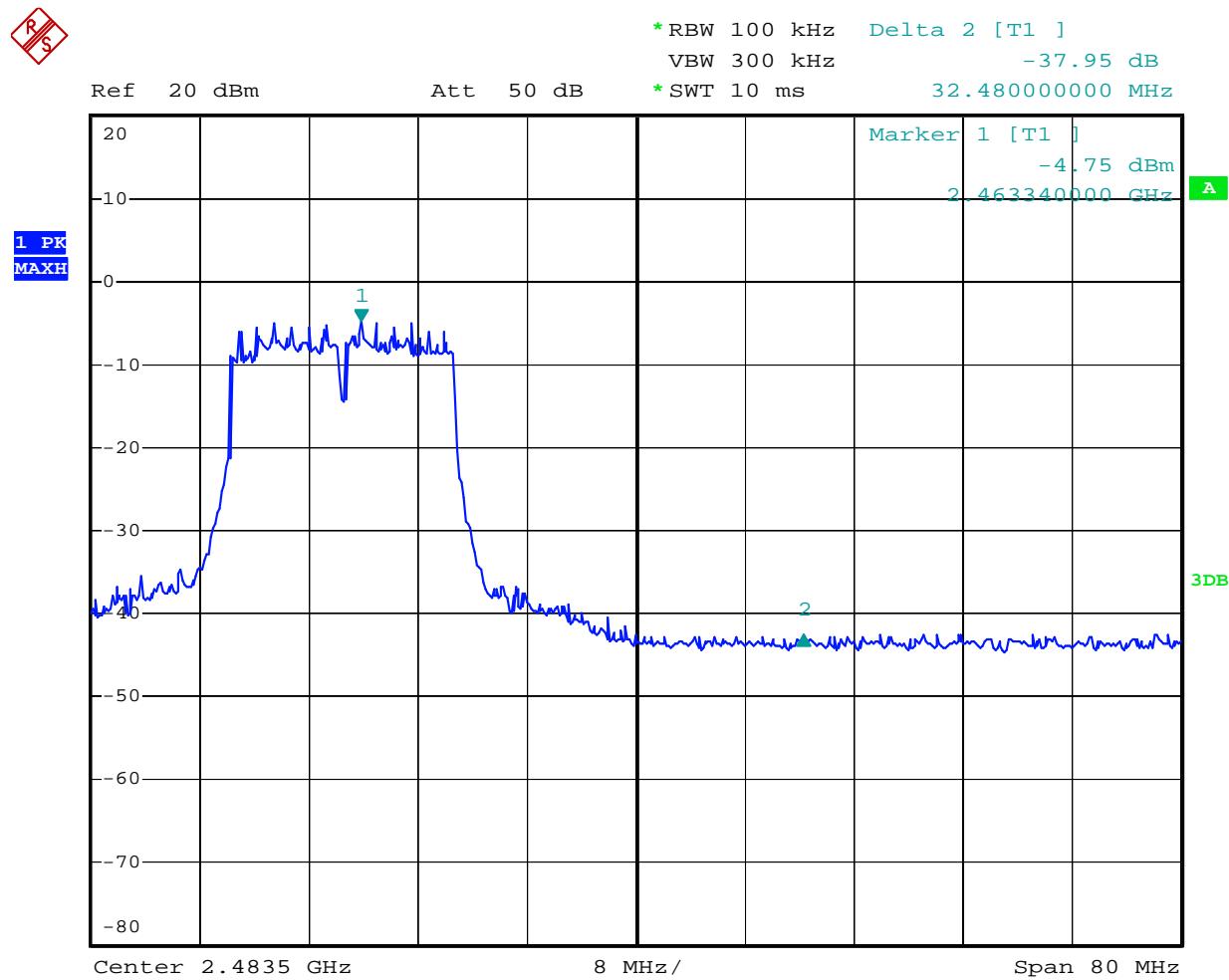
802.11b Channel High 2462MHz



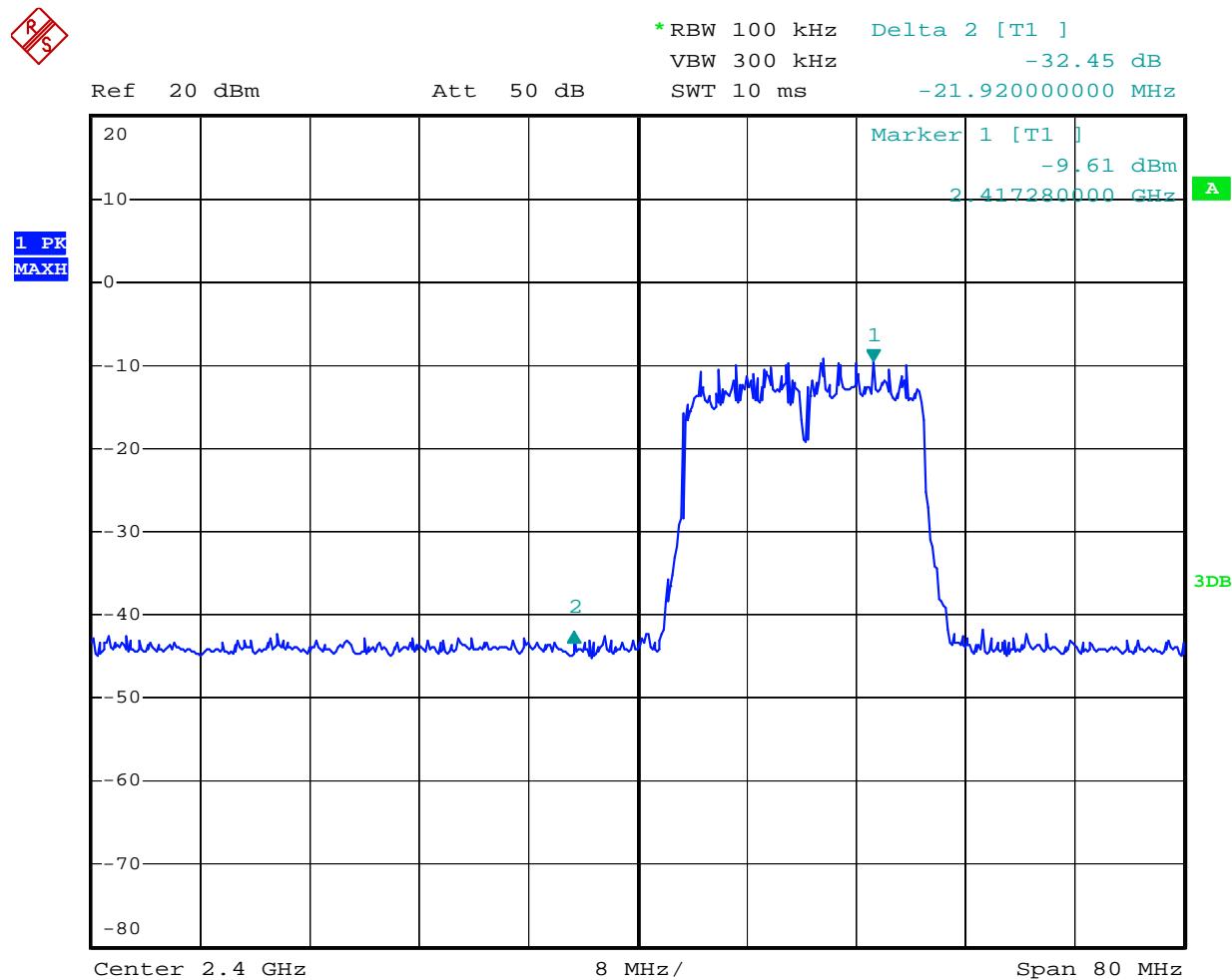
802.11g Channel Low 2412MHz



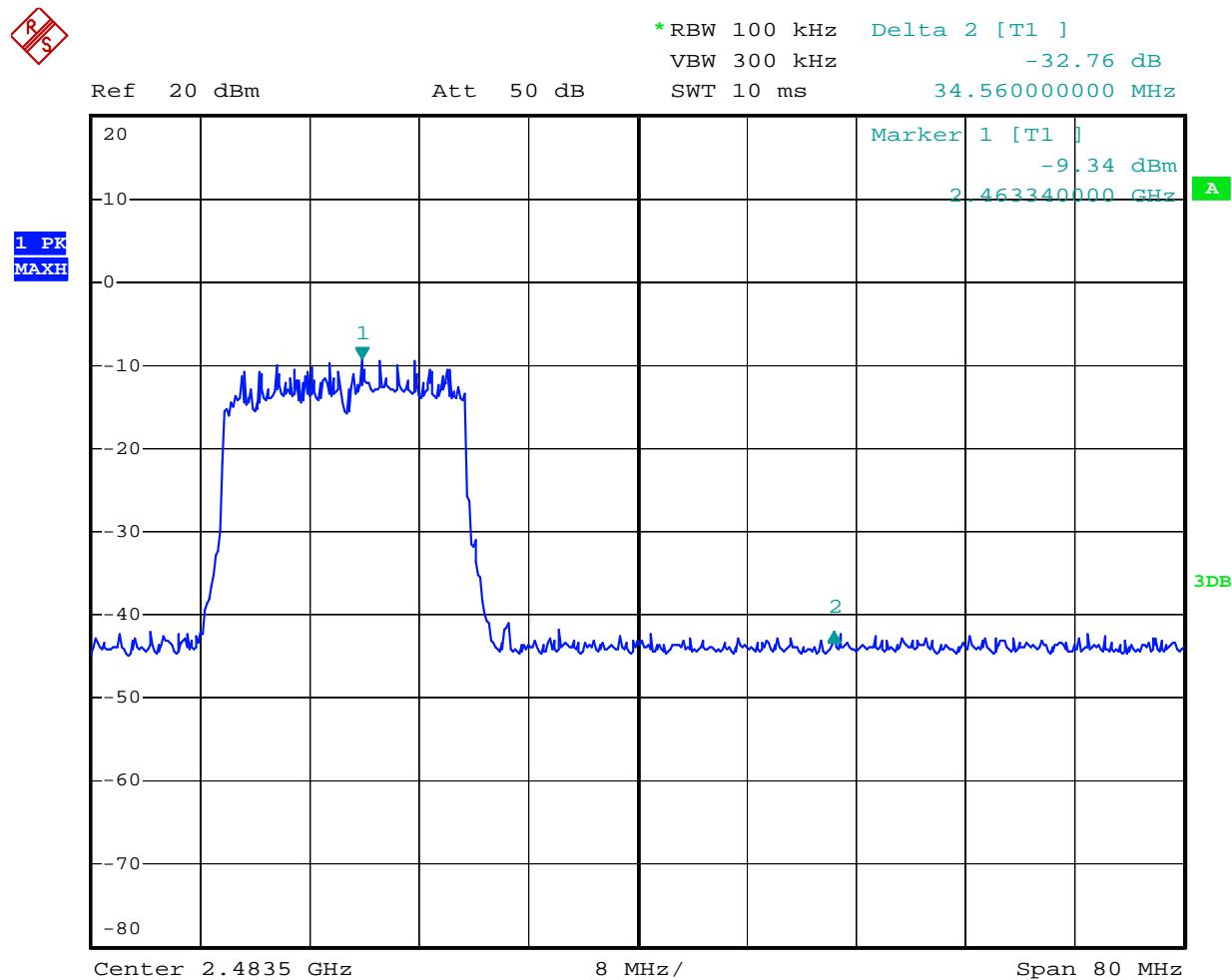
802.11g Channel High 2462MHz



802.11n Channel High 2412MHz



802.11n Channel High 2462MHz



Radiated Band Edge Result

Date of Test:	September 3, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel Low 2412MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ 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:	September 3, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	Power Supply:	AC 120V/60Hz
Test Mode:	802.11b Channel High 2462MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ 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:	September 3, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel Low 2412MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ 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:	September 3, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	Power Supply:	AC 120V/60Hz
Test Mode:	802.11g Channel High 2462MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ 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:	September 3, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n Channel Low 2412MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ 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:	September 3, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	Power Supply:	AC 120V/60Hz
Test Mode:	802.11n Channel High 2462MHz	Test Engineer:	Pei

Frequency (MHz)	Reading(dB μ V/m)		Factor(dB) Corr.	Result(dB μ V/m)		Limit(dB μ 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:

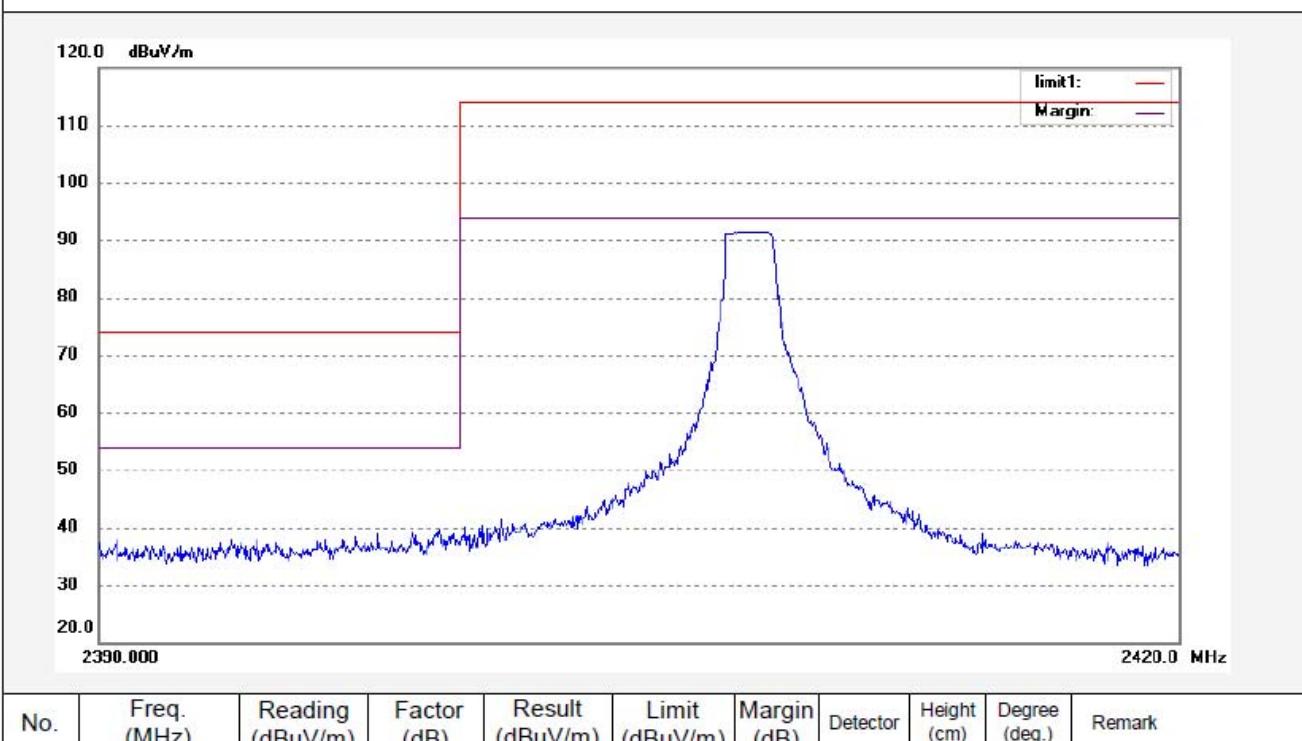
$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$
3. Display the measurement of peak values.


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

Job No.:	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/03
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 10:33:11
EUT: HDD multimedia player	Engineer Signature: Pei
Mode: TX Channel 1 (802.11b)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	



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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Job No.:

Polarization: Vertical

Standard: FCC Part 15 PEAK 2.4G

Power Source: AC 120V/60Z

Test item: Radiation Test

Date: 2011/09/03

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

Time: 10:37:19

EUT: HDD multimedia player

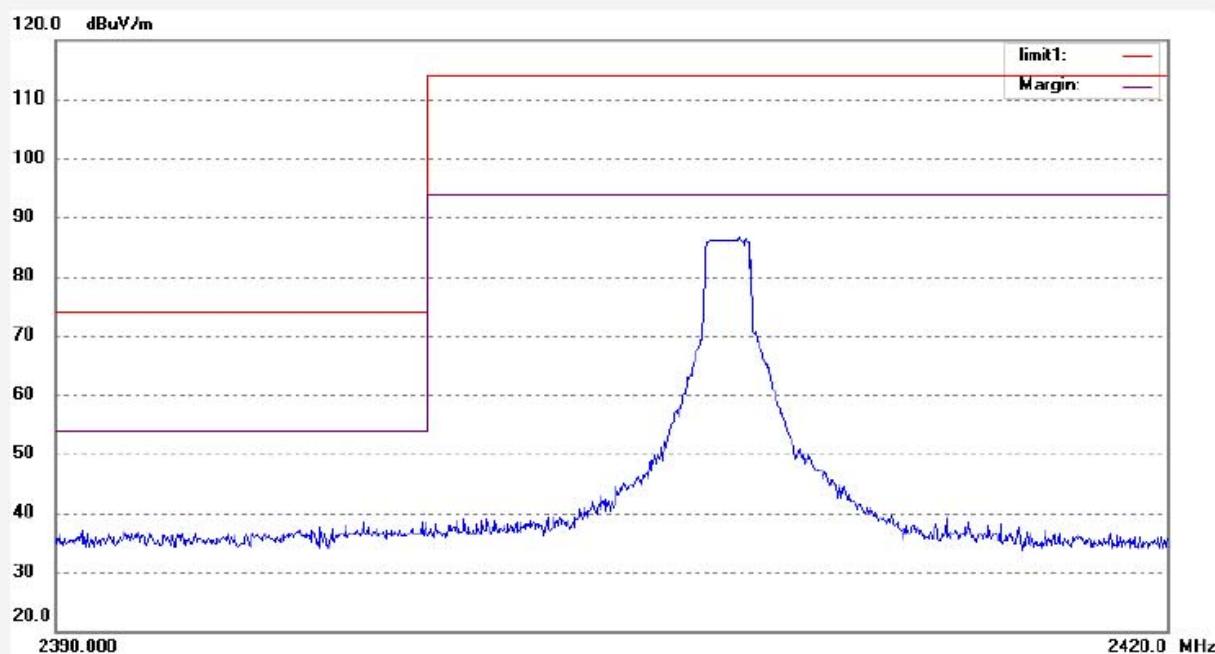
Engineer Signature: Pei

Mode: TX Channel 1 (802.11b)

Distance: 3m

Model: Xtreamer Sidewinder 2

Manufacturer: UNICORN



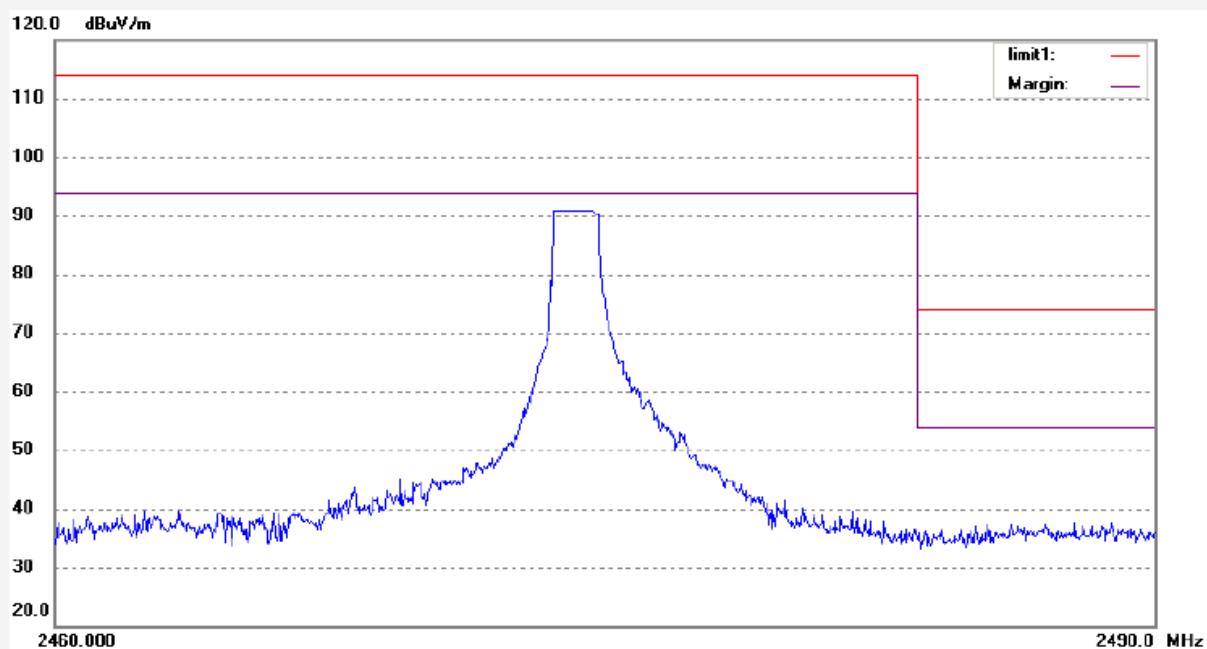
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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 Fax:+86-0755-26503396

Job No.:	Polarization:	Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source:	AC 120V/60Hz
Test item: Radiation Test	Date:	2011/09/03
Temp.(C)/Hum.(%) 25 C / 50 %	Time:	10:47:33
EUT: HDD multimedia player	Engineer Signature:	Pei
Mode: TX Channel 11 (802.11b)	Distance:	3m
Model: Xtreamer Sidewinder 2		
Manufacturer: UNICORN		



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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 Fax:+86-0755-26503396

Job No.:

Standard: FCC Part 15 PEAK 2.4G

Test item: Radiation Test

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

EUT: HDD multimedia player

Mode: TX Channel 11 (802.11b)

Model: Xtreamer Sidewinder 2

Manufacturer: UNICORN

Polarization: Vertical

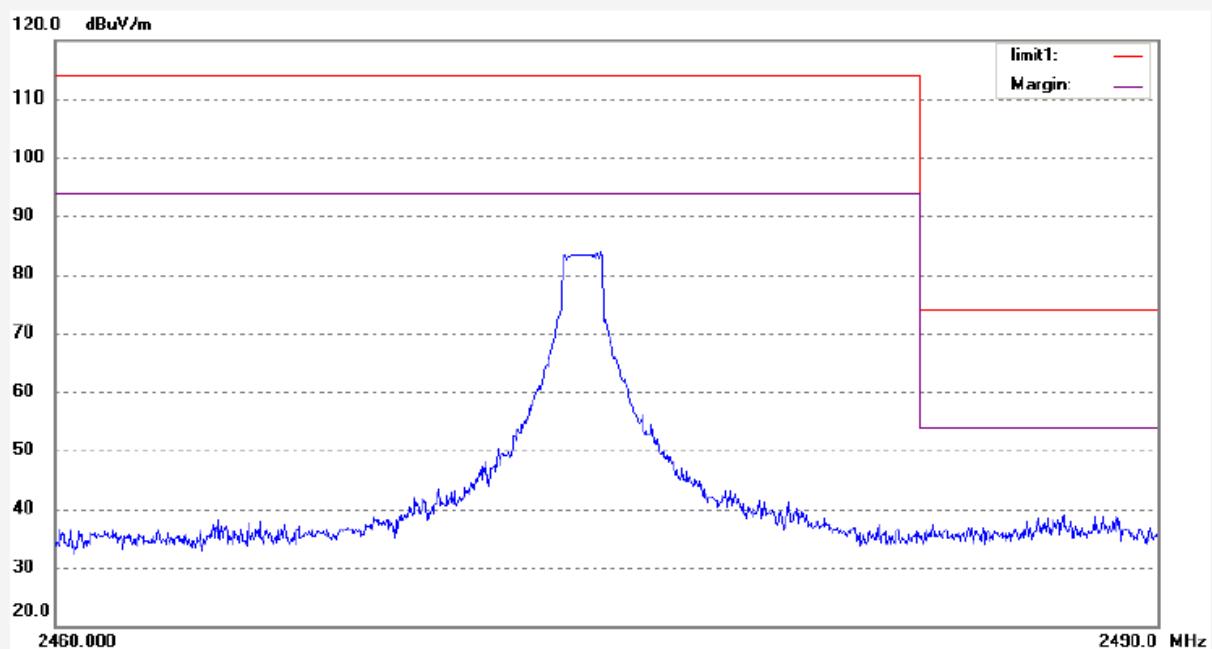
Power Source: AC 120V/60Hz

Date: 2011/09/03

Time: 10:43:24

Engineer Signature: Pei

Distance: 3m



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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 Fax:+86-0755-26503396

Job No.:

Standard: FCC Part 15 PEAK 2.4G

Polarization: Horizontal

Test item: Radiation Test

Power Source: AC 120V/60Hz

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

Date: 2011/09/03

EUT: HDD multimedia player

Time: 16:32:35

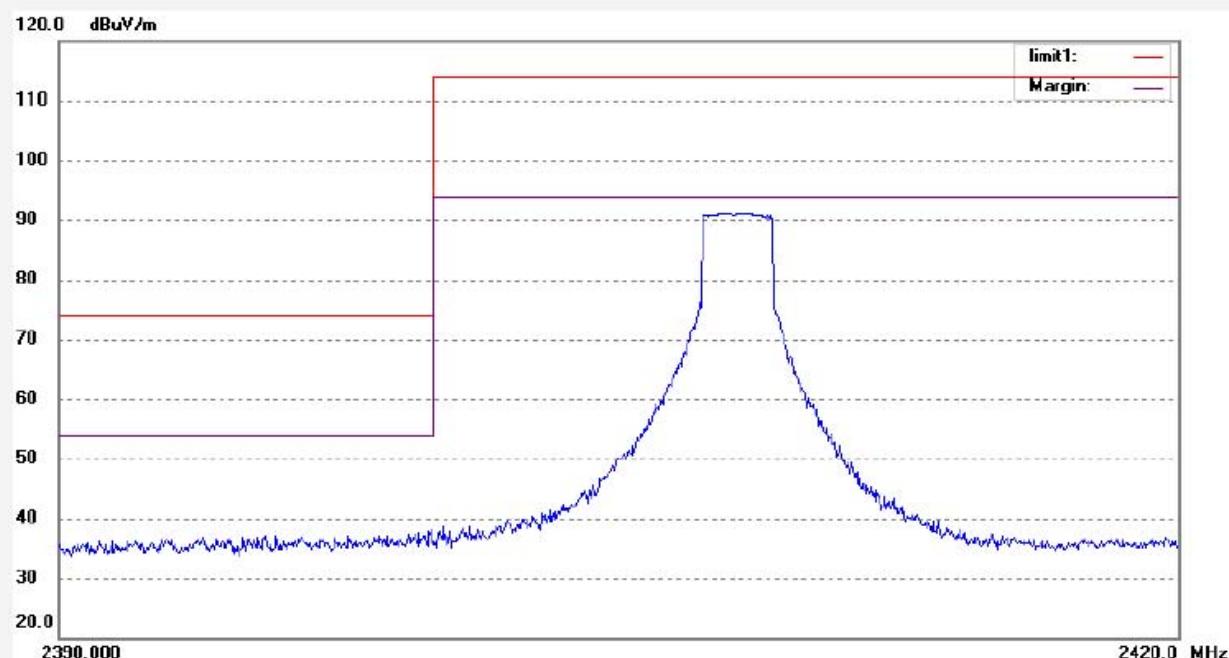
Mode: TX Channel 1 (802.11g)

Engineer Signature: Pei

Model: Xstreamer Sidewinder 2

Distance: 3m

Manufacturer: UNICORN



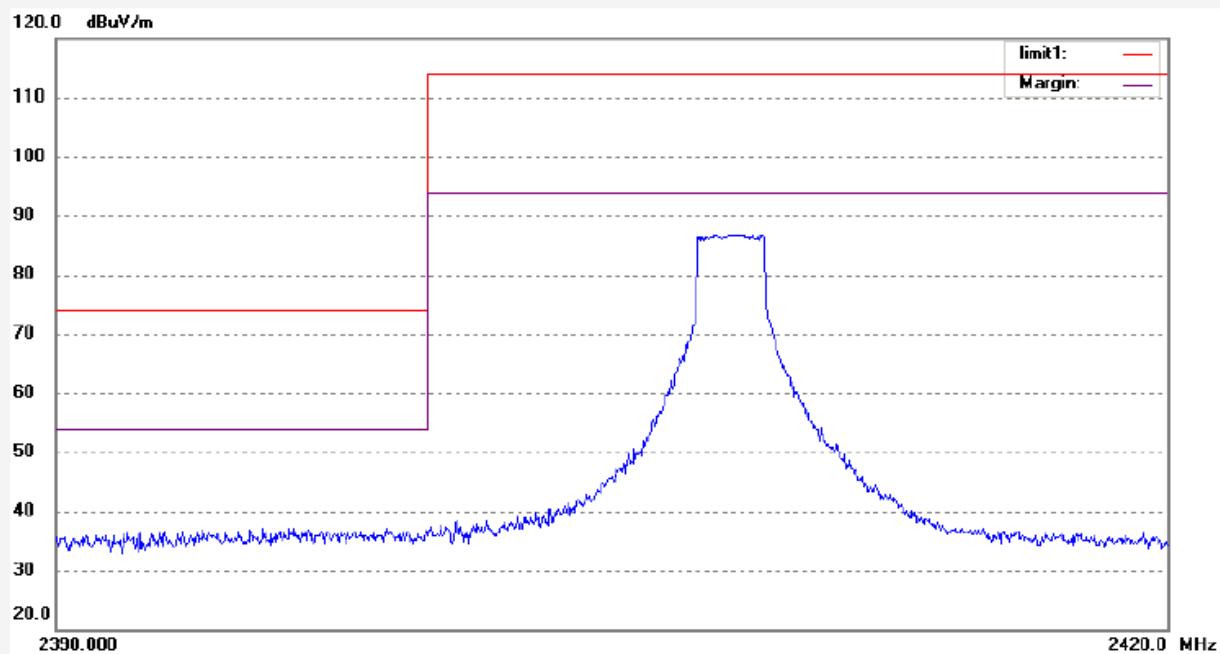
No.	Freq. (MHz)	Reading (dB _{UV} /m)	Factor (dB)	Result (dB _{UV} /m)	Limit (dB _{UV} /m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Fax:+86-0755-26503396

Job No.:	Polarization: Vertical
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/03
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 16:36:50
EUT: HDD multimedia player	Engineer Signature: Pei
Mode: TX Channel 1 (802.11g)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	



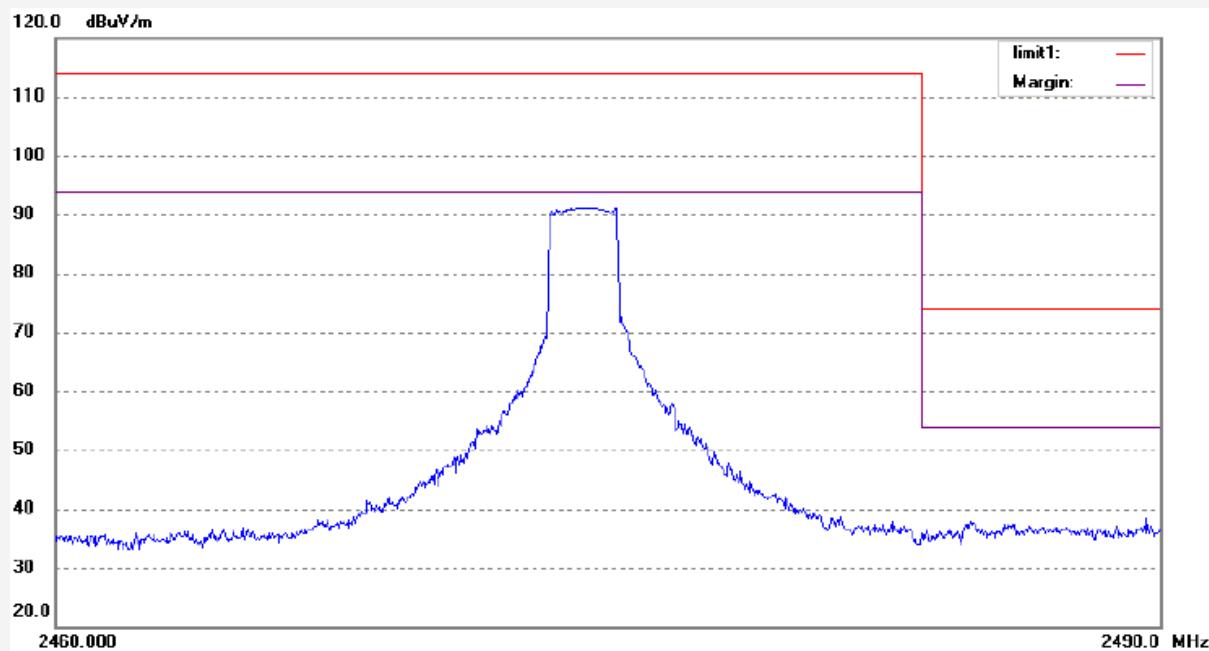
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark


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 Fax:+86-0755-26503396

Job No.:	Polarization: Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/03
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 16:46:39
EUT: HDD multimedia player	Engineer Signature: Pei
Mode: TX Channel 11 (802.11g)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	



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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Job No.:	Polarization:	Vertical								
Standard: FCC Part 15 PEAK 2.4G	Power Source:	AC 120V/60Hz								
Test item: Radiation Test	Date:	2011/09/03								
Temp.(C)/Hum.(%) 25 C / 50 %	Time:	16:42:28								
EUT: HDD multimedia player	Engineer Signature:	Pei								
Mode: TX Channel 11 (802.11g)	Distance:	3m								
Model: Xtreamer Sidewinder 2										
Manufacturer: UNICORN										
<hr/>										
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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 Fax:+86-0755-26503396

Job No.:

Standard: FCC Part 15 PEAK 2.4G

Polarization: Horizontal

Test item: Radiation Test

Power Source: DC 5V

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

Date: 2011/07/15

EUT: HDD multimedia player

Time: 14:23:35

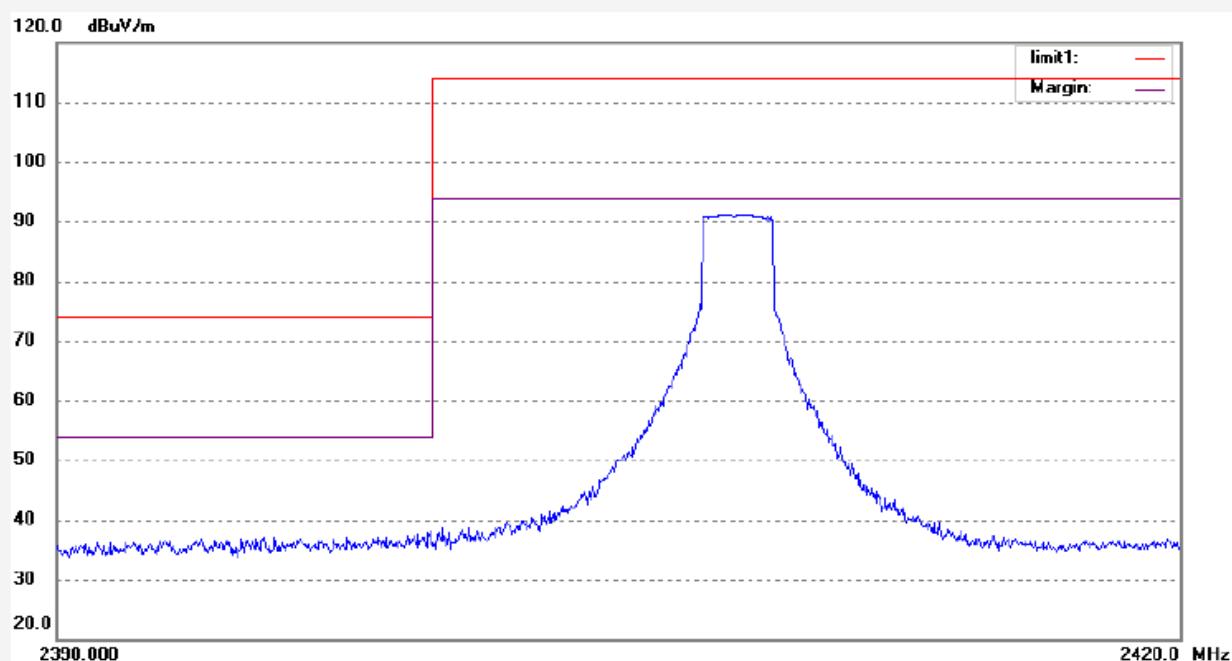
Mode: TX Channel 1 (802.11n)

Engineer Signature: PEI

Model: Xtreamer Sidewinder 2

Distance: 3m

Manufacturer: UNICORN



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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Fax:+86-0755-26503396

Job No.:

Standard: FCC Part 15 PEAK 2.4G

Test item: Radiation Test

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

EUT: HDD multimedia player

Mode: TX Channel 1 (802.11n)

Model: Xtreamer Sidewinder 2

Manufacturer: UNICORN

Polarization: Vertical

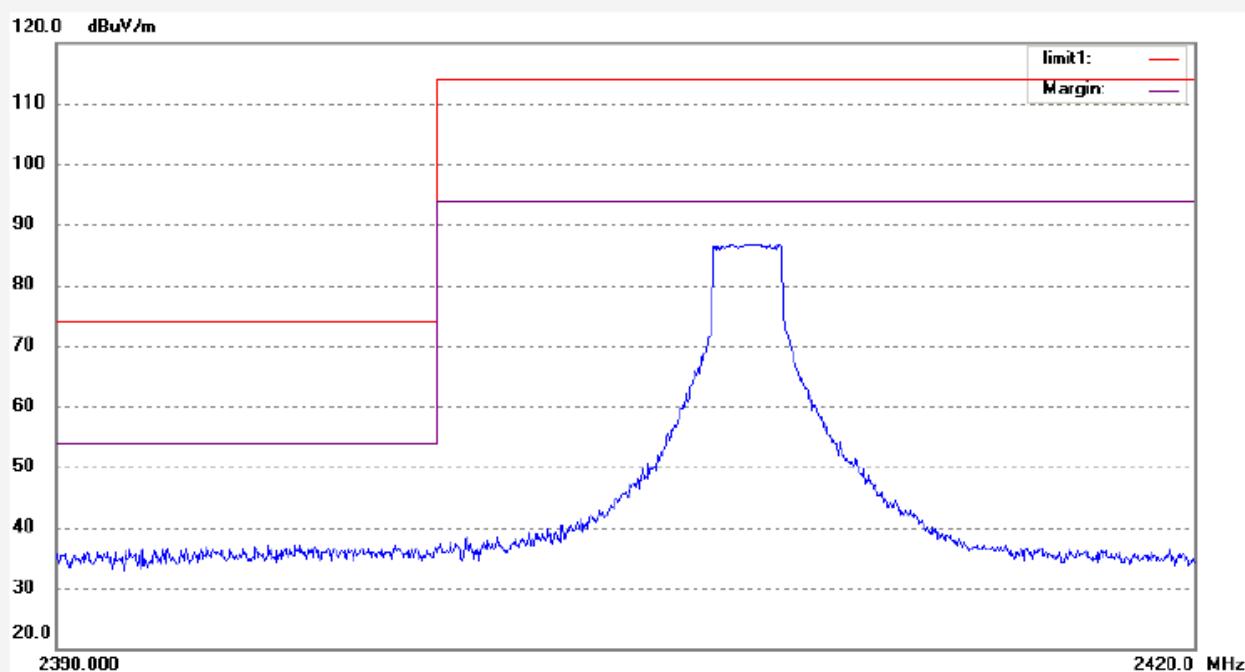
Power Source: AC 120V/60Hz

Date: 2011/09/03

Time: 14:32:50

Engineer Signature: PEI

Distance: 3m



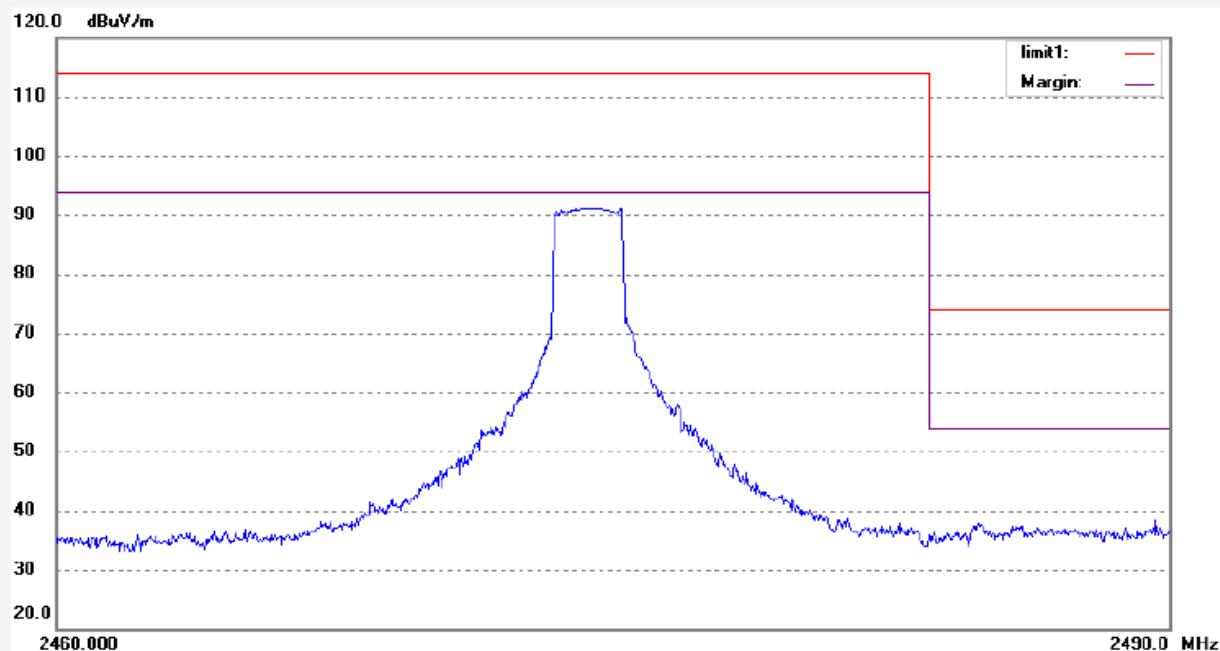
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	----------------	---------------------	----------------	--------------------	-------------------	----------------	----------	----------------	------------------	--------


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Job No.:	Polarization:	Horizontal
Standard: FCC Part 15 PEAK 2.4G	Power Source:	AC 120V/60Hz
Test item: Radiation Test	Date:	2011/09/03
Temp. (C)/Hum.(%) 25 C / 50 %	Time:	14:49:39
EUT: HDD multimedia player	Engineer Signature:	PEI
Mode: TX Channel 11 (802.11n)	Distance:	3m
Model: Xtreamer Sidewinder 2		
Manufacturer: UNICORN		



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.:

Polarization: Vertical

Standard: FCC Part 15 PEAK 2.4G

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2011/09/03

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

Time: 14:41:28

EUT: HDD multimedia player

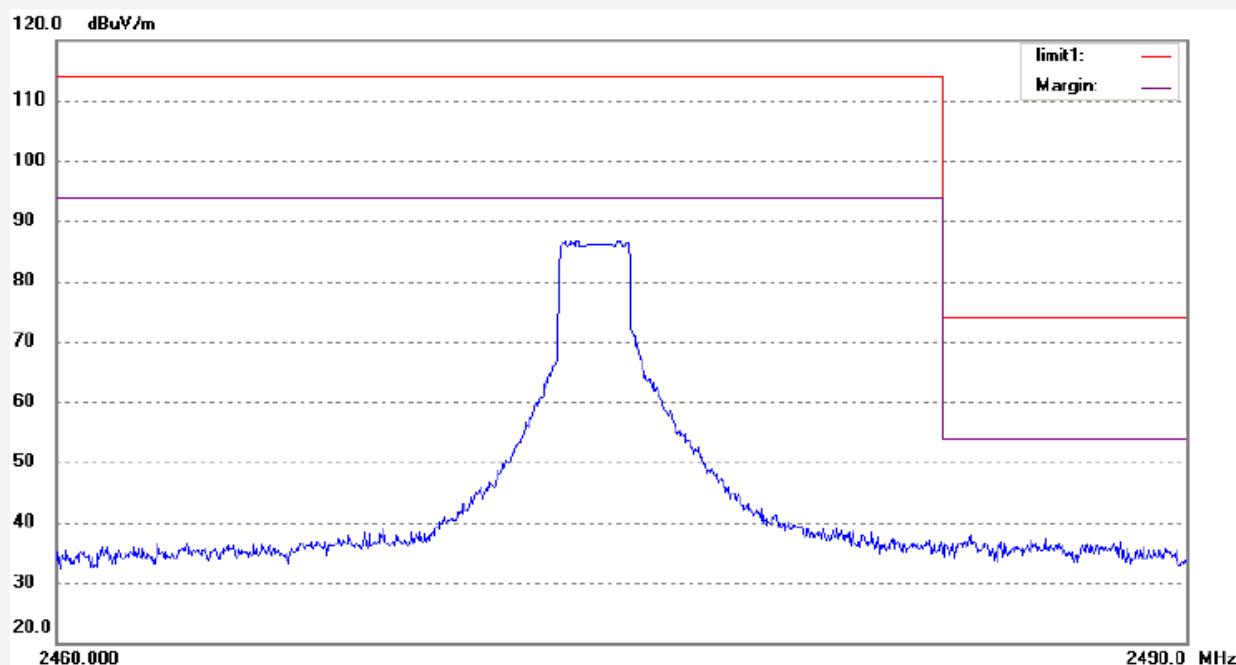
Engineer Signature: PEI

Mode: TX Channel 11 (802.11n)

Distance: 3m

Model: Xtreamer Sidewinder 2

Manufacturer: UNICORN

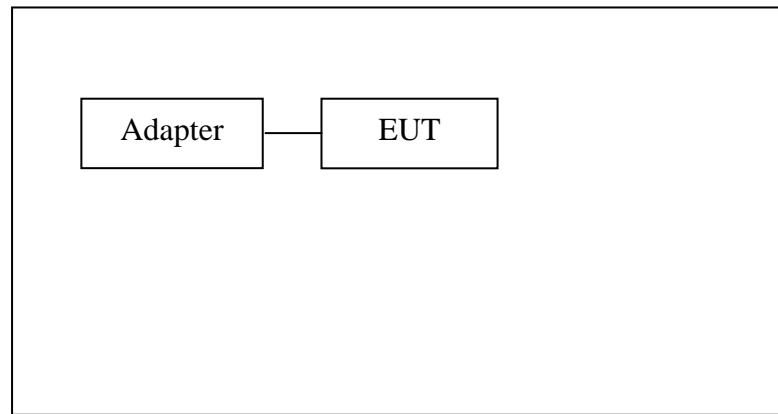


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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9. RADIATED SPURIOUS EMISSION TEST

9.1. Block Diagram of Test Setup

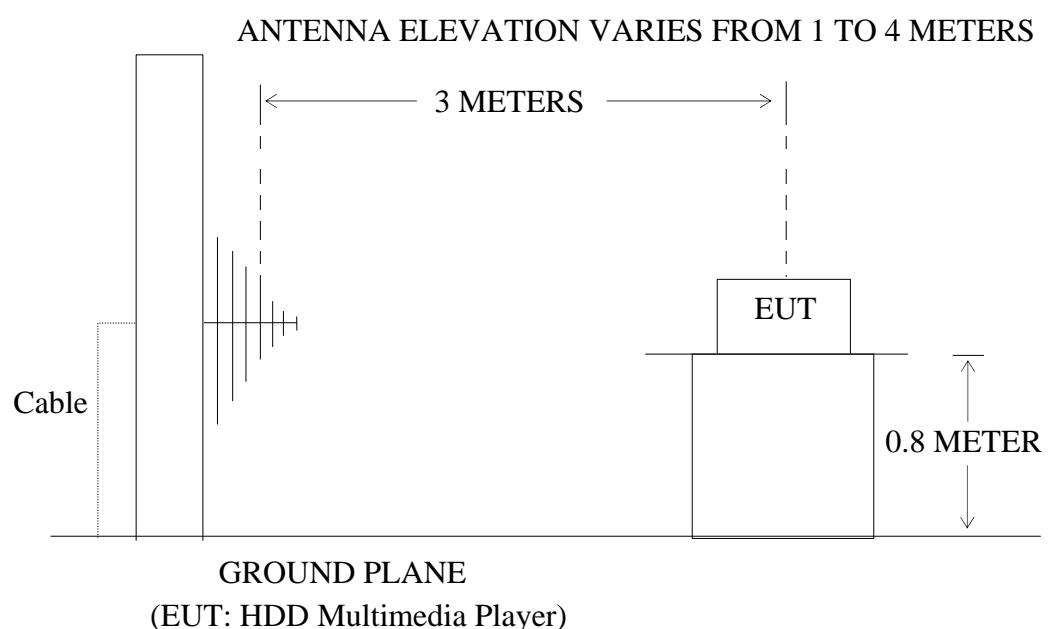
9.1.1. Block diagram of connection between the EUT and peripherals



Setup: Transmitting mode

(EUT: HDD Multimedia Player)

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
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			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 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.HDD Multimedia Player (EUT)

Model Number	:	Xtreamer Sidewinder 2
Serial Number	:	N/A
Manufacturer	:	XTREAMER LIMITED

9.5.Operating Condition of EUT

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

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:	September 4-6, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	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 (dB μ V/m)	Factor Corr. (dB)	Result	Limit	Margin	Polarization
			QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB μ V/m)		Factor Corr. (dB)	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB μ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2400.000	39.38	45.26	-7.46	31.92	37.80	54	74	-22.08	-36.20	Vertical
2412.000	95.28	101.21	-7.43	87.85	93.78	-	-	-	-	Vertical
*4824.052	50.89	56.81	-0.19	50.70	56.62	54	74	-3.30	-17.38	Vertical
7236.076	44.73	50.66	3.05	47.78	53.71	54	74	-6.22	-20.29	Vertical
2400.000	39.73	45.65	-7.46	32.27	38.19	54	74	-21.73	-35.81	Horizontal
2412.000	96.92	102.86	-7.43	89.49	95.43	-	-	-	-	Horizontal
*4824.052	50.87	56.84	-0.19	50.68	56.65	54	74	-3.32	-17.35	Horizontal
7236.076	44.90	50.92	3.05	47.95	53.97	54	74	-6.05	-20.03	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:	September 4-6, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	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 (dB μ V/m)	Factor Corr. (dB)	Result	Limit	Margin	Polarization
			QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB μ V/m)		Factor Corr. (dB)	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB μ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2437.000	94.68	100.54	-7.36	87.32	93.18	-	-	-	-	Vertical
*4874.053	50.56	56.47	0.09	50.65	56.56	54	74	-3.35	-17.44	Vertical
*7311.078	44.49	50.41	3.22	47.71	53.63	54	74	-6.29	-20.37	Vertical
2437.000	96.60	102.53	-7.36	89.24	95.17	-	-	-	-	Horizontal
*4874.053	50.56	56.55	0.09	50.65	56.64	54	74	-3.35	-17.36	Horizontal
*7311.078	44.72	50.66	3.22	47.94	53.88	54	74	-6.06	-20.12	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:	September 4-6, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	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 (dB μ V/m)	Factor Corr. (dB)	Result	Limit	Margin (dB)	Polarization
			QP	QP		
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB μ V/m)		Factor Corr. (dB)	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB μ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2462.000	95.33	101.29	-7.35	87.98	93.94	-	-	-	-	Vertical
2483.500	39.60	45.63	-7.37	32.23	38.26	54	74	-21.77	-35.74	Vertical
*4924.050	50.38	56.29	0.34	50.72	56.63	54	74	-3.28	-17.37	Vertical
*7386.077	44.54	50.44	3.39	47.93	53.83	54	74	-6.07	-20.17	Vertical
2462.000	96.77	102.74	-7.35	89.42	95.39	-	-	-	-	Horizontal
2483.500	39.66	45.55	-7.37	32.29	38.18	54	74	-21.71	-35.82	Horizontal
*4924.050	50.40	56.37	0.34	50.74	56.71	54	74	-3.26	-17.29	Horizontal
*7386.077	44.28	50.22	3.39	47.67	53.61	54	74	-6.33	-20.39	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: September 4-6, 2011
 EUT: HDD Multimedia Player
 Model No.: Xtreamer Sidewinder 2
 Test Mode: 802.11g Channel Low 2412MHz

Temperature: 25°C
 Humidity: 50%
 Power Supply: AC 120V/60HZ
 Test Engineer: Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dB μ V/m)	Factor Corr.	Result		Limit (dB μ V/m)	Margin (dB)	Polarization
			QP	(dB)			
	QP	QP	QP	QP	QP	QP	
-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB μ V/m)		Factor Corr. (dB)	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB μ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2400.000	39.98	45.88	-7.46	32.52	38.42	54	74	-21.48	-35.58	Vertical
2412.000	95.51	101.43	-7.43	88.08	94.00	-	-	-	-	Vertical
*4824.054	49.80	55.72	-0.19	49.61	55.53	54	74	-4.39	-18.47	Vertical
7236.080	43.58	49.46	3.05	46.63	52.51	54	74	-7.37	-21.49	Vertical
2400.000	39.72	45.68	-7.46	32.26	38.22	54	74	-21.74	-35.78	Horizontal
2412.000	96.09	102.06	-7.43	88.66	94.63	-	-	-	-	Horizontal
*4824.054	50.38	56.22	-0.19	50.19	56.03	54	74	-3.81	-17.97	Horizontal
7236.080	44.23	50.15	3.05	47.28	53.20	54	74	-6.72	-20.80	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: September 4-6, 2011
 EUT: HDD Multimedia Player
 Model No.: Xtreamer Sidewinder 2
 Test Mode: 802.11g Channel Middle 2437MHz

Temperature: 25°C
 Humidity: 50%
 Power Supply: AC 120V/60HZ
 Test Engineer: Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dB μ V/m)	Factor Corr.	Result		Limit (dB μ V/m)	Margin (dB)	Polarization
			QP	QP			
	QP	(dB)	QP	QP	QP	QP	
-	-	-	-	-	-	-	Vertical
-	-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB μ V/m)		Factor Corr. (dB)	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB μ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2437.000	95.19	101.10	-7.36	87.83	93.74	-	-	-	-	Vertical
*4874.052	50.06	55.95	0.09	50.15	56.04	54	74	-3.85	-17.96	Vertical
*7311.076	44.19	50.06	3.22	47.41	53.28	54	74	-6.59	-20.72	Vertical
2437.000	96.07	101.92	-7.36	88.71	94.56	-	-	-	-	Horizontal
*4874.052	49.23	55.20	0.09	49.32	55.29	54	74	-4.68	-18.71	Horizontal
*7311.076	43.91	49.82	3.22	47.13	53.04	54	74	-6.87	-20.96	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:	September 4-6, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	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 (dB μ V/m)	Factor Corr. (dB)	Result	Limit	Margin (dB)	Polarization
			QP	QP		
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB μ V/m)		Factor Corr. (dB)	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB μ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2462.000	95.34	101.29	-7.35	87.99	93.94	-	-	-	-	Vertical
2483.500	39.80	45.72	-7.37	32.43	38.35	54	74	-21.57	-35.65	Vertical
*4924.051	49.30	55.29	0.34	49.64	55.63	54	74	-4.36	-18.37	Vertical
*7386.079	43.52	49.55	3.39	46.91	52.94	54	74	-7.09	-21.06	Vertical
2462.000	96.01	101.95	-7.35	88.66	94.60	-	-	-	-	Horizontal
2483.500	39.66	45.65	-7.37	32.29	38.28	54	74	-21.71	-35.72	Horizontal
*4924.051	49.58	55.46	0.34	49.92	55.80	54	74	-4.08	-18.20	Horizontal
*7386.079	43.46	49.37	3.39	46.85	52.76	54	74	-7.15	-21.24	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:	September 4-6, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	Power Supply:	AC 120V/60HZ
Test Mode:	802.11n Channel High 2412MHz	Test Engineer:	Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dB μ V/m)	Factor Corr. (dB)	Result	Limit	Margin (dB)	Polarization
			QP	QP		
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB μ V/m)		Factor Corr. (dB)	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB μ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2400.000	40.06	45.96	-7.46	32.60	38.50	54	74	-21.40	-35.50	Vertical
2412.000	95.25	101.16	-7.43	87.82	93.73	-	-	-	-	Vertical
*4824.056	50.35	56.24	-0.19	50.16	56.05	54	74	-3.84	-17.95	Vertical
7236.082	43.38	49.29	3.05	46.43	52.34	54	74	-7.57	-21.66	Vertical
2400.000	39.76	45.71	-7.46	32.30	38.25	54	74	-21.70	-35.75	Horizontal
2412.000	96.47	102.36	-7.43	89.04	94.93	-	-	-	-	Horizontal
*4824.056	50.97	56.90	-0.19	50.78	56.71	54	74	-3.22	-17.39	Horizontal
7236.082	44.07	50.03	3.05	47.12	53.08	54	74	-6.88	-20.92	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: September 4-6, 2011
 EUT: HDD Multimedia Player
 Model No.: Xtreamer Sidewinder 2
 Test Mode: 802.11n Channel High 2437MHz

Temperature: 25°C
 Humidity: 50%
 Power Supply: AC 120V/60HZ
 Test Engineer: Pei

For 30MHz-1000MHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading (dB μ V/m)	Factor Corr.	Result	Limit	Margin (dB)	Polarization
			(dB μ V/m)	(dB μ V/m)		
	QP	(dB)	QP	QP	QP	
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB μ V/m)		Factor Corr. (dB)	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB μ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2437.000	95.15	101.07	-7.36	87.79	93.71	-	-	-	-	Vertical
*4874.055	50.00	55.91	0.09	50.09	56.00	54	74	-3.91	18.00	Vertical
*7311.080	43.25	49.14	3.22	46.47	52.36	54	74	-7.53	-21.64	Vertical
2437.000	96.02	101.95	-7.36	88.66	94.59	-	-	-	-	Horizontal
*4874.055	49.90	55.82	0.09	49.99	55.91	54	74	-4.01	-18.09	Horizontal
*7311.080	43.78	49.70	3.22	47.00	52.92	54	74	-7.00	-21.08	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:	September 4-6, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	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 (dB μ V/m)	Factor Corr. (dB)	Result	Limit	Margin (dB)	Polarization
			QP	QP		
-	-	-	-	-	-	Vertical
-	-	-	-	-	-	Horizontal

For 1GHz-25GHz

Corrected Factor = Antenna Factor + Cable Loss – Amplifier Gain

Frequency (MHz)	Reading(dB μ V/m)		Factor Corr. (dB)	Result(dB μ V/m)		Limit(dB μ V/m)		Margin(dB μ V/m)		Polarizati on
	AV	PEAK		AV	PEAK	AV	PEAK	AV	PEAK	
2462.000	95.03	100.96	-7.35	87.68	93.61	-	-	-	-	Vertical
2483.500	39.81	45.72	-7.37	32.44	38.35	54	74	-21.56	-35.65	Vertical
*4924.054	49.53	55.42	0.34	49.87	55.76	54	74	-4.13	-18.24	Vertical
*7386.079	42.77	48.69	3.39	46.16	52.08	54	74	-7.84	-21.92	Vertical
2462.000	96.11	102.10	-7.35	88.76	94.75	-	-	-	-	Horizontal
2483.500	39.93	45.89	-7.37	32.56	38.52	54	74	-21.44	-35.48	Horizontal
*4924.054	50.13	56.16	0.34	50.47	56.50	54	74	-3.53	-17.50	Horizontal
*7386.079	43.83	49.80	3.34	47.17	53.14	54	74	-6.83	-20.86	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

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Fax:+86-0755-26503396

Job No.: RTTE #5868	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2011/09/03									
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 15:01:24									
EUT: HDD multimedia player	Engineer Signature: STAR									
Mode: TX Channel 1 (802.11b)	Distance: 3m									
Model: Xtreamer Sidewinder 2										
Manufacturer: UNICORN										
Note: Report No.:ATE20111766										
<p>The graph plots dBuV/m against MHz. The x-axis ranges from 30.000 to 1000.0 MHz. The y-axis ranges from 0.0 to 70.0 dBuV/m. A red horizontal line at approximately 40 dBuV/m represents the limit. A blue noisy line represents the reading, which stays below the limit until about 80 MHz, then rises to about 45 dBuV/m between 300 and 1000 MHz, staying slightly above the limit.</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.: RTTE #5869

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2011/09/03

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

Time: 15:05:27

EUT: HDD multimedia player

Engineer Signature: STAR

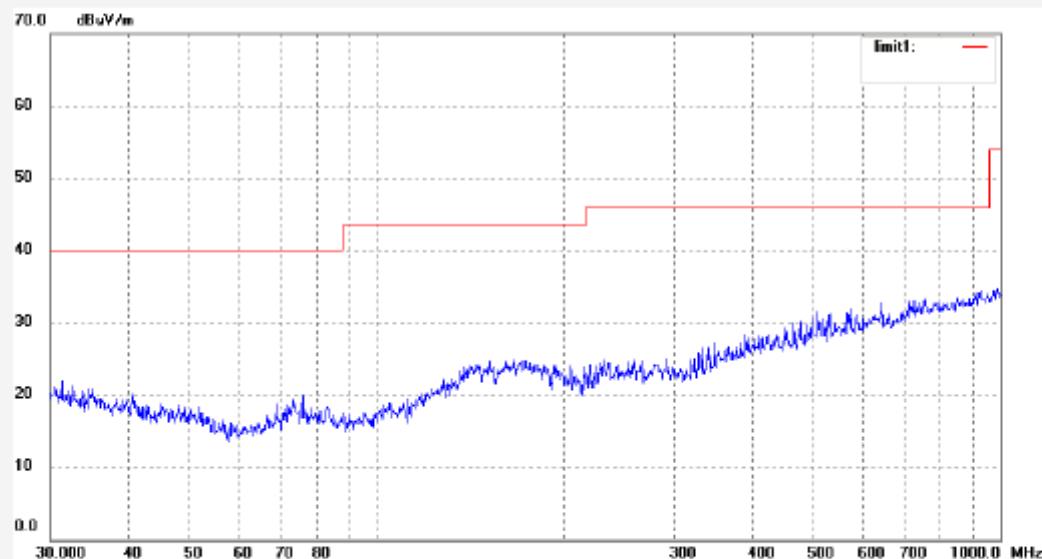
Mode: TX Channel 1 (802.11b)

Distance: 3m

Model: Xtreamer Sidewinder 2

Manufacturer: UNICORN

Note: Report No.:ATE20111766



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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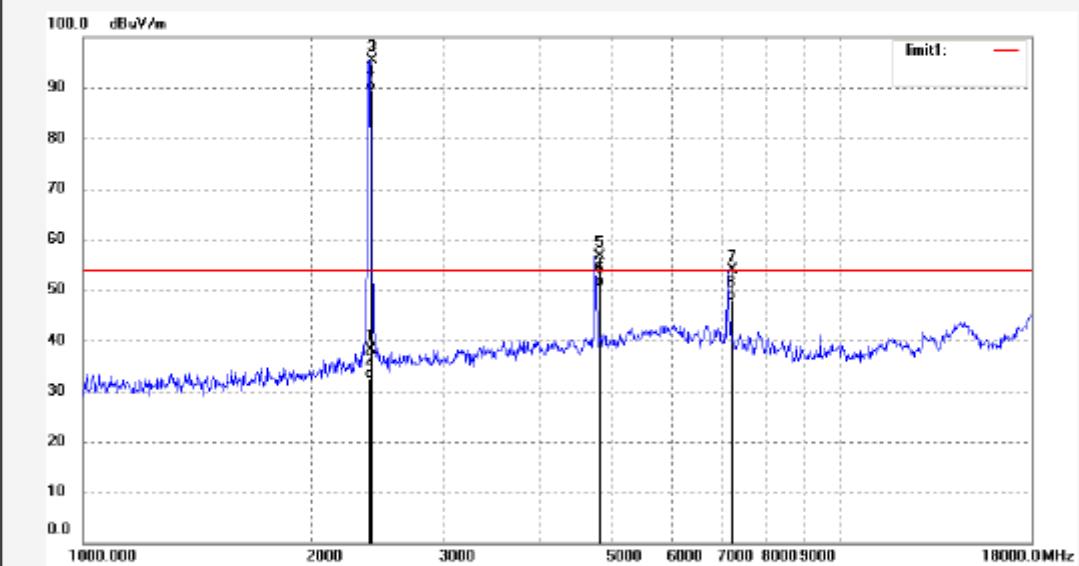


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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RTTE #5887	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 9:12:38
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 1 (802.11b)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	
Note: Report No.:ATE20111766	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	45.65	-7.46	38.19	74.00	-35.81	peak			
2	2400.000	39.73	-7.46	32.27	54.00	-21.73	Avg			
3	2412.000	102.86	-7.43	95.43	-	-	peak			
4	2412.000	96.92	-7.43	89.49	-	-	Avg			
5	4824.052	56.84	-0.19	56.65	74.00	-17.35	peak			
6	4824.052	50.87	-0.19	50.68	54.00	-3.32	Avg			
7	7236.076	50.92	3.05	53.97	74.00	-20.03	peak			
8	7236.076	44.90	3.05	47.95	54.00	-6.05	Avg			



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

Job No.: RTTE #5886

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2011/09/04

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

Time: 9:08:11

EUT: HDD multimedia player

Engineer Signature: STAR

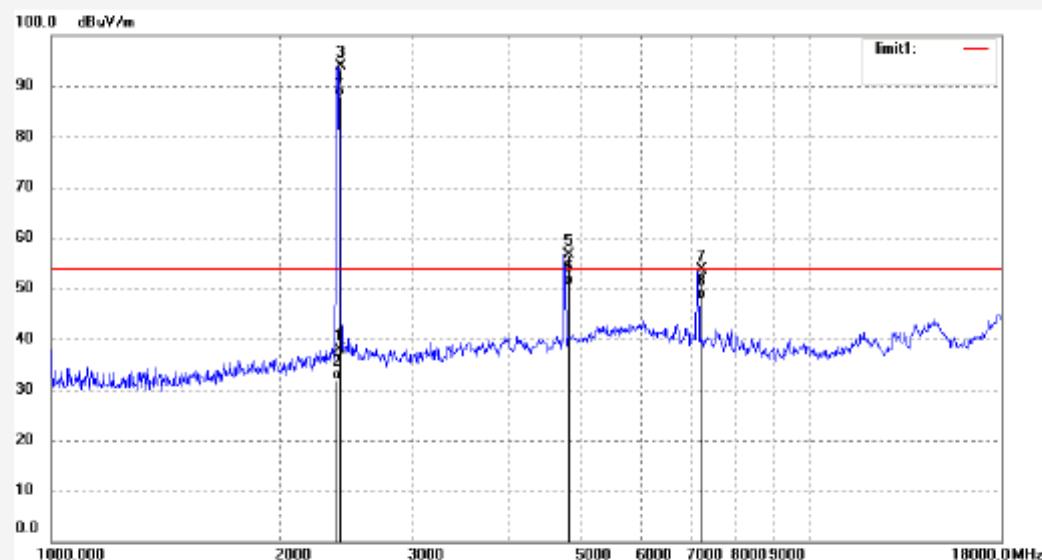
Mode: TX Channel 1 (802.11b)

Distance: 3m

Model: Xtreamer Sidewinder 2

Manufacturer: UNICORN

Note: Report No.:ATE20111766



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	45.26	-7.46	37.80	74.00	-36.20	peak			
2	2400.000	39.38	-7.46	31.92	54.00	-22.08	AVG			
3	2412.000	101.21	-7.43	93.78	-	-	peak			
4	2412.000	95.28	-7.43	87.85	-	-	AVG			
5	4824.052	56.81	-0.19	56.62	74.00	-17.38	peak			
6	4824.052	50.89	-0.19	50.70	54.00	-3.30	AVG			
7	7236.076	50.66	3.05	53.71	74.00	-20.29	peak			
8	7236.076	44.73	3.05	47.78	54.00	-6.22	AVG			

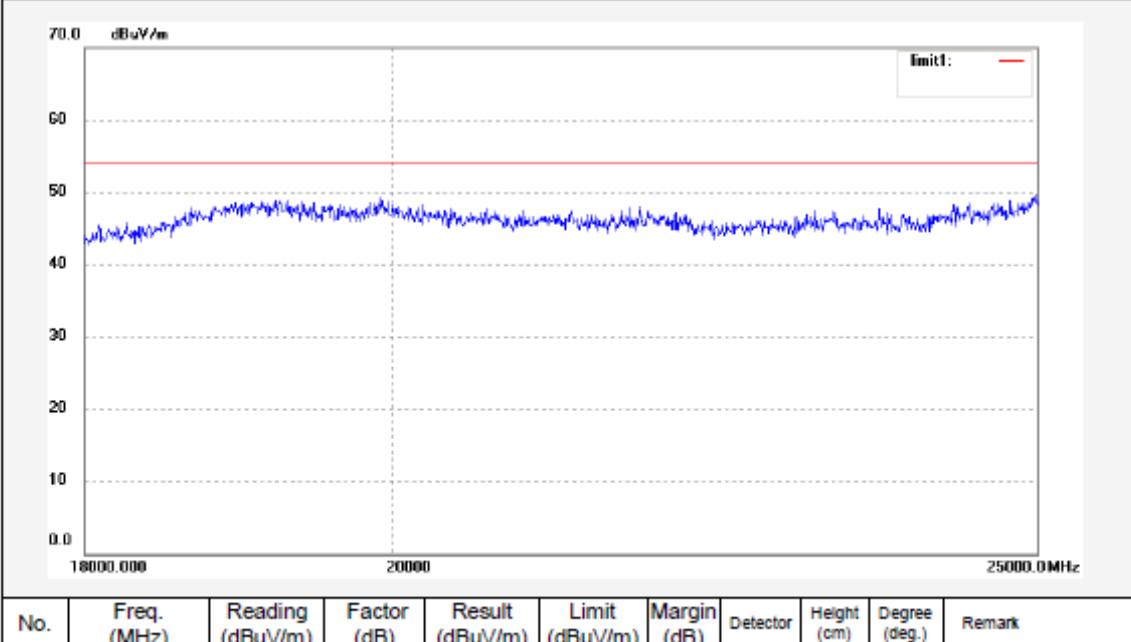


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Job No.: RTTE #5904	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 10:49:50
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 1 (802.11b)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	

Note: Report No.:ATE20111766





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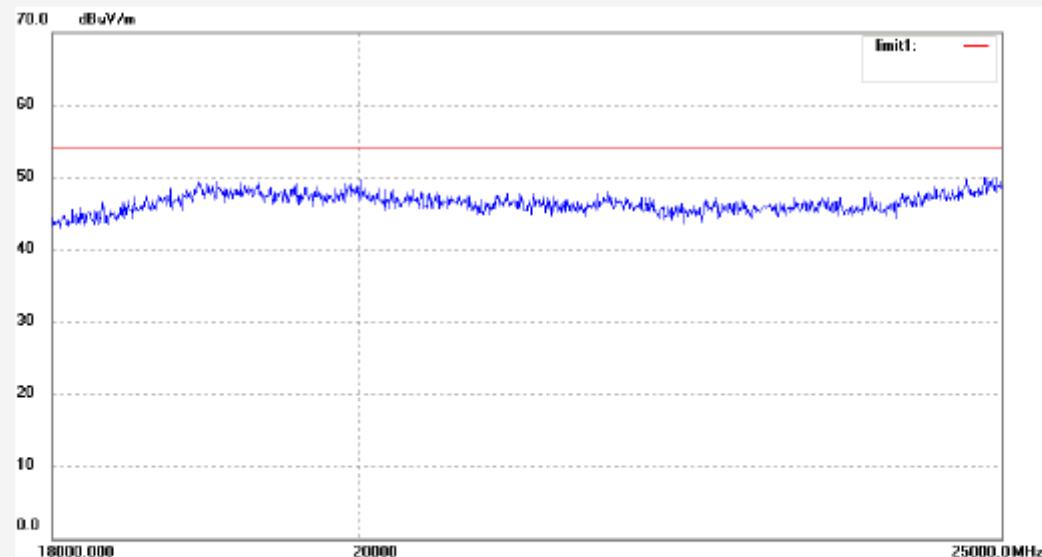
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: RTTE #5905
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 50 %
EUT: HDD multimedia player
Mode: TX Channel 1 (802.11b)
Model: Xtreamer Sidewinder 2
Manufacturer: UNICORN

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2011/09/04
Time: 10:54:16
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20111766



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.: RTTE #5871	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2011/09/03									
Temp. (C)/Hum.(%) 25 C / 50 %	Time: 15:14:30									
EUT: HDD multimedia player	Engineer Signature: STAR									
Mode: TX Channel 6 (802.11b)	Distance: 3m									
Model: Xtreamer Sidewinder 2										
Manufacturer: UNICORN										
Note: Report No.:ATE20111766										
<p>The graph plots dBuV/m against MHz. The x-axis ranges from 30.000 to 1000.0 MHz. The y-axis ranges from 0.0 to 70.0 dBuV/m. A blue line represents the measured reading, which starts at approximately 18 dBuV/m at 30 MHz, rises to about 22 dBuV/m by 100 MHz, and then fluctuates between 20 and 30 dBuV/m up to 1 GHz. A red step-like line represents the limit, starting at 40 dBuV/m from 30 MHz to 80 MHz, then jumping to 45 dBuV/m until 1000 MHz.</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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Fax:+86-0755-26503396

Job No.:	RTTE #5868	Polarization:	Vertical							
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz							
Test item:	Radiation Test	Date:	2011/09/03							
Temp.(C)/Hum.(%)	25 C / 50 %	Time:	15:01:24							
EUT:	HDD multimedia player	Engineer Signature:	STAR							
Mode:	TX Channel 6 (802.11b)	Distance:	3m							
Model:	Xtreamer Sidewinder 2									
Manufacturer:	UNICORN									
Note: Report No.:ATE20111766										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

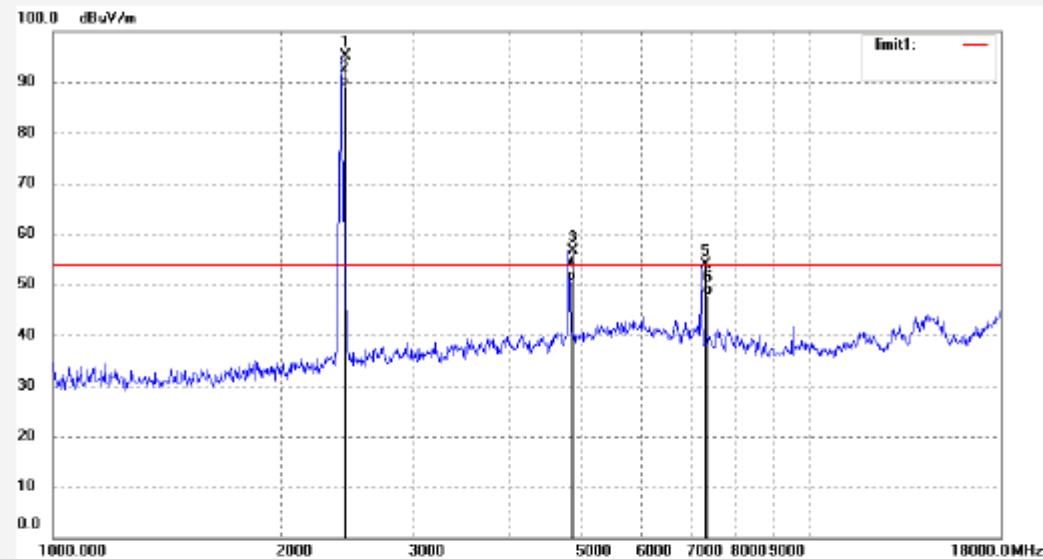


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Fax:+86-0755-26503396

Job No.: RTTE #5888	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 9:17:41
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 6 (802.11b)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	

Note: Report No.:ATE20111766



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	102.53	-7.36	95.17	-	-	peak			
2	2437.000	96.60	-7.36	89.24	-	-	AVG			
3	4874.053	56.55	0.09	56.64	74.00	-17.36	peak			
4	4874.053	50.56	0.09	50.65	54.00	-3.35	AVG			
5	7311.078	50.66	3.22	53.88	74.00	-20.12	peak			
6	7311.078	44.72	3.22	47.94	54.00	-6.06	AVG			



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Job No.: RTTE #5889

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2011/09/04

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

Time: 9:21:58

EUT: HDD multimedia player

Engineer Signature: STAR

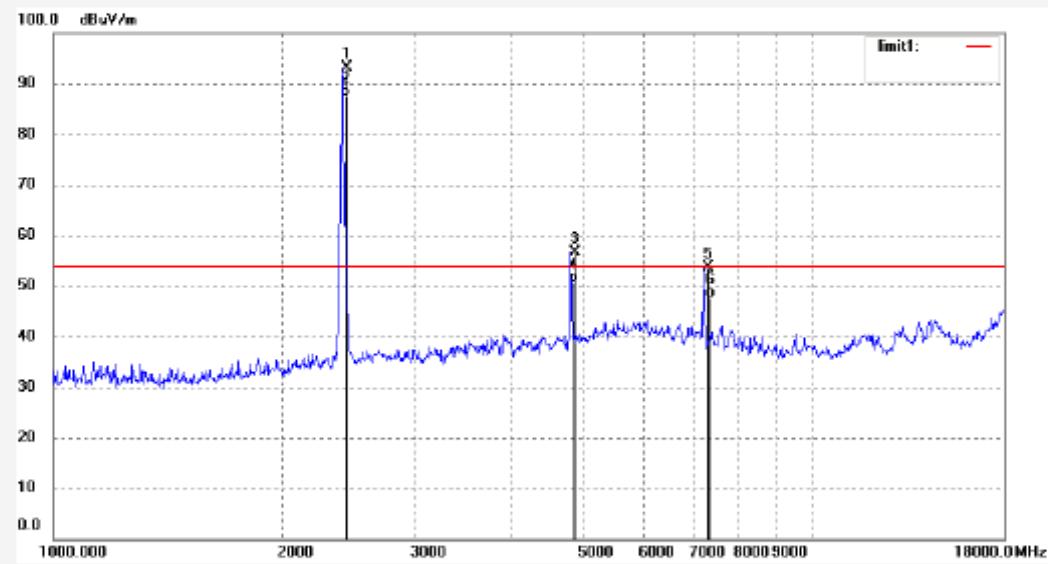
Mode: TX Channel 6 (802.11b)

Distance: 3m

Model: Xtreamer Sidewinder 2

Manufacturer: UNICORN

Note: Report No.:ATE20111766



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	100.54	-7.36	93.18	-	-	peak			
2	2437.000	94.68	-7.36	87.32	-	-	AVG			
3	4874.053	56.47	0.09	56.56	74.00	-17.44	peak			
4	4874.053	50.56	0.09	50.65	54.00	-3.35	AVG			
5	7311.078	50.41	3.22	53.63	74.00	-20.37	peak			
6	7311.078	44.49	3.22	47.71	54.00	-6.29	AVG			



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

Job No.:	RTTE #5907	Polarization:	Horizontal							
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz							
Test item:	Radiation Test	Date:	2011/09/04							
Temp.(C)/Hum.(%)	25 C / 50 %	Time:	11:03:54							
EUT:	HDD multimedia player	Engineer Signature:	STAR							
Mode:	TX Channel 6 (802.11b)	Distance:	3m							
Model:	Xtreamer Sidewinder 2									
Manufacturer:	UNICORN									
Note: Report No.:ATE20111766										
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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Job No.: RTTE #5906

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2011/09/04

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

Time: 10:59:30

EUT: HDD multimedia player

Engineer Signature: STAR

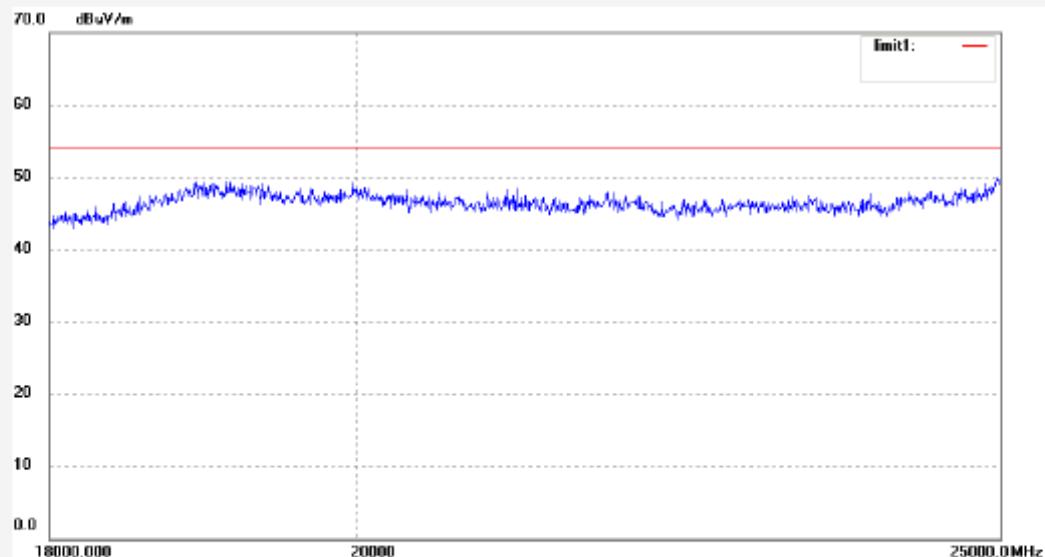
Mode: TX Channel 6 (802.11b)

Distance: 3m

Model: Xtreamer Sidewinder 2

Manufacturer: UNICORN

Note: Report No.:ATE20111766



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
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Fax:+86-0755-26503396

Job No.: RTTE #5872	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2011/09/03									
Temp. (C)/Hum.(%) 25 C / 50 %	Time: 15:19:41									
EUT: HDD multimedia player	Engineer Signature: STAR									
Mode: TX Channel 11 (802.11b)	Distance: 3m									
Model: Xtreamer Sidewinder 2										
Manufacturer: UNICORN										
Note: Report No.:ATE20111766										
<p>The graph displays the measured reading (blue line) and the limit (red line) in dBuV/m versus frequency in MHz. The x-axis ranges from 30.000 to 1000.0 MHz, and the y-axis ranges from 0.0 to 70.0 dBuV/m. The reading shows a significant increase starting around 80 MHz, reaching approximately 32 dBuV/m at 1000 MHz. The limit is set at 40 dBuV/m from 30 MHz to 80 MHz, then jumps to 45 dBuV/m until 1000 MHz.</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

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Fax:+86-0755-26503396

Job No.: RTTE #5873	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2011/09/03									
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 15:23:50									
EUT: HDD multimedia player	Engineer Signature: STAR									
Mode: TX Channel 11 (802.11b)	Distance: 3m									
Model: Xtreamer Sidewinder 2										
Manufacturer: UNICORN										
Note: Report No.:ATE20111766										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

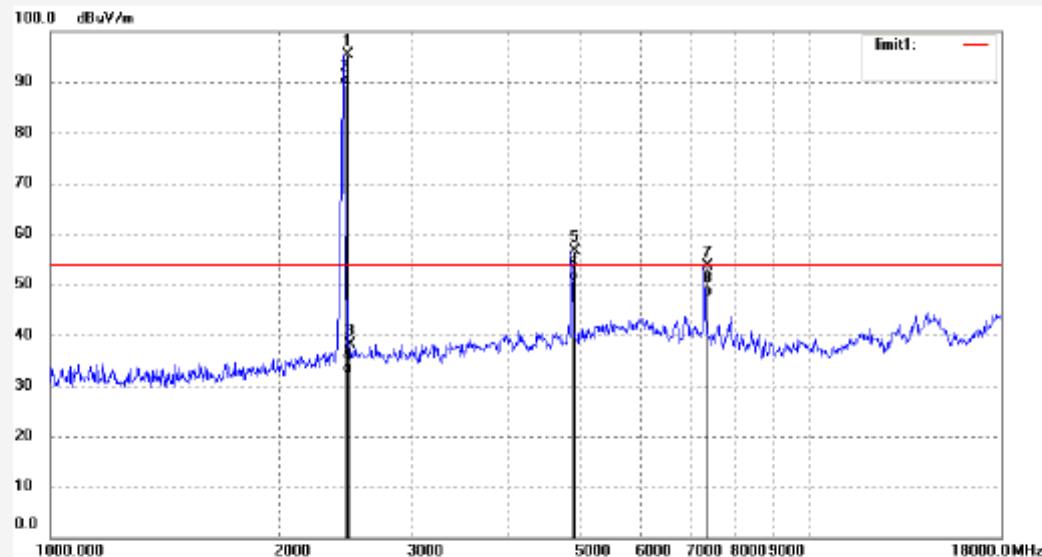


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Site: 966 chamber
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Fax:+86-0755-26503396

Job No.: RTTE #5891	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 9:31209
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 11 (802.11b)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	
Note: Report No.:ATE20111766	



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	102.74	-7.35	95.39	-	-	peak			
2	2462.000	96.77	-7.35	89.42	-	-	Avg			
3	2483.500	45.55	-7.37	38.18	74.00	-35.82	peak			
4	2483.500	39.66	-7.37	32.29	54.00	-21.71	Avg			
5	4924.050	56.37	0.34	56.71	74.00	-17.29	peak			
6	4924.050	50.40	0.34	50.74	54.00	-3.26	Avg			
7	7386.077	50.22	3.39	53.61	74.00	-20.39	peak			
8	7386.077	44.28	3.39	47.67	54.00	-6.33	Avg			



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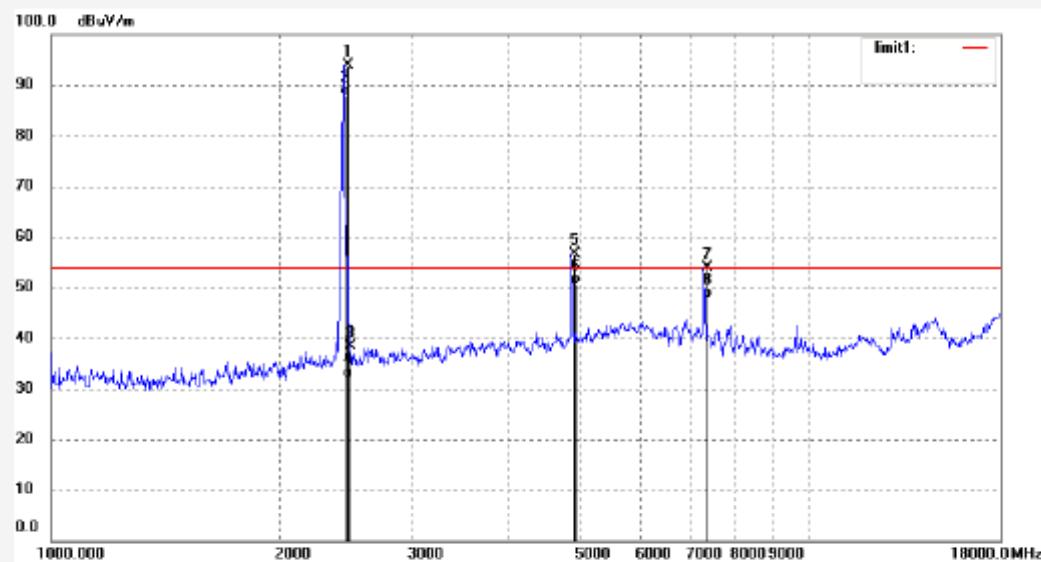
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RTTE #5890	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 9:27:02
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 11 (802.11b)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	
Note: Report No.:ATE20111766	



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	101.29	-7.35	93.94	-	-	peak			
2	2462.000	95.33	-7.35	87.98	-	-	AVG			
3	2483.500	45.63	-7.37	38.26	74.00	-35.74	peak			
4	2483.500	39.60	-7.37	32.23	54.00	-21.77	AVG			
5	4924.050	56.29	0.34	56.63	74.00	-17.37	peak			
6	4924.050	50.38	0.34	50.72	54.00	-3.28	AVG			
7	7386.077	50.44	3.39	53.83	74.00	-20.17	peak			
8	7386.077	44.54	3.39	47.93	54.00	-6.07	AVG			



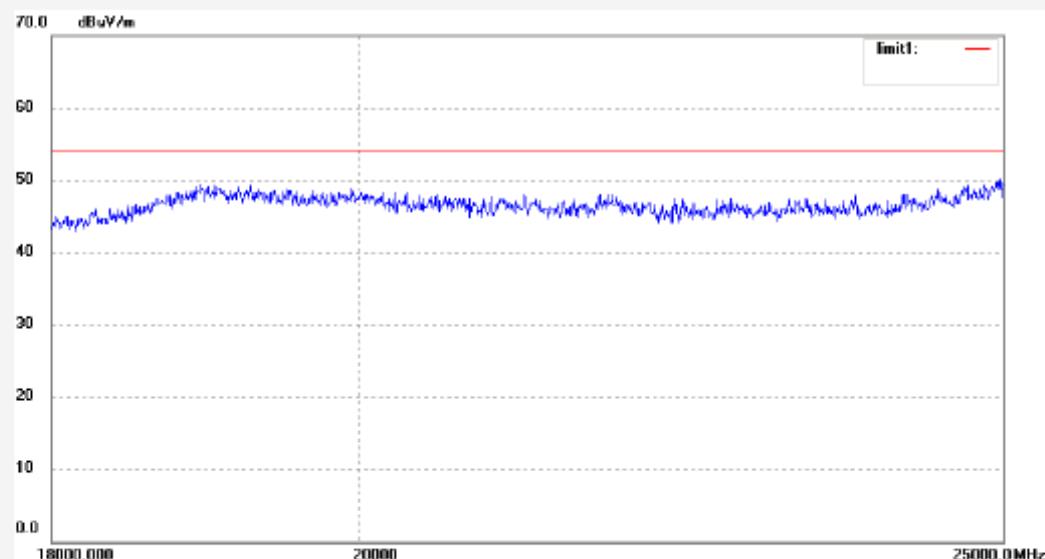
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.:	RTTE #5908	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2011/09/04
Temp.(C)/Hum.(%)	25 C / 50 %	Time:	11:09:25
EUT:	HDD multimedia player	Engineer Signature:	STAR
Mode:	TX Channel 11 (802.11b)	Distance:	3m
Model:	Xtreamer Sidewinder 2		
Manufacturer:	UNICORN		

Note: Report No.:ATE20111766



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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Job No.: RTTE #5909	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2011/09/04									
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11:13:52									
EUT: HDD multimedia player	Engineer Signature: STAR									
Mode: TX Channel 11 (802.11b)	Distance: 3m									
Model: Xtreamer Sidewinder 2										
Manufacturer: UNICORN										
Note: Report No.:ATE20111766										
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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Job No.: RTTE #5875	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2011/09/03									
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 15:34:25									
EUT: HDD multimedia player	Engineer Signature: STAR									
Mode: TX Channel 1 (802.11g)	Distance: 3m									
Model: Xtreamer Sidewinder 2										
Manufacturer: UNICORN										
Note: Report No.:ATE20111766										
<p>The graph displays the measured reading (blue line) and the limit (red line) in dBuV/m versus frequency in MHz. The x-axis ranges from 30.000 to 1000.0 MHz, and the y-axis ranges from 0.0 to 70.0 dBuV/m. The reading shows a general upward trend, starting around 20 dBuV/m at 30 MHz and reaching approximately 32 dBuV/m at 1000 MHz. The limit is a stepped red line, starting at 40 dBuV/m from 30 MHz to 80 MHz, then jumping to 45 dBuV/m until 300 MHz, where it remains constant up to 1000 MHz.</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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Job No.: RTTE #5874

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2011/09/03

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

Time: 15:30:21

EUT: HDD multimedia player

Engineer Signature: STAR

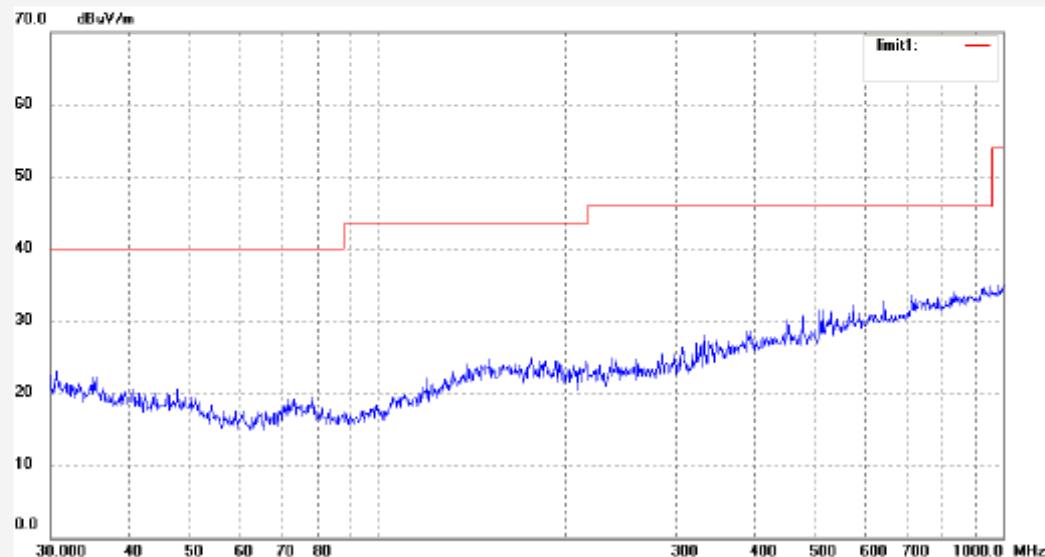
Mode: TX Channel 1 (802.11g)

Distance: 3m

Model: Xtreamer Sidewinder 2

Manufacturer: UNICORN

Note: Report No.:ATE20111766



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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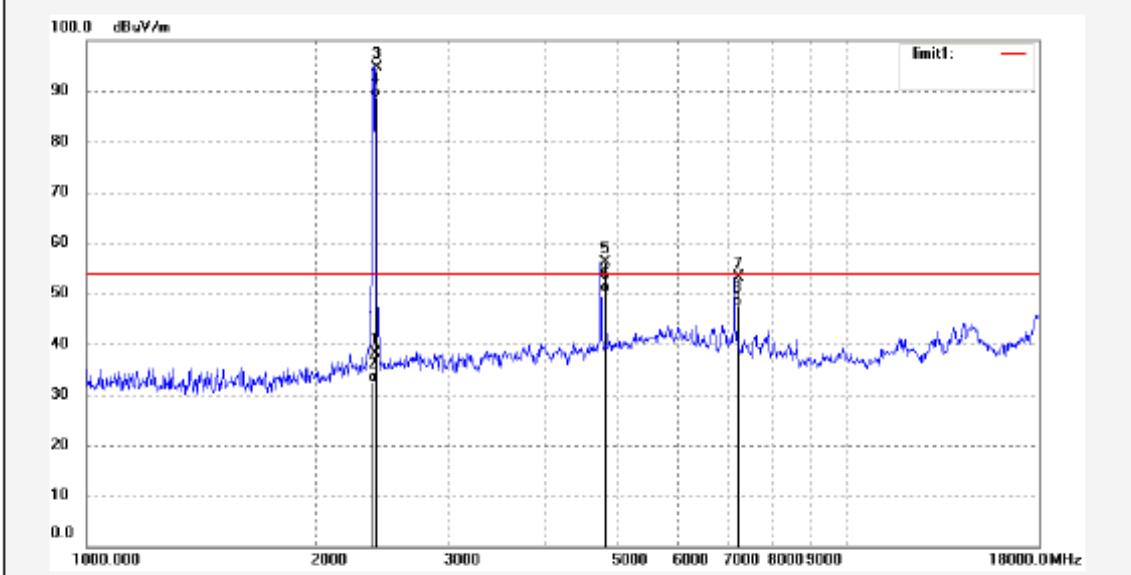


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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.:	RTTE #5892	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2011/09/04
Temp.(C)/Hum.(%)	25 C / 50 %	Time:	9:40:59
EUT:	HDD multimedia player	Engineer Signature:	STAR
Mode:	TX Channel 1 (802.11g)	Distance:	3m
Model:	Xtreamer Sidewinder 2		
Manufacturer:	UNICORN		
Note: Report No.:ATE20111766			



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	45.68	-7.46	38.22	74.00	-35.78	peak			
2	2400.000	39.72	-7.46	32.26	54.00	-21.74	AVG			
3	2412.000	102.06	-7.43	94.63	-	-	peak			
4	2412.000	96.09	-7.43	88.66	-	-	AVG			
5	4824.054	56.22	-0.19	56.03	74.00	-17.97	peak			
6	4824.054	50.38	-0.19	50.19	54.00	-3.81	AVG			
7	7236.080	50.15	3.05	53.20	74.00	-20.80	peak			
8	7236.080	44.23	3.05	47.28	54.00	-6.72	AVG			

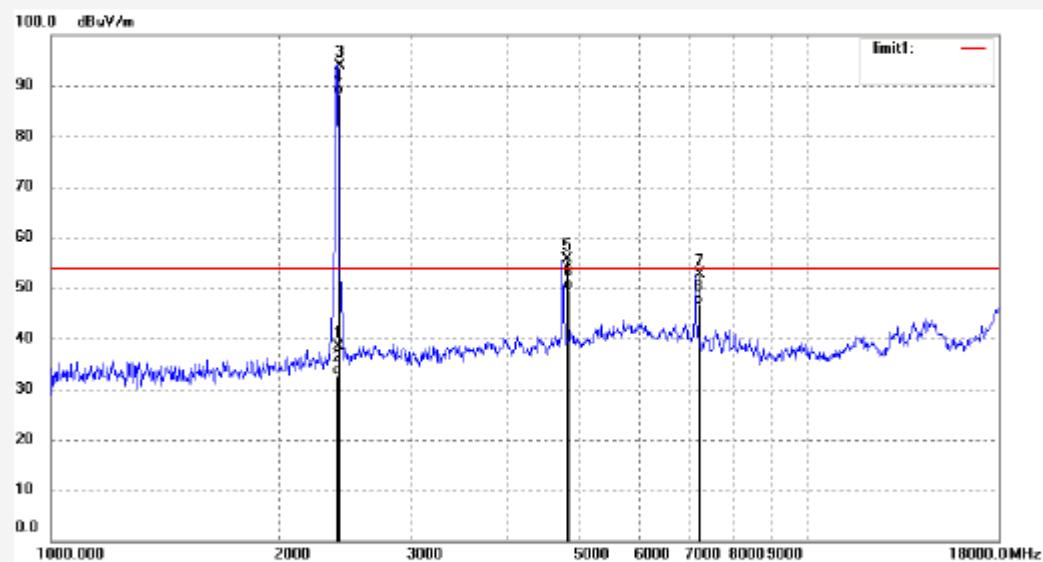


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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RTTE #5893	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 9:45:27
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 1 (802.11g)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	
Note: Report No.:ATE20111766	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	45.88	-7.46	38.42	74.00	-35.58	peak			
2	2400.000	39.98	-7.46	32.52	54.00	-21.48	AVG			
3	2412.000	101.43	-7.43	94.00	-	-	peak			
4	2412.000	95.51	-7.43	88.08	-	-	AVG			
5	4824.054	55.72	-0.19	55.53	74.00	-18.47	peak			
6	4824.054	49.80	-0.19	49.61	54.00	-4.39	AVG			
7	7236.080	49.46	3.05	52.51	74.00	-21.49	peak			
8	7236.080	43.58	3.05	46.63	54.00	-7.37	AVG			



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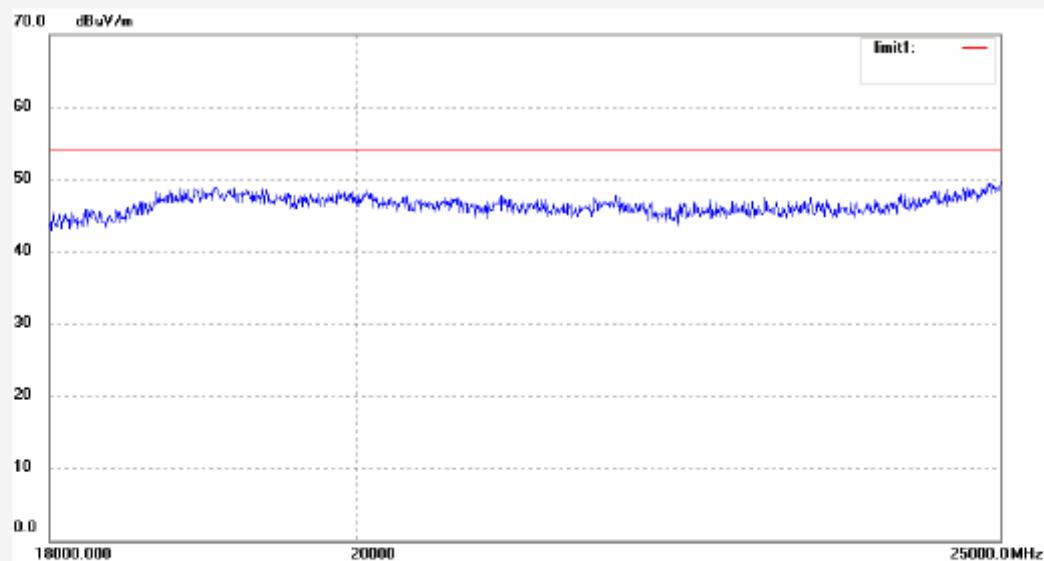
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: RTTE #5911
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp. (C)/Hum.(%) 25 C / 50 %
EUT: HDD multimedia player
Mode: TX Channel 1 (802.11g)
Model: Xstreamer Sidewinder 2
Manufacturer: UNICORN

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2011/09/04
Time: 11:25:08
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20111766



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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Job No.: RTTE #5910

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2011/09/04

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

Time: 11:20:46

EUT: HDD multimedia player

Engineer Signature: STAR

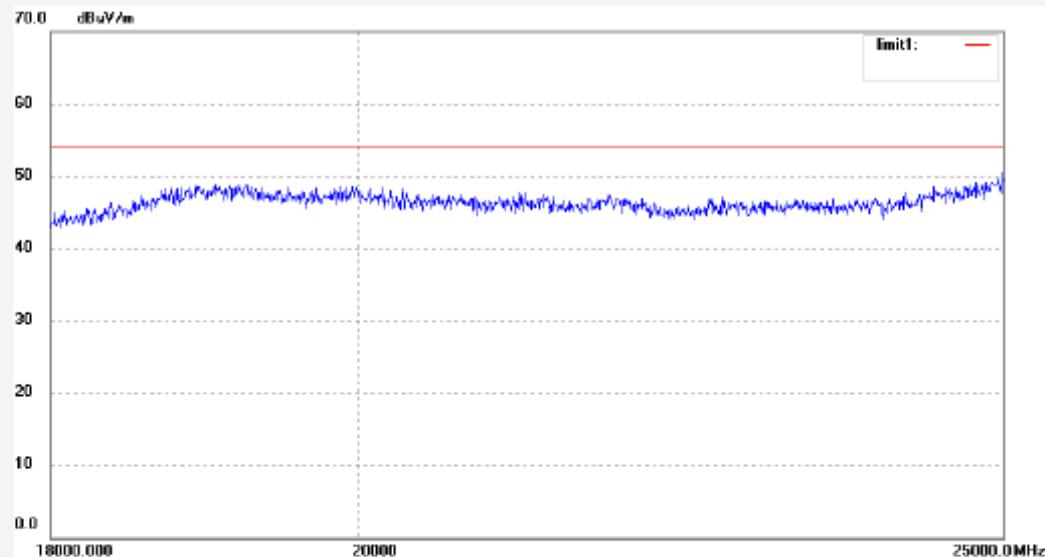
Mode: TX Channel 1 (802.11g)

Distance: 3m

Model: Xtreamer Sidewinder 2

Manufacturer: UNICORN

Note: Report No.:ATE20111766



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

Job No.: RTTE #5876	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2011/09/03									
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 15:39:32									
EUT: HDD multimedia player	Engineer Signature: STAR									
Mode: TX Channel 6 (802.11g)	Distance: 3m									
Model: Xtreamer Sidewinder 2										
Manufacturer: UNICORN										
Note: Report No.:ATE20111766										
<p>The graph displays the measured reading (blue line) and the limit (red line) in dBuV/m versus frequency in MHz. The x-axis ranges from 30.000 to 1000.0 MHz, and the y-axis ranges from 0.0 to 70.0 dBuV/m. The reading shows a sharp increase starting around 800 MHz, reaching approximately 55 dBuV/m at 1000 MHz. The limit is a flat red line at approximately 42 dBuV/m across the entire 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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Fax:+86-0755-26503396

Job No.:	RTTE #5877	Polarization:	Vertical							
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz							
Test item:	Radiation Test	Date:	2011/09/03							
Temp.(C)/Hum.(%)	25 C / 50 %	Time:	15:43:40							
EUT:	HDD multimedia player	Engineer Signature:	STAR							
Mode:	TX Channel 6 (802.11g)	Distance:	3m							
Model:	Xtreamer Sidewinder 2									
Manufacturer:	UNICORN									
Note: Report No.:ATE20111766										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

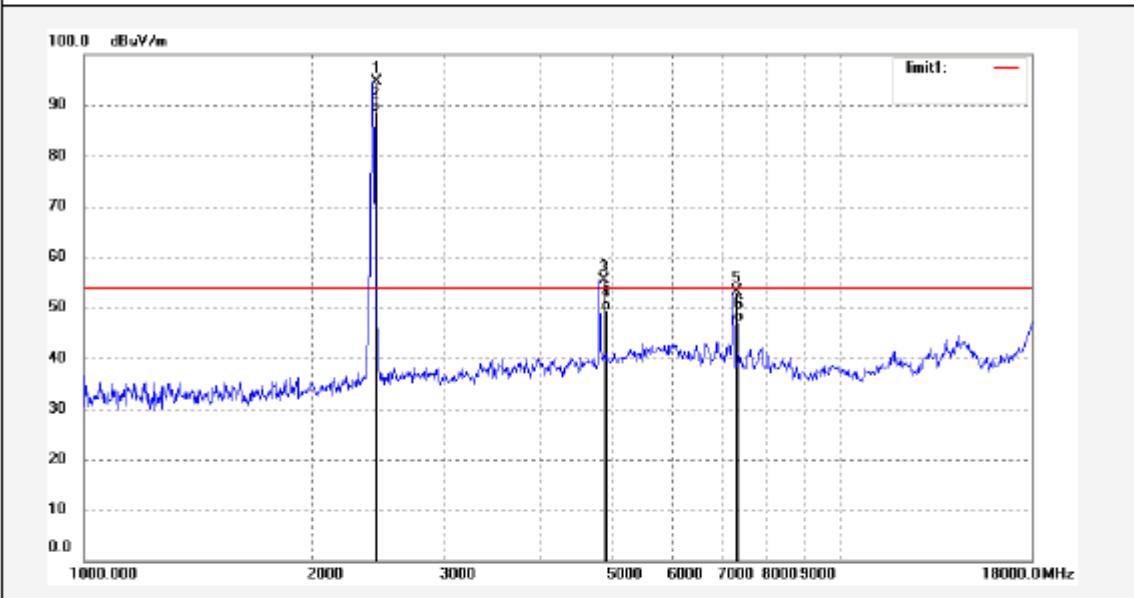


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Job No.: RTTE #5895	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 9:54:57
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 6 (802.11g)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	
Note: Report No.:ATE20111766	



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	101.92	-7.36	94.56	-	-	peak			
2	2437.000	96.07	-7.36	88.71	-	-	Avg			
3	4874.052	55.20	0.09	55.29	74.00	-18.71	peak			
4	4874.052	49.23	0.09	49.32	54.00	-4.68	Avg			
5	7311.076	49.82	3.22	53.04	74.00	-20.96	peak			
6	7311.076	43.91	3.22	47.13	54.00	-6.87	Avg			

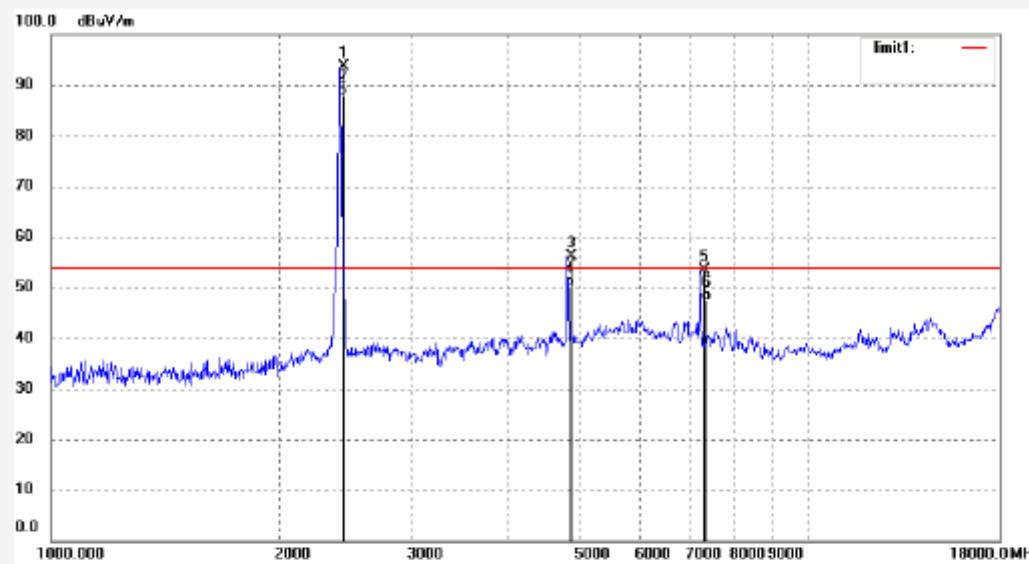


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Site: 966 chamber
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Job No.: RTTE #5894	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 9:50:35
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 6 (802.11g)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	
Note: Report No.:ATE20111766	



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	101.10	-7.36	93.74	-	-	peak			
2	2437.000	95.19	-7.36	87.83	-	-	Avg			
3	4874.052	55.95	0.09	56.04	74.00	-17.96	peak			
4	4874.052	50.06	0.09	50.15	54.00	-3.85	Avg			
5	7311.076	50.06	3.22	53.28	74.00	-20.72	peak			
6	7311.076	44.19	3.22	47.41	54.00	-6.59	Avg			



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Site: 966 chamber

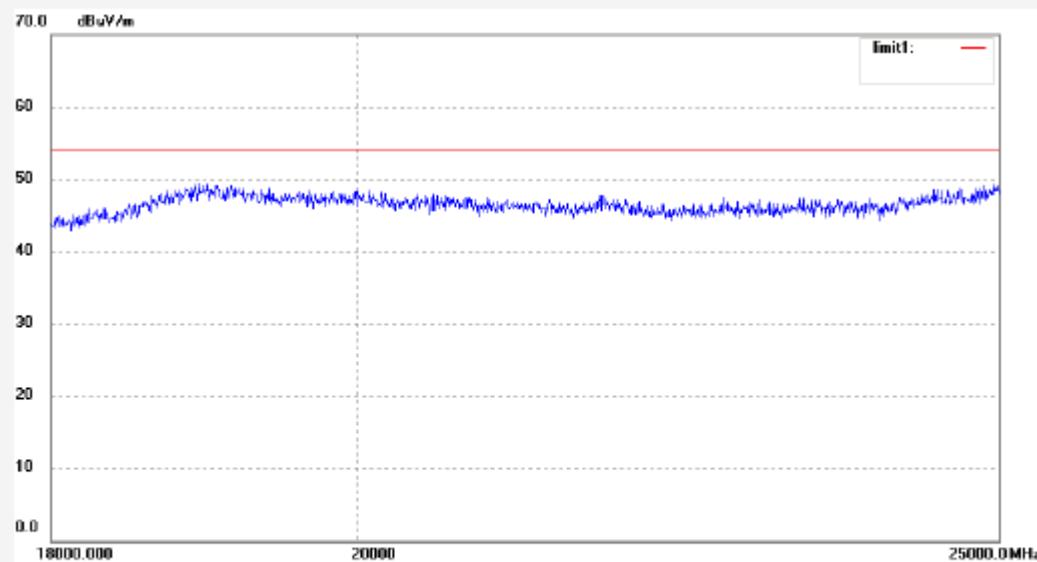
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RTTE #5912
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 50 %
 EUT: HDD multimedia player
 Mode: TX Channel 6 (802.11g)
 Model: Xtreamer Sidewinder 2
 Manufacturer: UNICORN

Polarization: Horizontal
 Power Source: AC 120V/60Hz
 Date: 2011/09/04
 Time: 11:30:31
 Engineer Signature: STAR
 Distance: 3m

Note: Report No.:ATE20111766



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.: RTTE #5913

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2011/09/04

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

Time: 11:34:51

EUT: HDD multimedia player

Engineer Signature: STAR

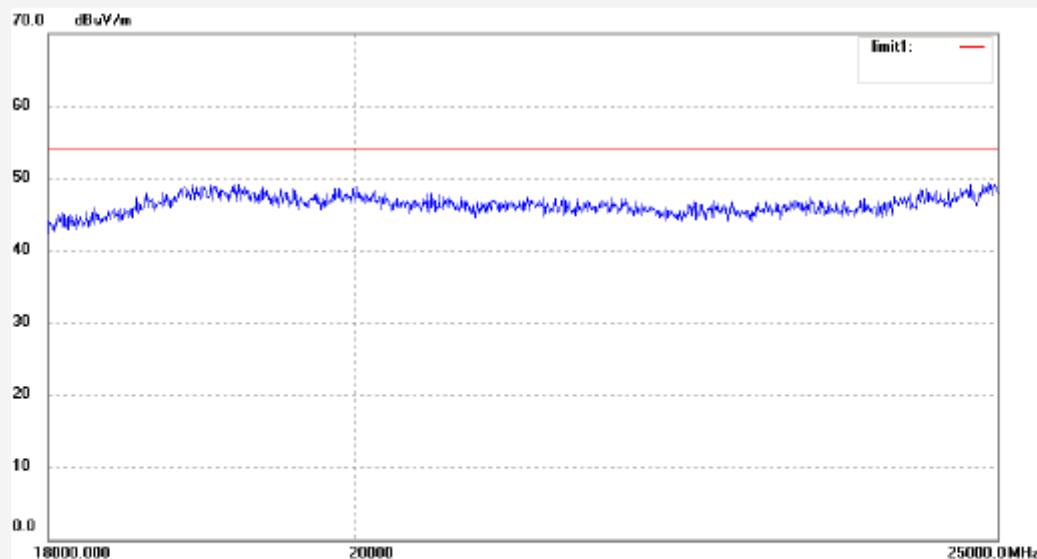
Mode: TX Channel 6 (802.11g)

Distance: 3m

Model: Xtreamer Sidewinder 2

Manufacturer: UNICORN

Note: Report No.:ATE20111766



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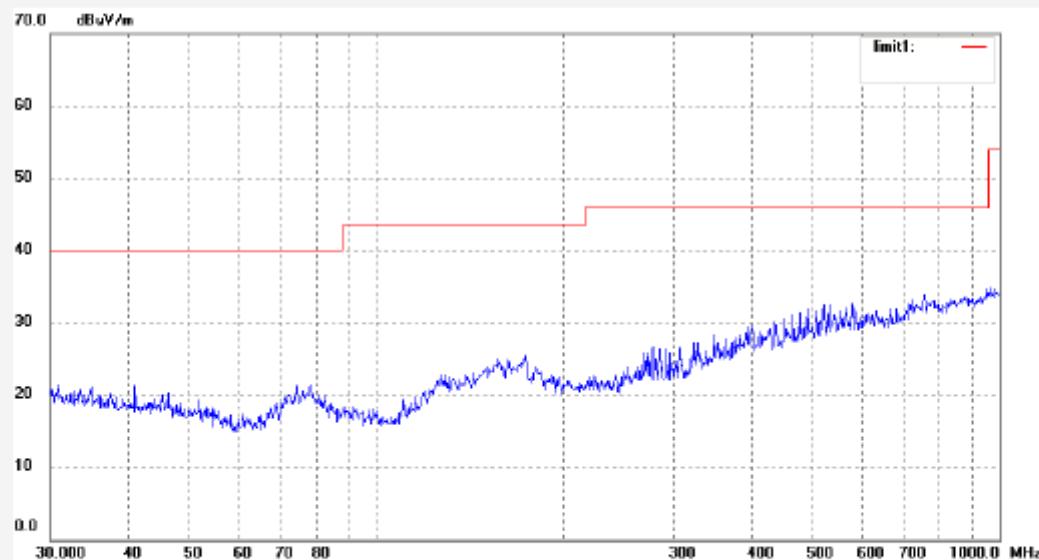
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: RTTE #5879
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 50 %
EUT: HDD multimedia player
Mode: TX Channel 11 (802.11g)
Model: Xtreamer Sidewinder 2
Manufacturer: UNICORN

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2011/09/03
Time: 15:53:06
Engineer Signature: STAR
Distance: 3m

Note: Report No.:ATE20111766



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

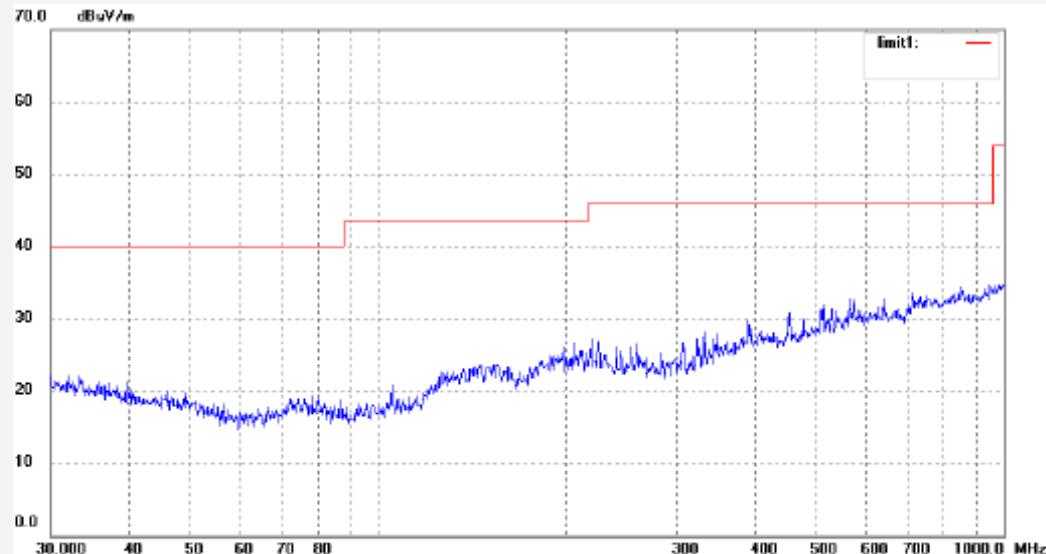
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RTTE #5878
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 50 %
 EUT: HDD multimedia player
 Mode: TX Channel 11 (802.11g)
 Model: Xtreamer Sidewinder 2
 Manufacturer: UNICORN

Polarization: Vertical
 Power Source: AC 120V/60Hz
 Date: 2011/09/03
 Time: 15:48:55
 Engineer Signature: STAR
 Distance: 3m

Note: Report No.:ATE20111766



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
	30.000	20		20	40	-20				



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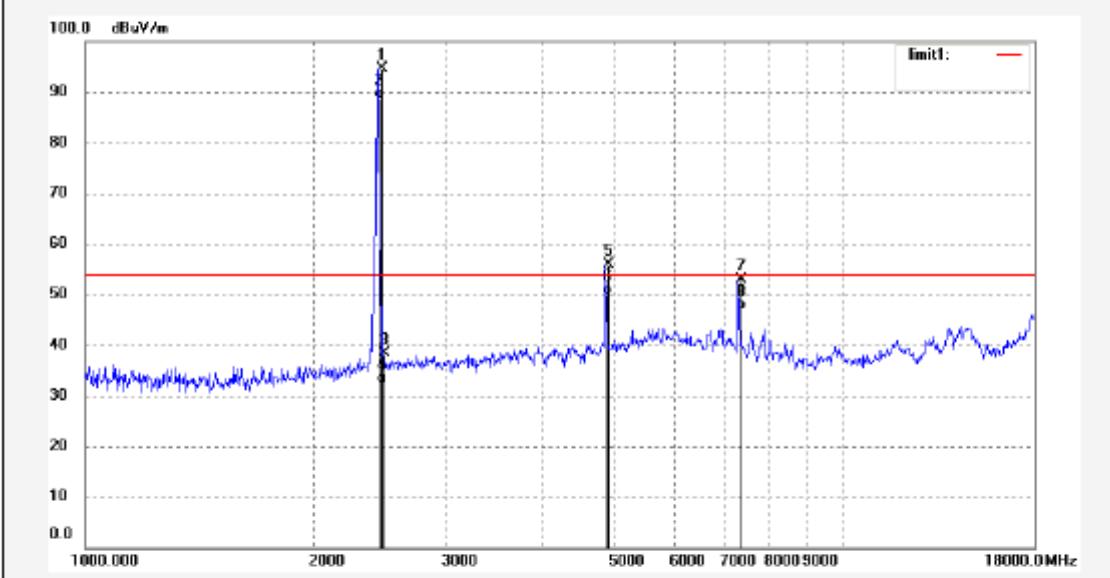
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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RTTE #5896	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 10:00:24
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 11 (802.11g)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	
Note: Report No.:ATE20111766	



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	101.95	-7.35	94.60	-	-	peak			
2	2462.000	96.01	-7.35	88.66	-	-	AVG			
3	2483.500	45.65	-7.37	38.28	74.00	-35.72	peak			
4	2483.500	39.66	-7.37	32.29	54.00	-21.71	AVG			
5	4924.051	55.46	0.34	55.80	74.00	-18.20	peak			
6	4924.051	49.58	0.34	49.92	54.00	-4.08	AVG			
7	7386.079	49.37	3.39	52.76	74.00	-21.24	peak			
8	7386.079	43.46	3.39	46.85	54.00	-7.15	AVG			

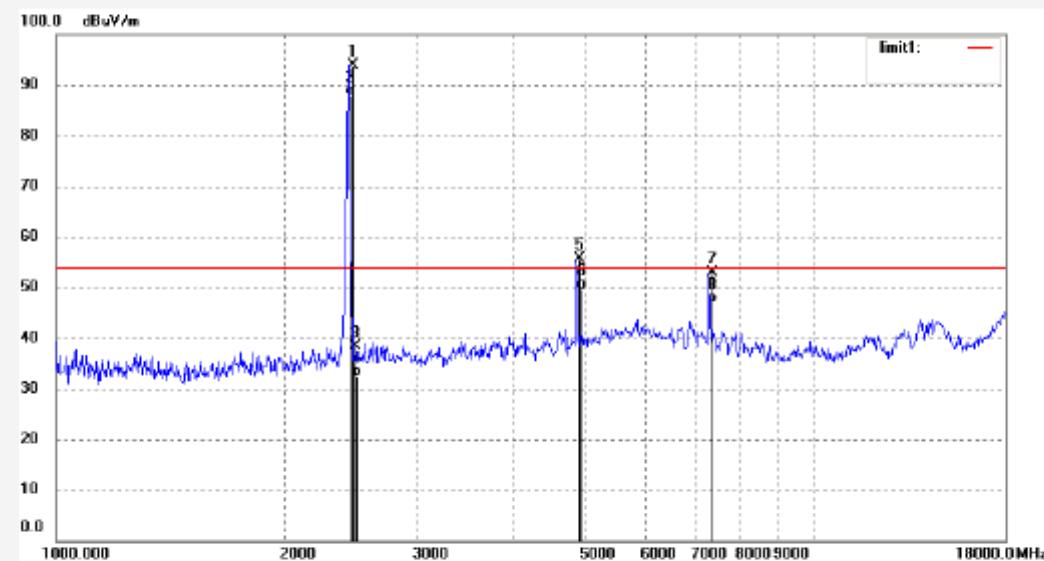


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Site: 966 chamber
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Job No.: RTTE #5897	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp. (C)/Hum.(%) 25 C / 50 %	Time: 10:04:50
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 11 (802.11g)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	
Note: Report No.:ATE20111766	



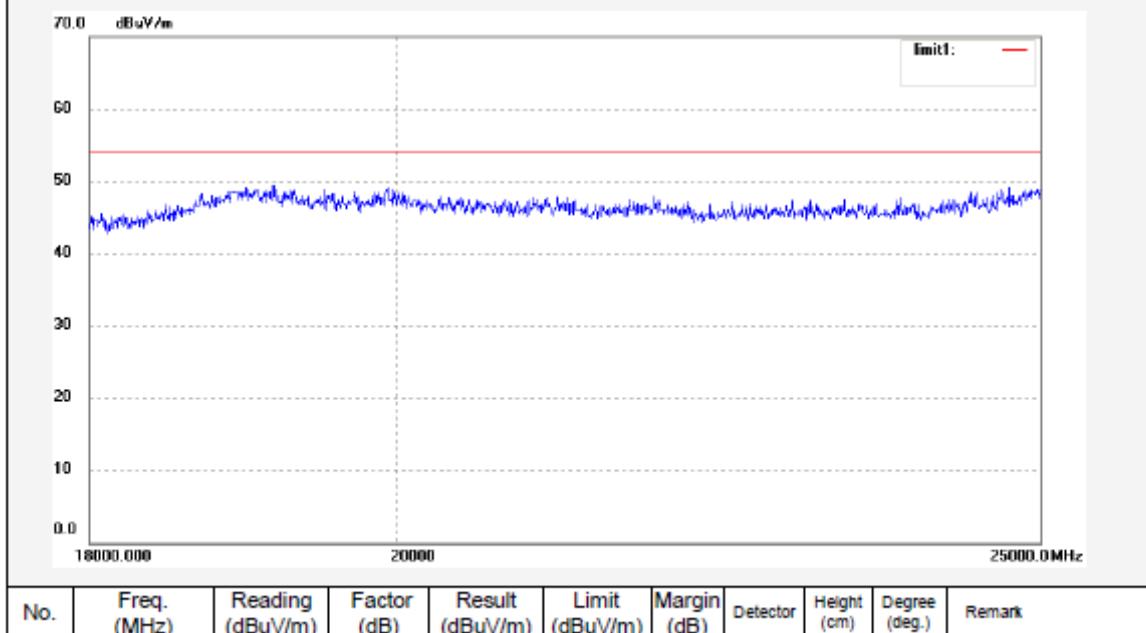
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.000	101.29	-7.35	93.94	-	-	peak			
2	2462.000	95.34	-7.35	87.99	-	-	AVG			
3	2483.500	45.72	-7.37	38.35	74.00	-35.65	peak			
4	2483.500	39.80	-7.37	32.43	54.00	-21.57	AVG			
5	4924.051	55.29	0.34	55.63	74.00	-18.37	peak			
6	4924.051	49.30	0.34	49.64	54.00	-4.36	AVG			
7	7386.079	49.55	3.39	52.94	74.00	-21.06	peak			
8	7386.079	43.52	3.39	46.91	54.00	-7.09	AVG			



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Job No.: RTTE #5915	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11:44:35
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 11 (802.11g)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	
Note: Report No.:ATE20111766	





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Job No.:	RTTE #5914	Polarization:	Vertical							
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz							
Test item:	Radiation Test	Date:	2011/09/04							
Temp.(C)/Hum.(%)	25 C / 50 %	Time:	11:40:09							
EUT:	HDD multimedia player	Engineer Signature:	STAR							
Mode:	TX Channel 11 (802.11g)	Distance:	3m							
Model:	Xtreamer Sidewinder 2									
Manufacturer:	UNICORN									
Note: Report No.:ATE20111766										
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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Job No.: RTTE #5880	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2011/09/03									
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 16:01:35									
EUT: HDD multimedia player	Engineer Signature: STAR									
Mode: TX Channel 1 (802.11n)	Distance: 3m									
Model: Xtreamer Sidewinder 2										
Manufacturer: UNICORN										
Note: Report No.:ATE20111766										
<p>The graph displays the measured reading (blue line) against the required limit (red line) across a frequency range from 30 MHz to 1 GHz. The Y-axis represents dBuV/m, ranging from 0.0 to 70.0. The X-axis represents MHz, ranging from 30.000 to 1000.0. The reading shows a general upward trend, starting around 20 dBuV/m at 30 MHz and reaching approximately 35 dBuV/m at 1 GHz. The limit is a flat red line at 40 dBuV/m. A dashed blue line represents the margin, which is the difference between the limit and the reading. It starts at about 20 dB at 30 MHz and decreases to near zero by 1 GHz.</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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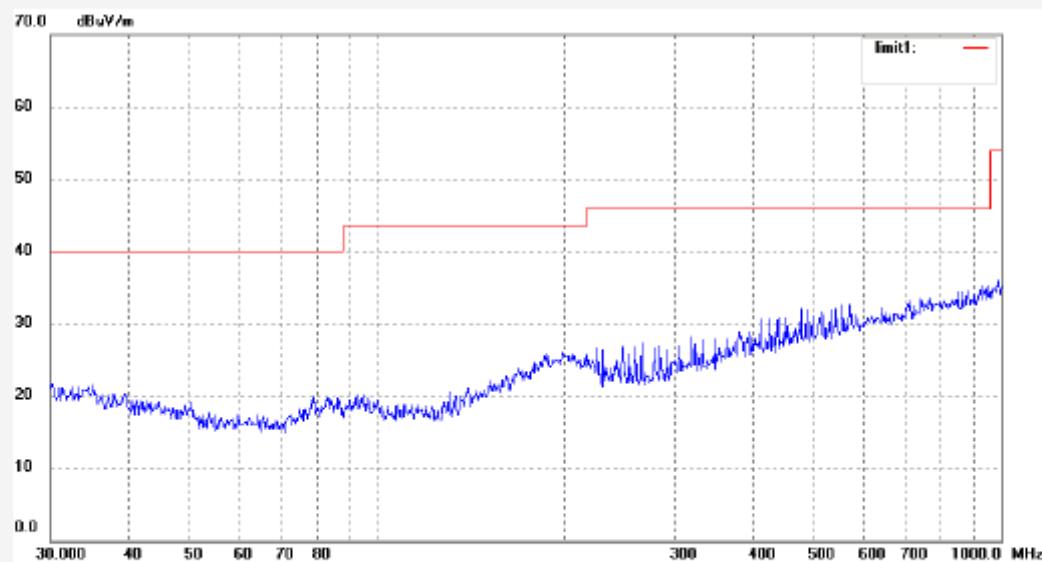
Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RTTE #5881
 Standard: FCC Class B 3M Radiated
 Test item: Radiation Test
 Temp.(C)/Hum.(%) 25 C / 50 %
 EUT: HDD multimedia player
 Mode: TX Channel 1 (802.11n)
 Model: Xtreamer Sidewinder 2
 Manufacturer: UNICORN

Polarization: Vertical
 Power Source: AC 120V/60Hz
 Date: 2011/09/03
 Time: 16:05:42
 Engineer Signature: STAR
 Distance: 3m

Note: Report No.:ATE20111766



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
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Fax:+86-0755-26503396

Job No.: RTTE #5899

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2011/09/04

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

Time: 10:18:56

EUT: HDD multimedia player

Engineer Signature: STAR

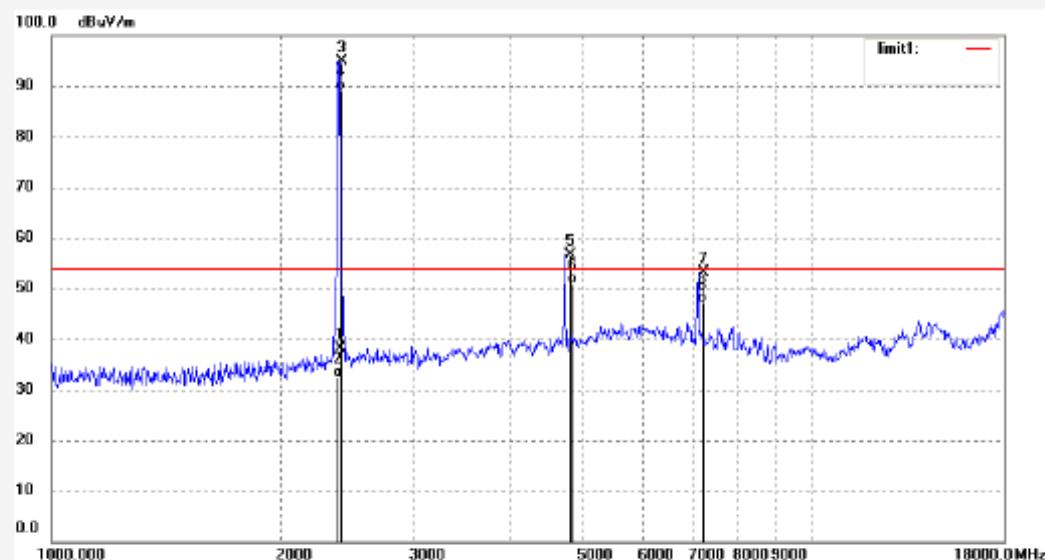
Mode: TX Channel 1 (802.11n)

Distance: 3m

Model: Xtreamer Sidewinder 2

Manufacturer: UNICORN

Note: Report No.:ATE20111766



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	45.71	-7.46	38.25	74.00	-35.75	peak			
2	2400.000	39.76	-7.46	32.30	54.00	-21.70	AVG			
3	2412.000	102.36	-7.43	94.93	-	-	peak			
4	2412.000	96.47	-7.43	89.04	-	-	AVG			
5	4824.056	56.90	-0.19	56.71	74.00	-17.39	peak			
6	4824.056	50.97	-0.19	50.78	54.00	-3.22	AVG			
7	7236.082	50.03	3.05	53.08	74.00	-20.92	peak			
8	7236.082	44.07	3.05	47.12	54.00	-6.88	AVG			



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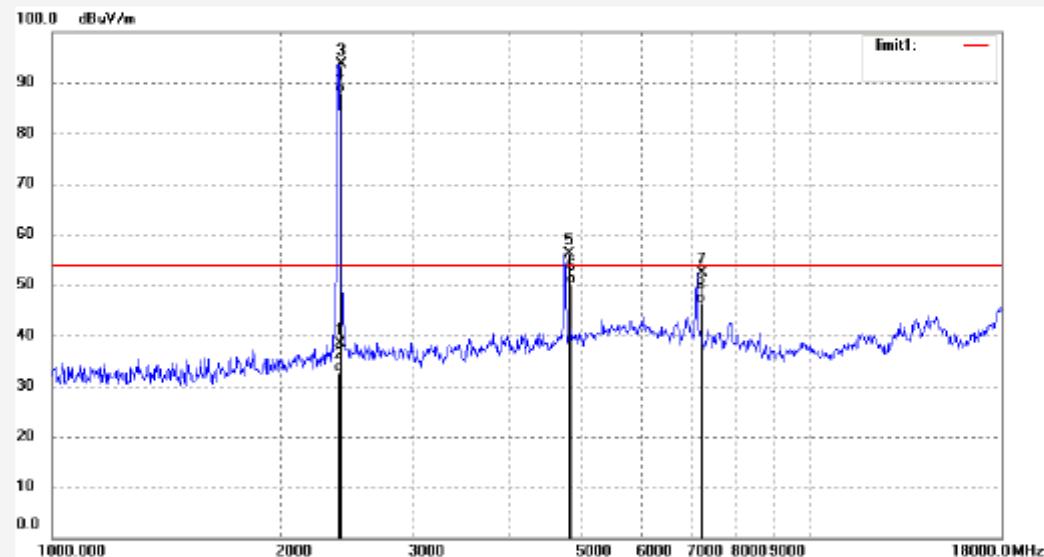
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Site: 966 chamber

Tel:+86-0755-26503290

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Job No.:	RTTE #5898	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2011/09/04
Temp.(C)/Hum.(%)	25 C / 50 %	Time:	10:14:27
EUT:	HDD multimedia player	Engineer Signature:	STAR
Mode:	TX Channel 1 (802.11n)	Distance:	3m
Model:	Xtreamer Sidewinder 2		
Manufacturer:	UNICORN		
Note: Report No.:ATE20111766			



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2400.000	45.96	-7.46	38.50	74.00	-35.50	peak			
2	2400.000	40.06	-7.46	32.60	54.00	-21.40	AVG			
3	2412.000	101.16	-7.43	93.73	-	-	peak			
4	2412.000	95.25	-7.43	87.82	-	-	AVG			
5	4824.056	56.24	-0.19	56.05	74.00	-17.95	peak			
6	4824.056	50.35	-0.19	50.16	54.00	-3.84	AVG			
7	7236.082	49.29	3.05	52.34	74.00	-21.66	peak			
8	7236.082	43.38	3.05	46.43	54.00	-7.57	AVG			



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Fax:+86-0755-26503396

Job No.: RTTE #5916	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2011/09/04									
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 11:52:09									
EUT: HDD multimedia player	Engineer Signature: STAR									
Mode: TX Channel 1 (802.11n)	Distance: 3m									
Model: Xtreamer Sidewinder 2										
Manufacturer: UNICORN										
Note: Report No.:ATE20111766										
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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Job No.:	RTTE #5917	Polarization:	Vertical							
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz							
Test item:	Radiation Test	Date:	2011/09/04							
Temp.(C)/Hum.(%)	25 C / 50 %	Time:	11:56:43							
EUT:	HDD multimedia player	Engineer Signature:	STAR							
Mode:	TX Channel 1 (802.11n)	Distance:	3m							
Model:	Xtreamer Sidewinder 2									
Manufacturer:	UNICORN									
Note: Report No.:ATE20111766										
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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Job No.: RTTE #5883	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2011/09/03									
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 16:14:58									
EUT: HDD multimedia player	Engineer Signature: STAR									
Mode: TX Channel 6 (802.11n)	Distance: 3m									
Model: Xtreamer Sidewinder 2										
Manufacturer: UNICORN										
Note: Report No.:ATE20111766										
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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Job No.: RTTE #5882	Polarization: Vertical									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2011/09/03									
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 16:10:50									
EUT: HDD multimedia player	Engineer Signature: STAR									
Mode: TX Channel 6 (802.11n)	Distance: 3m									
Model: Xtreamer Sidewinder 2										
Manufacturer: UNICORN										
Note: Report No.:ATE20111766										
<p>The graph displays the measured reading (blue line) and the limit (red line) in dBuV/m versus frequency in MHz. The x-axis ranges from 30.000 to 1000.0 MHz, and the y-axis ranges from 0.0 to 70.0 dBuV/m. The reading starts at approximately 20 dBuV/m at 30 MHz, rises to about 18 dBuV/m by 40 MHz, and then fluctuates between 15 and 20 dBuV/m until 80 MHz. At 80 MHz, it drops sharply to around 18 dBuV/m and remains relatively flat until 300 MHz, where it begins to rise again, reaching approximately 30 dBuV/m at 1000 MHz. The limit is a stepped red line starting at 40 dBuV/m from 30 MHz to 80 MHz, then jumping to 45 dBuV/m until 300 MHz, and finally jumping to 53 dBuV/m at 1000 MHz.</p>										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

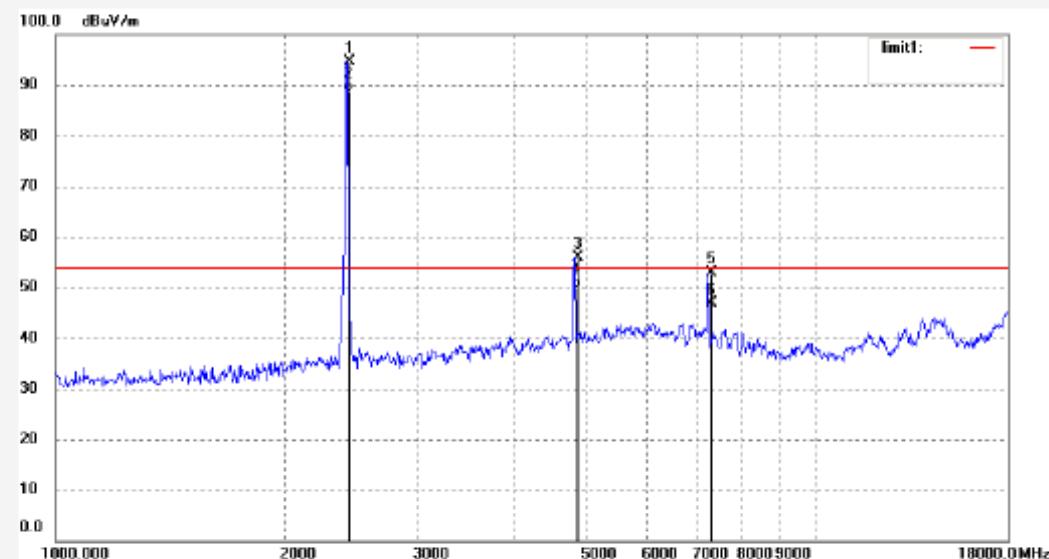


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Job No.: RTTE #5900	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 10:24:18
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 6 (802.11n)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	
Note: Report No.:ATE20111766	



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	101.95	-7.36	94.59	-	-	peak			
2	2437.000	96.02	-7.36	88.66	-	-	Avg			
3	4874.055	55.82	0.09	55.91	74.00	-18.09	peak			
4	4874.055	49.90	0.09	49.99	54.00	-4.01	Avg			
5	7311.080	49.70	3.22	52.92	74.00	-21.08	peak			
6	7311.080	43.78	3.22	47.00	54.00	-7.00	peak			



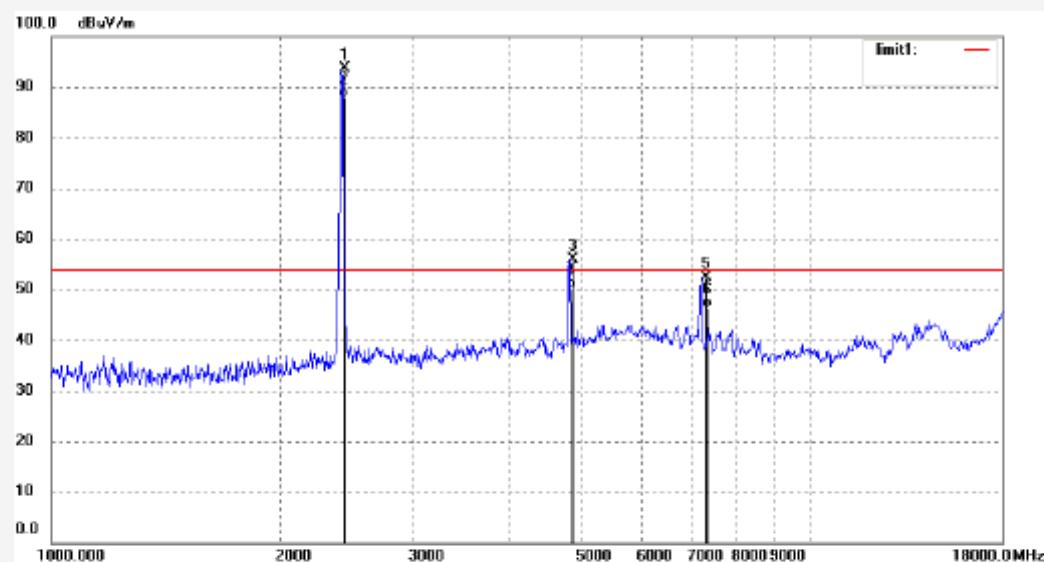
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Job No.:	RTTE #5901	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	2011/09/04
Temp.(C)/Hum.(%)	25 C / 50 %	Time:	10:28:46
EUT:	HDD multimedia player	Engineer Signature:	STAR
Mode:	TX Channel 6 (802.11n)	Distance:	3m
Model:	Xtreamer Sidewinder 2		
Manufacturer:	UNICORN		

Note: Report No.:ATE20111766



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	101.07	-7.36	93.71	-	-	peak			
2	2437.000	95.15	-7.36	87.79	-	-	Avg			
3	4874.055	55.91	0.09	56.00	74.00	-18.00	peak			
4	4874.055	50.00	0.09	50.09	54.00	-3.91	Avg			
5	7311.080	49.14	3.22	52.36	74.00	-21.64	peak			
6	7311.080	43.25	3.22	46.47	54.00	-7.53	Avg			



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Job No.: RTTE #5919	Polarization: Horizontal									
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz									
Test item: Radiation Test	Date: 2011/09/04									
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 12:05:30									
EUT: HDD multimedia player	Engineer Signature: STAR									
Mode: TX Channel 6 (802.11n)	Distance: 3m									
Model: Xtreamer Sidewinder 2										
Manufacturer: UNICORN										
Note: Report No.:ATE20111766										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

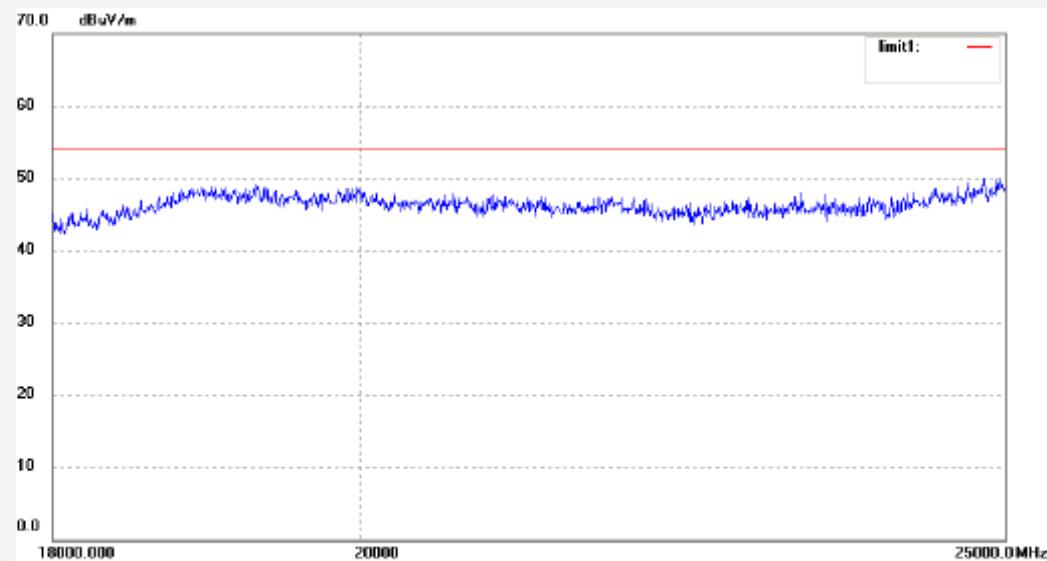


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Job No.: RTTE #5918	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 12:01:19
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 6 (802.11n)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	

Note: Report No.:ATE20111766



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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Job No.:	RTTE #5884	Polarization:	Horizontal							
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz							
Test item:	Radiation Test	Date:	2011/09/03							
Temp.(C)/Hum.(%)	25 C / 50 %	Time:	16:20:11							
EUT:	HDD multimedia player	Engineer Signature:	STAR							
Mode:	TX Channel 11 (802.11n)	Distance:	3m							
Model:	Xtreamer Sidewinder 2									
Manufacturer:	UNICORN									
Note: Report No.:ATE20111766										
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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Job No.:	RTTE #5885	Polarization:	Vertical							
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz							
Test item:	Radiation Test	Date:	2011/09/03							
Temp.(C)/Hum.(%)	25 C / 50 %	Time:	16:24:23							
EUT:	HDD multimedia player	Engineer Signature:	STAR							
Mode:	TX Channel 11 (802.11n)	Distance:	3m							
Model:	Xtreamer Sidewinder 2									
Manufacturer:	UNICORN									
Note: Report No.:ATE20111766										
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark

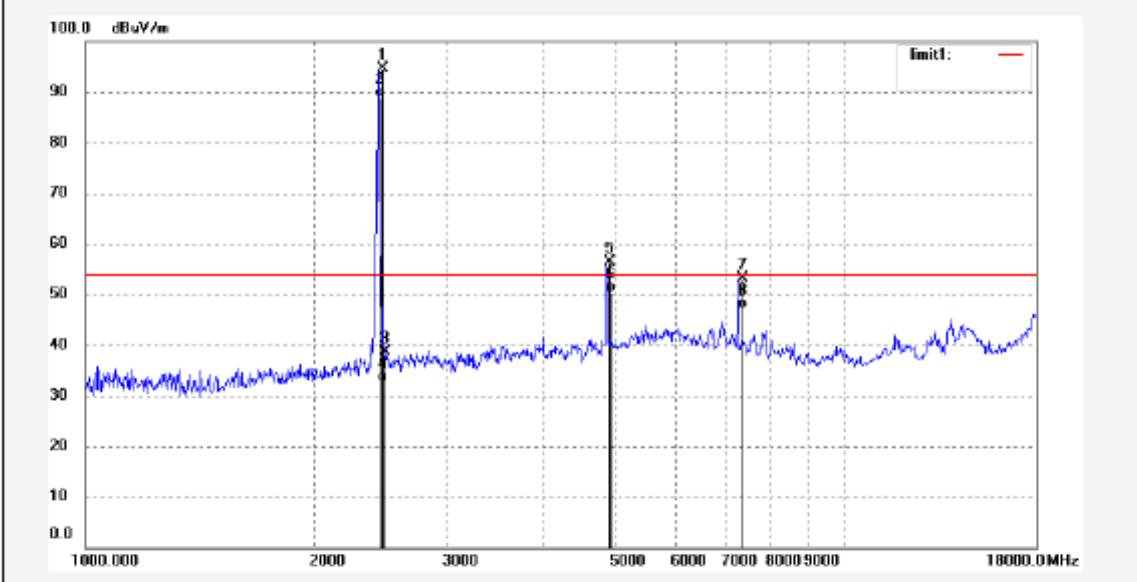


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Job No.: RTTE #5903	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 10:38:23
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 11 (802.11n)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	
Note: Report No.:ATE20111766	



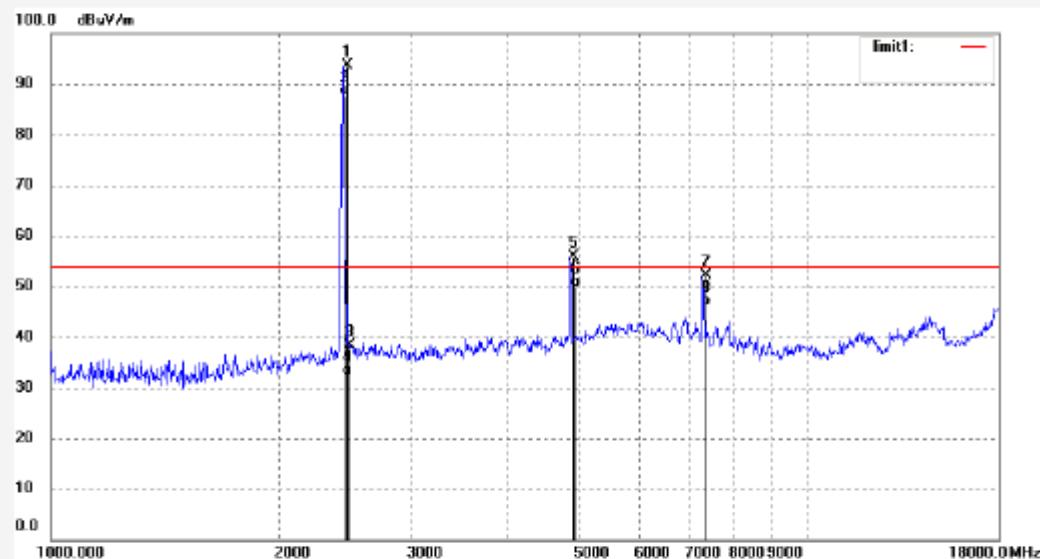
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2462.000	102.10	-7.35	94.75	-	-	peak			
2	2462.000	96.11	-7.35	88.76	-	-	AVG			
3	2483.500	45.89	-7.37	38.52	74.00	-35.48	peak			
4	2483.500	39.93	-7.37	32.56	54.00	-21.44	AVG			
5	4924.054	56.16	0.34	56.50	74.00	-17.50	peak			
6	4924.054	50.13	0.34	50.47	54.00	-3.53	AVG			
7	7368.079	49.80	3.34	53.14	74.00	-20.86	peak			
8	7368.079	43.83	3.34	47.17	54.00	-6.83	AVG			



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Job No.: RTTE #5902	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 10:33:57
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 11 (802.11n)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	
Note: Report No.:ATE20111766	



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	100.96	-7.35	93.61	-	-	peak			
2	2462.000	95.03	-7.35	87.68	-	-	AVG			
3	2483.500	45.72	-7.37	38.35	74.00	-35.65	peak			
4	2483.500	39.81	-7.37	32.44	54.00	-21.56	AVG			
5	4924.054	55.42	0.34	55.76	74.00	-18.24	peak			
6	4924.054	49.53	0.34	49.87	54.00	-4.13	AVG			
7	7386.079	48.69	3.39	52.08	74.00	-21.92	peak			
8	7386.079	42.77	3.39	46.16	54.00	-7.84	AVG			

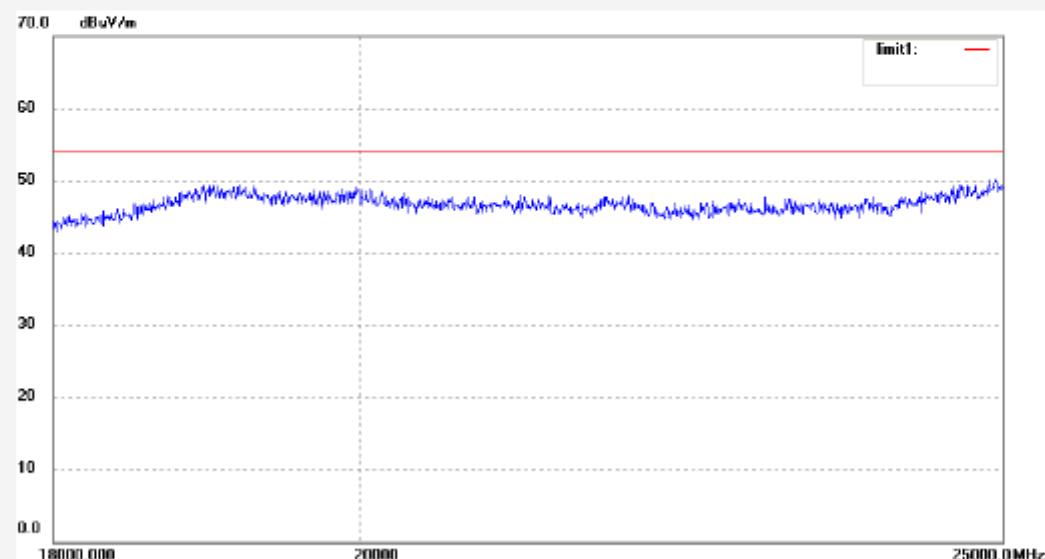


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Job No.: RTTE #5920	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 12:10:41
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 11 (802.11n)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	
Note: Report No.:ATE20111766	



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

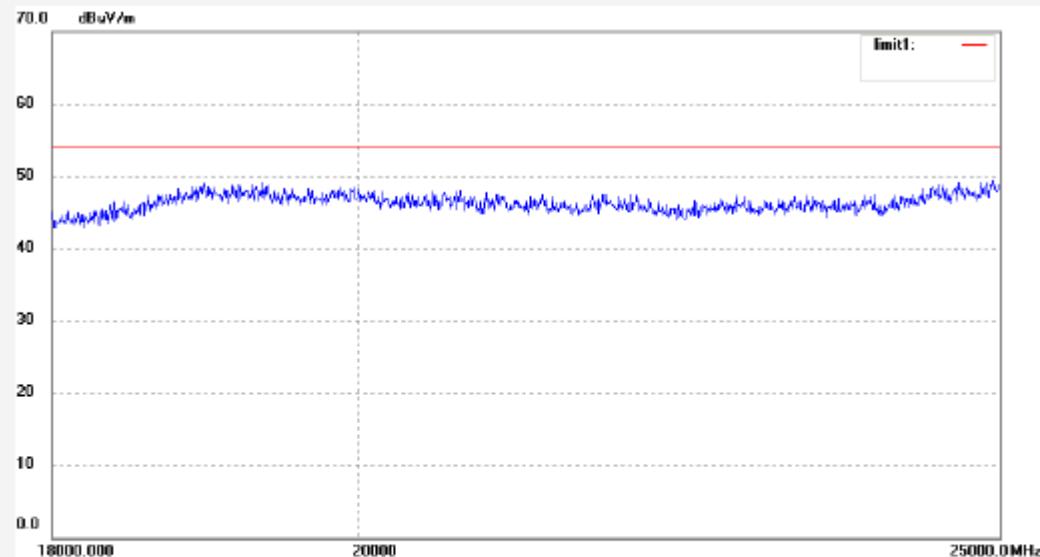


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Job No.: RTTE #5921	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2011/09/04
Temp.(C)/Hum.(%) 25 C / 50 %	Time: 12:15:08
EUT: HDD multimedia player	Engineer Signature: STAR
Mode: TX Channel 11 (802.11n)	Distance: 3m
Model: Xtreamer Sidewinder 2	
Manufacturer: UNICORN	

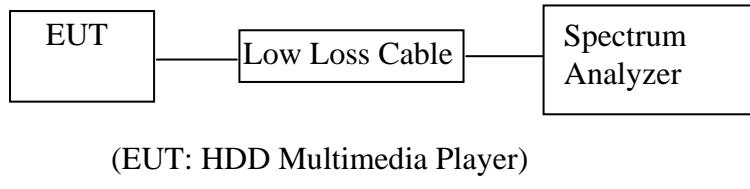
Note: Report No.:ATE20111766



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.HDD Multimedia Player (EUT)

Model Number	:	Xtreamer Sidewinder 2
Serial Number	:	N/A
Manufacturer	:	XTREAMER LIMITED

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.

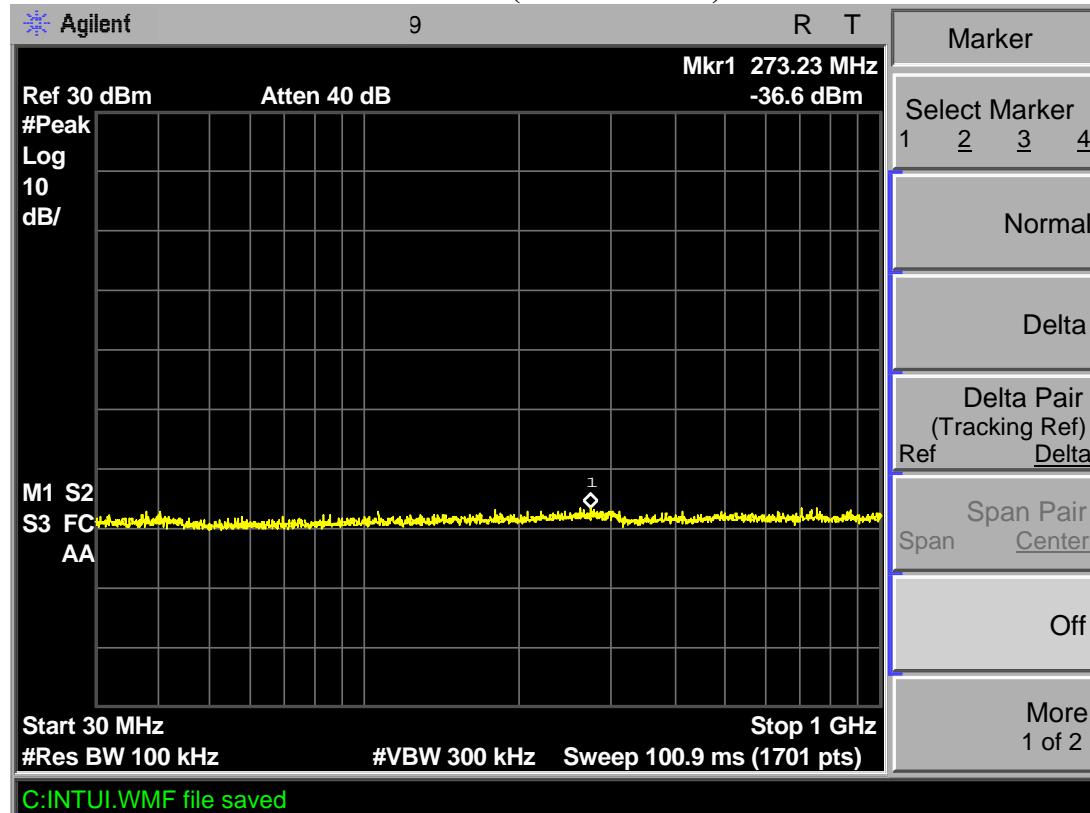
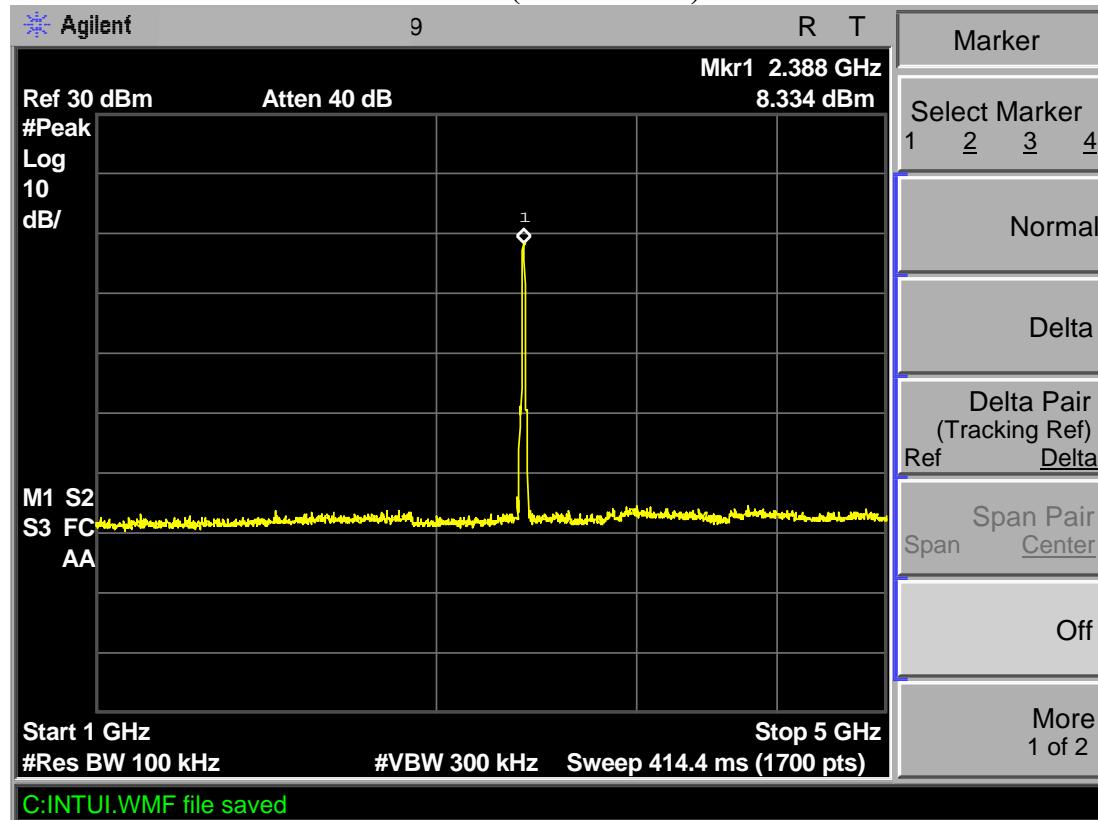
10.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

10.5.3.The Conducted Spurious Emission was measured and recorded.

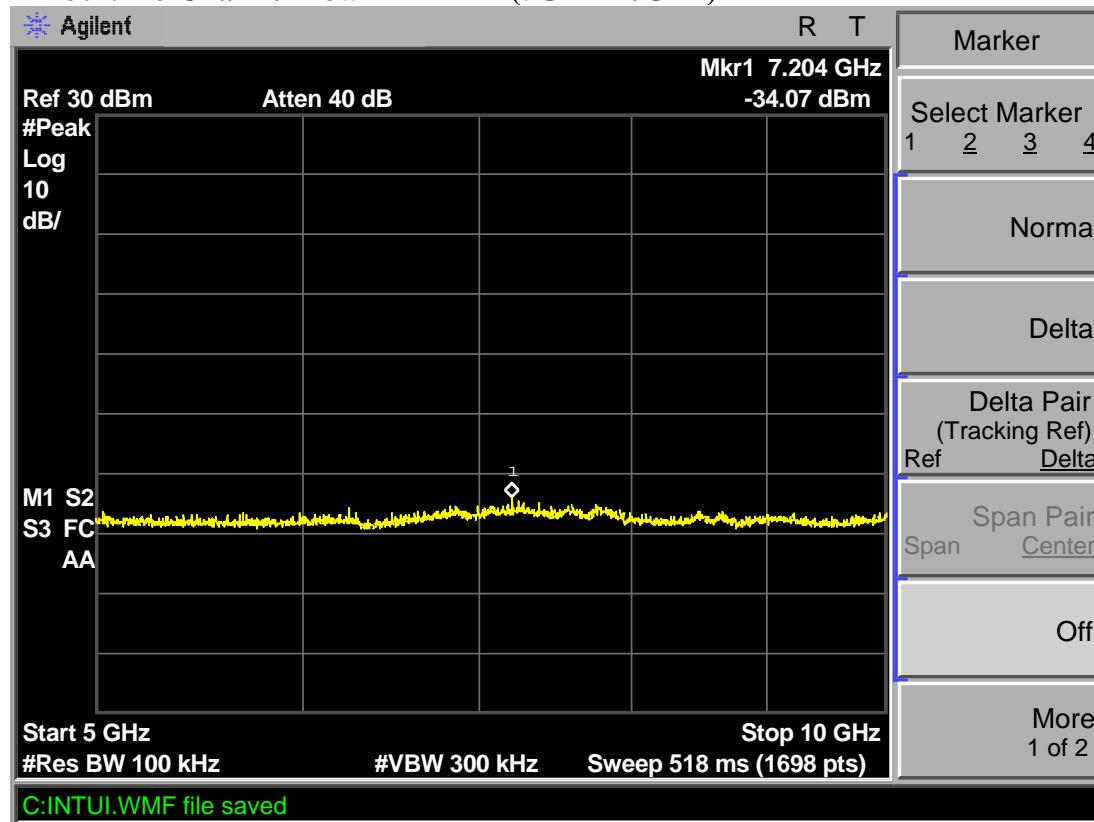
10.6.Test Result

Pass.

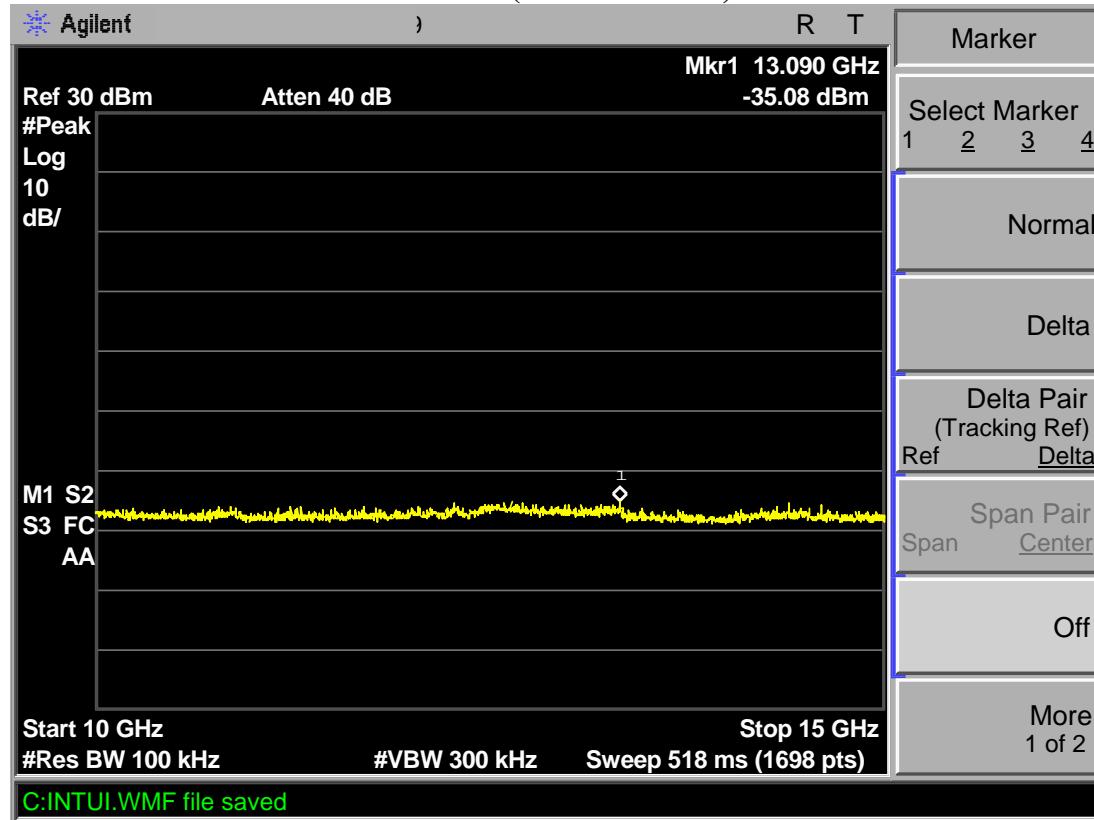
The spectrum analyzer plots are attached as below.

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

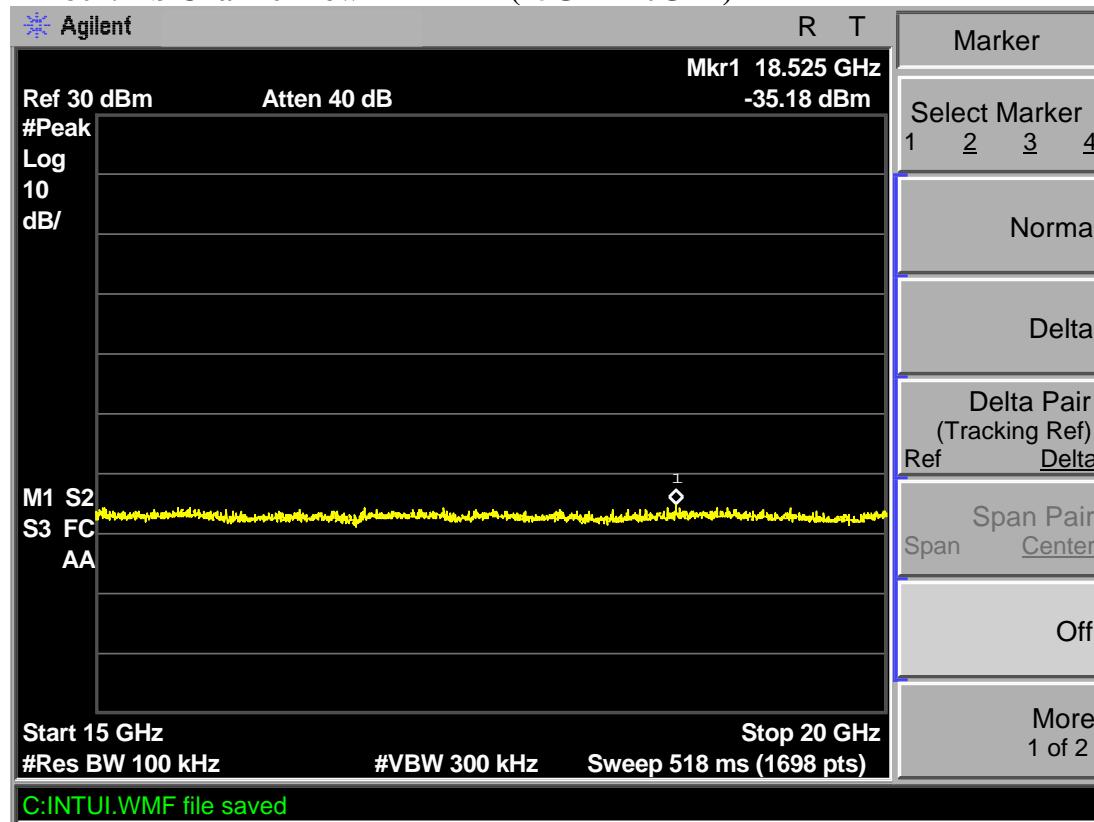
TX 802.11b Channel Low 2412MHz (5GHz-10GHz)



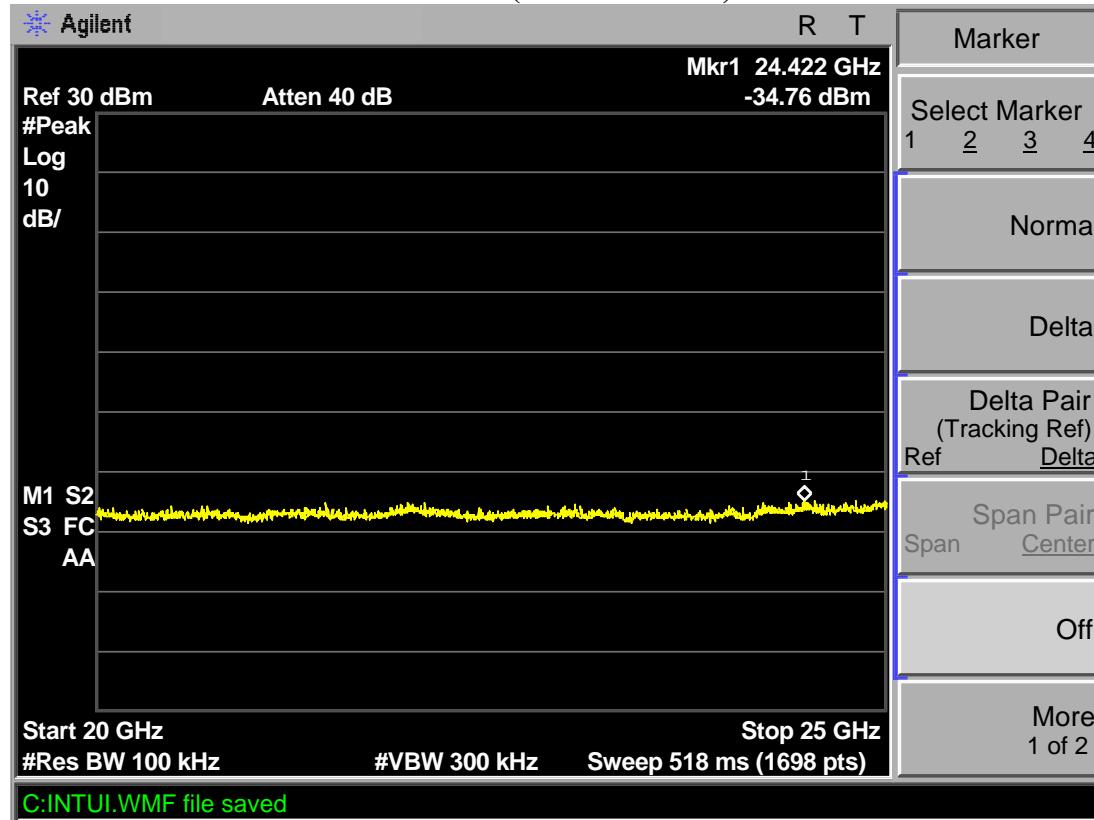
TX 802.11b Channel Low 2412MHz (10GHz-15GHz)



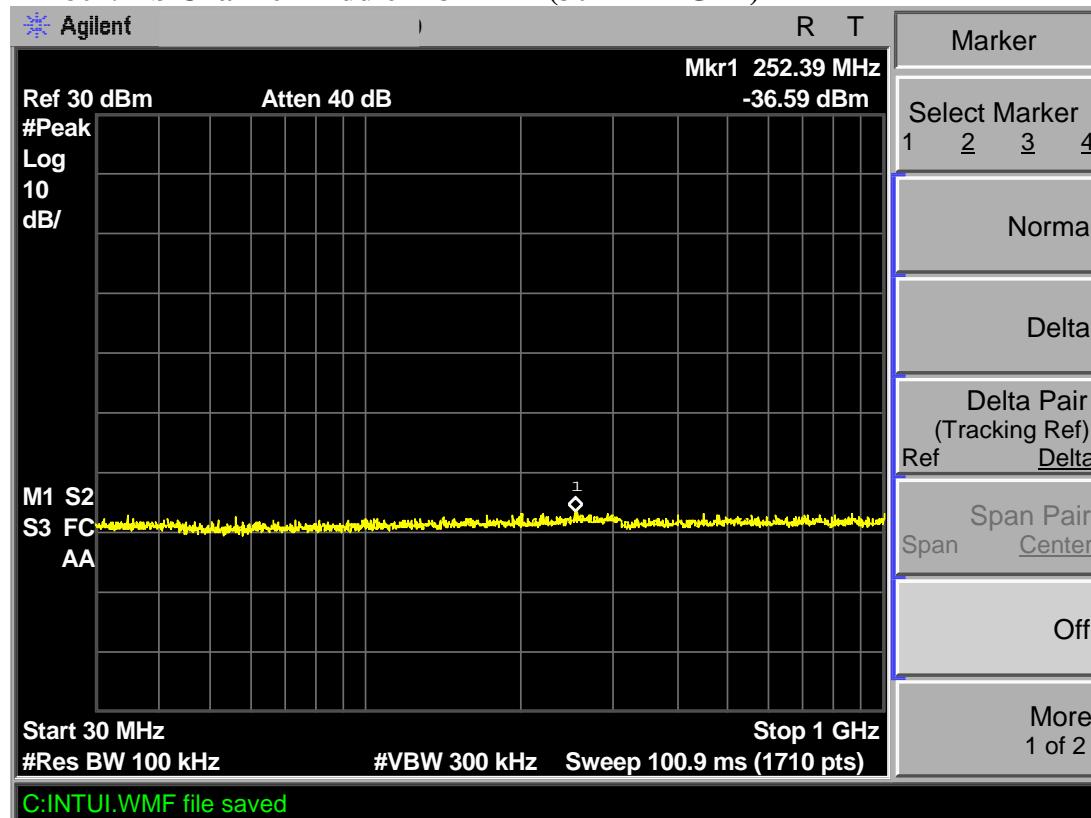
TX 802.11b Channel Low 2412MHz (15GHz-20GHz)



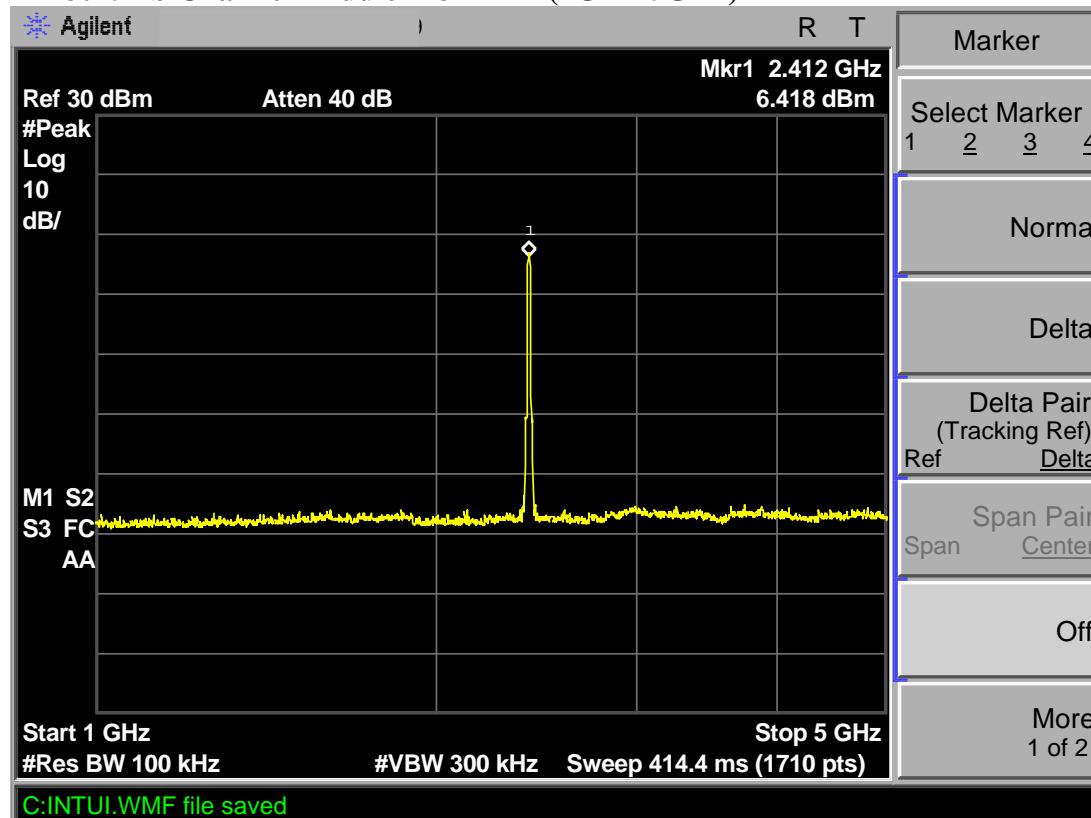
TX 802.11b Channel Low 2412MHz (20GHz-25GHz)



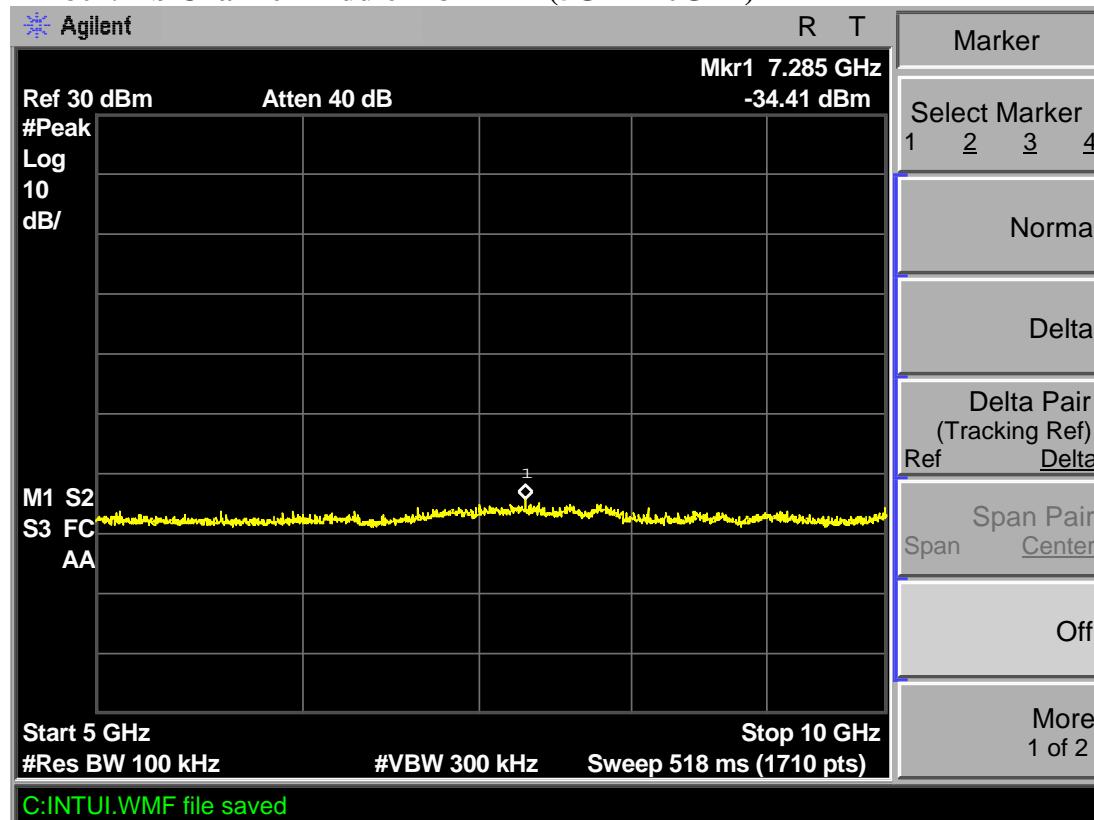
TX 802.11b Channel Middle 2437MHz (30MHz-1GHz)



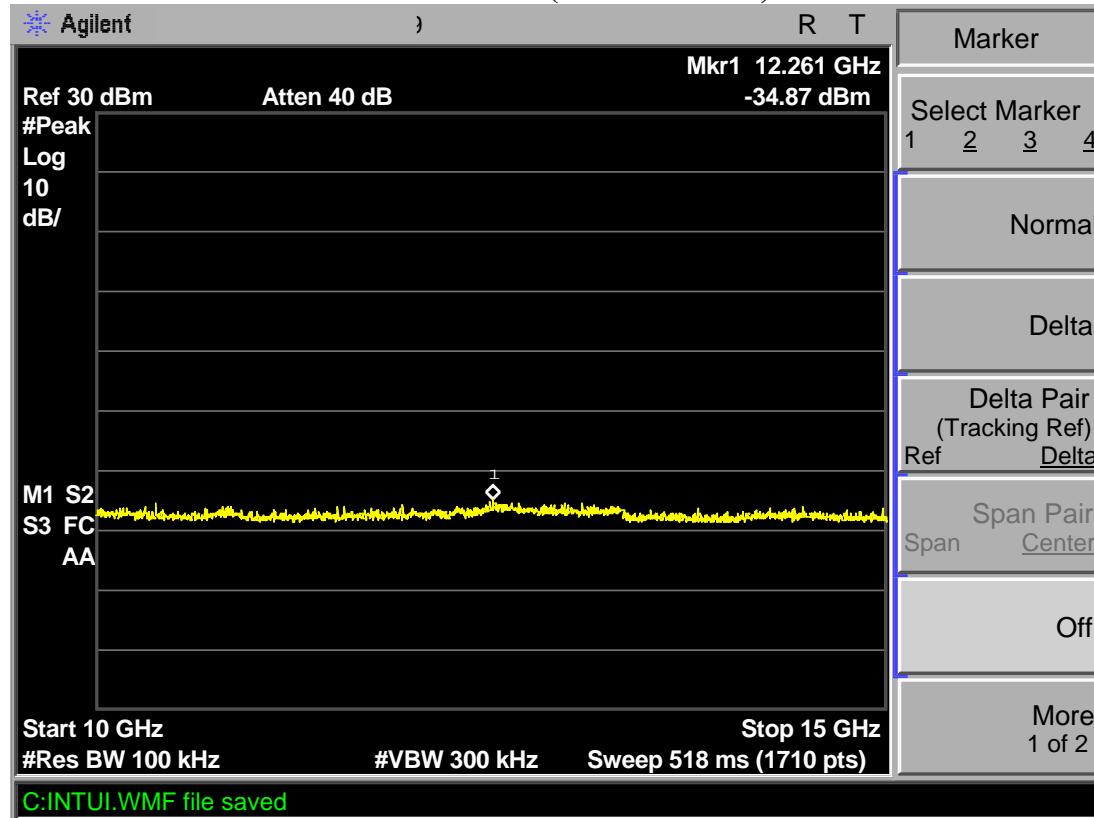
TX 802.11b Channel Middle 2437MHz (1GHz-5GHz)



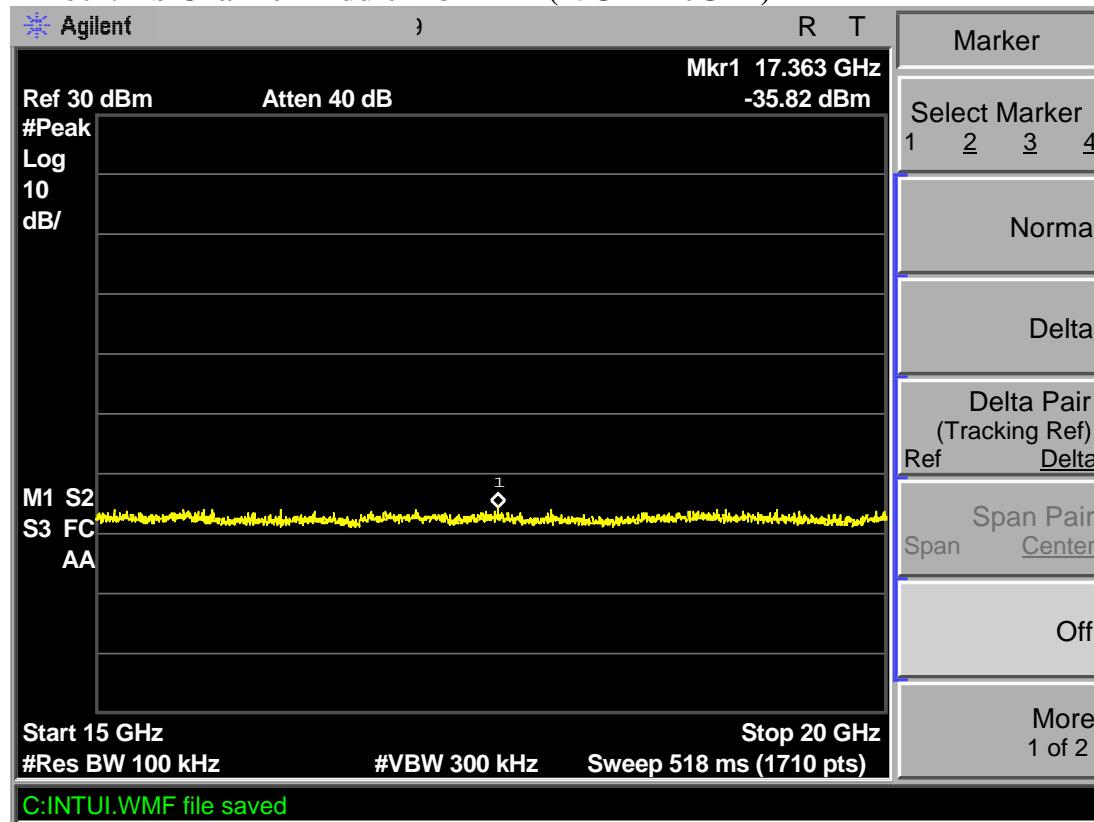
TX 802.11b Channel Middle 2437MHz (5GHz-10GHz)



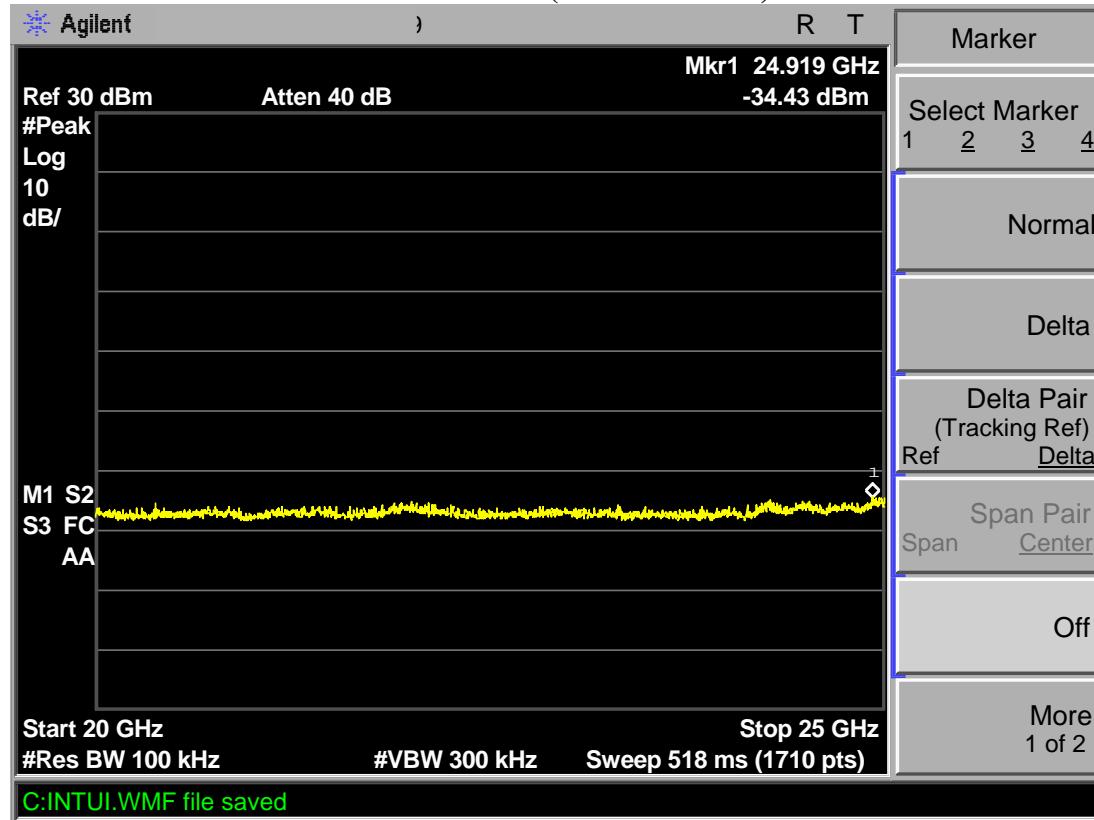
TX 802.11b Channel Middle 2437MHz (10GHz-15GHz)



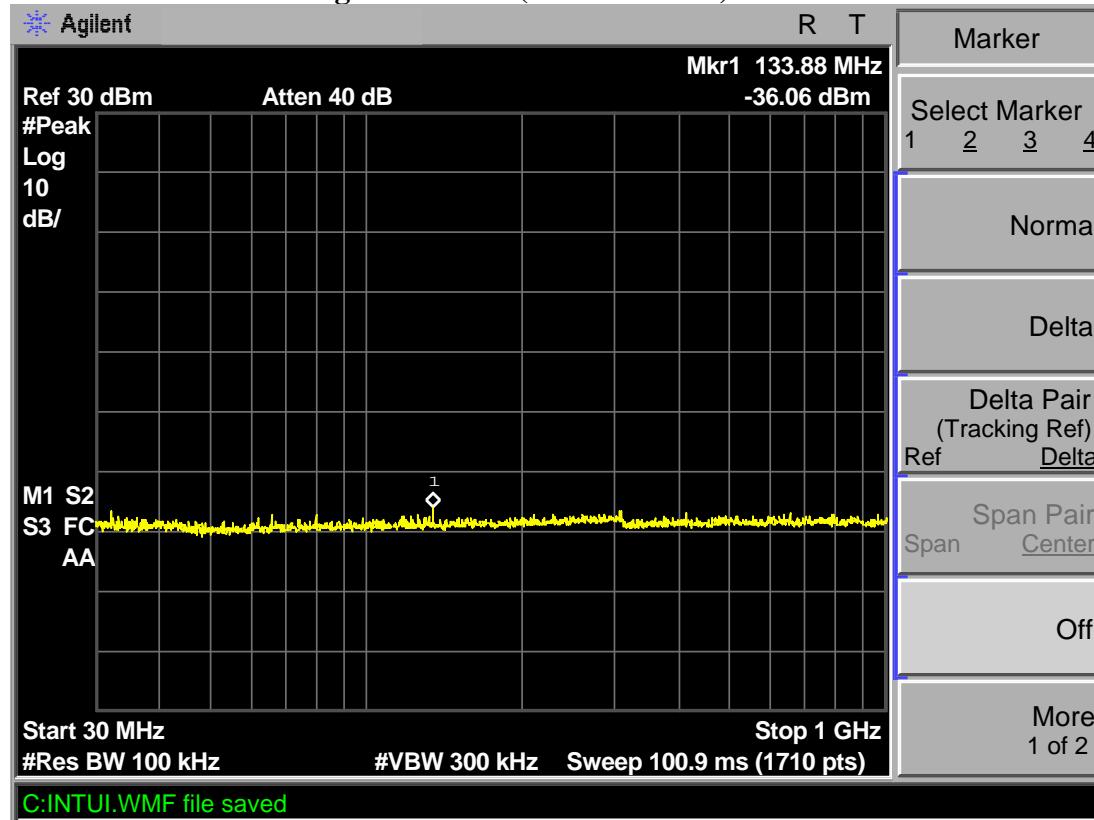
TX 802.11b Channel Middle 2437MHz (15GHz-20GHz)



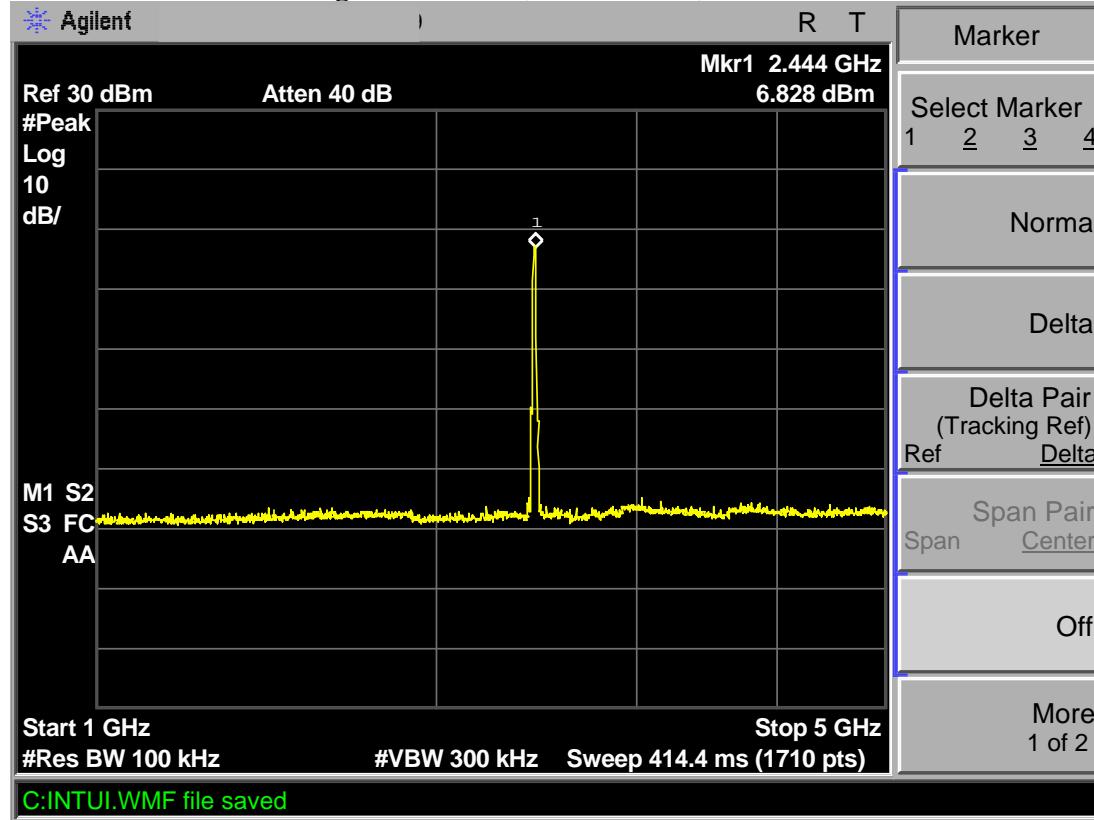
TX 802.11b Channel Middle 2437MHz (20GHz-25GHz)

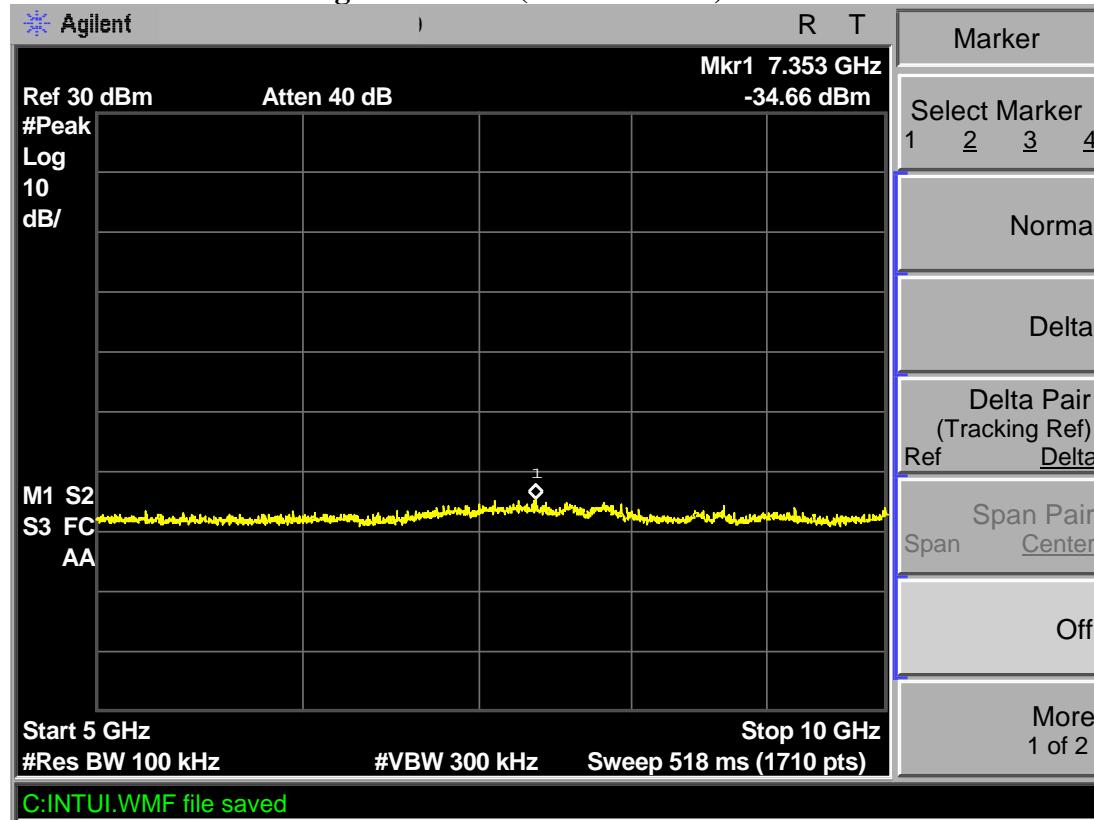
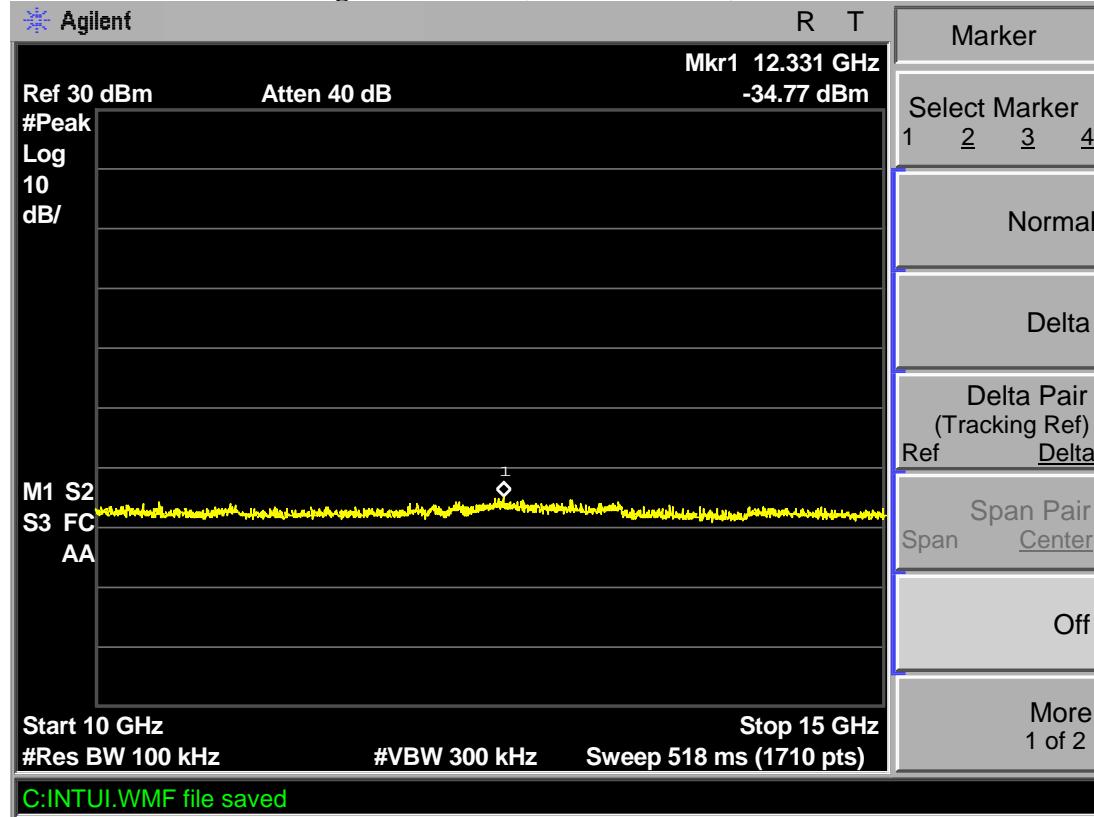


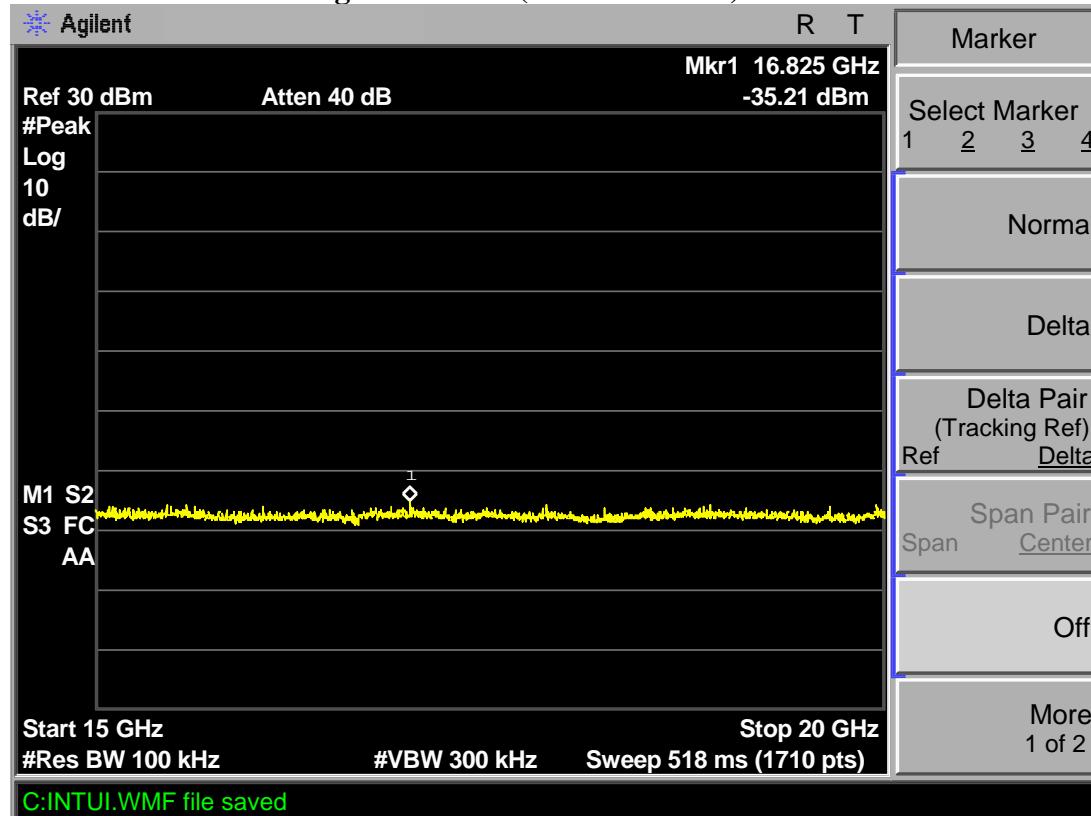
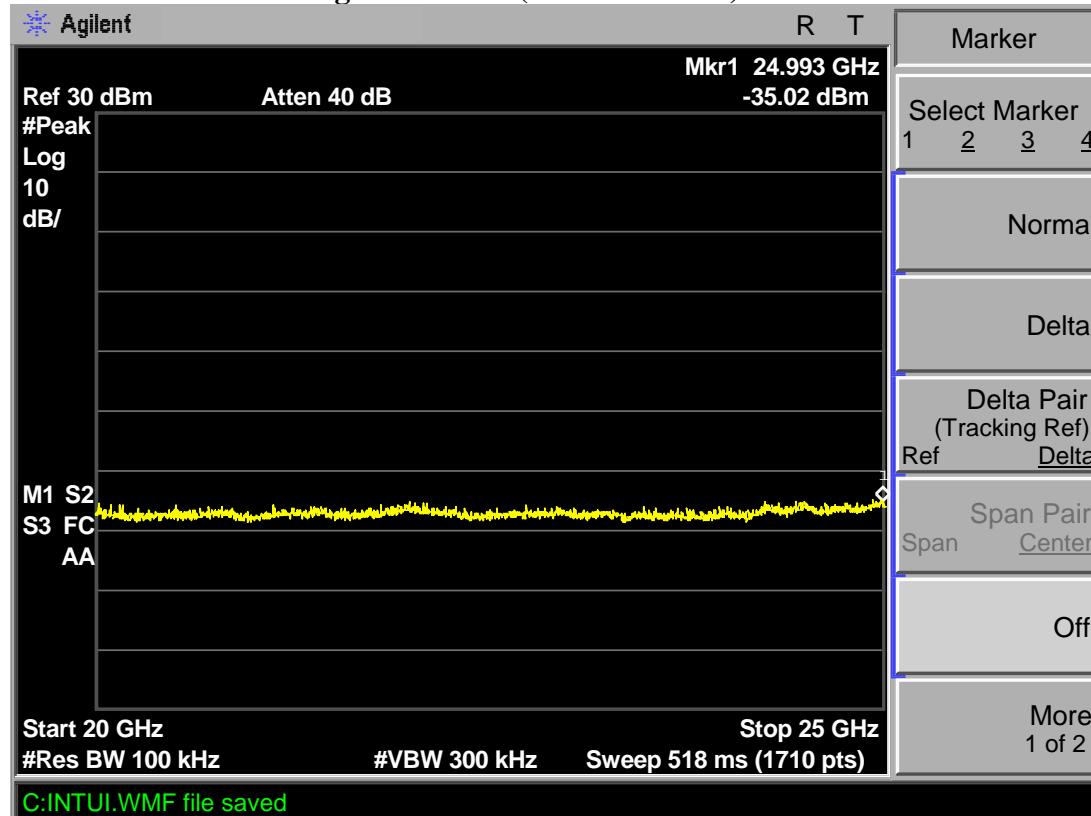
TX 802.11b Channel High 2462MHz (30MHz-1GHz)

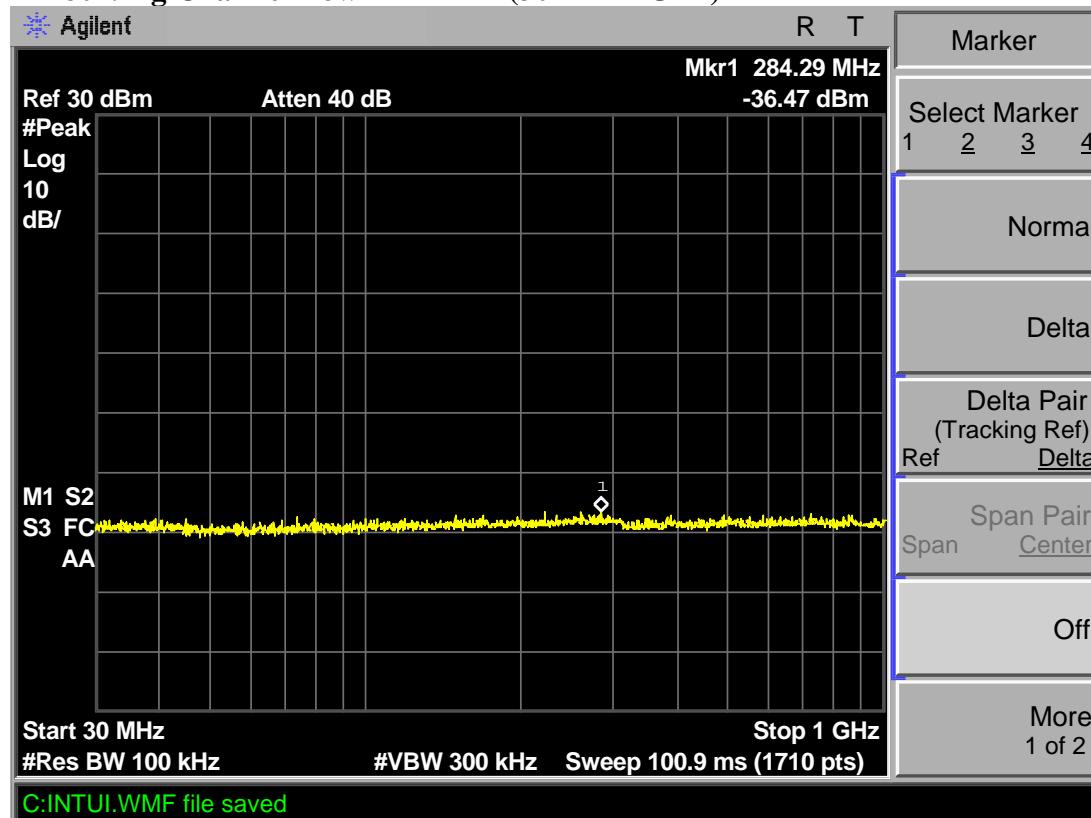
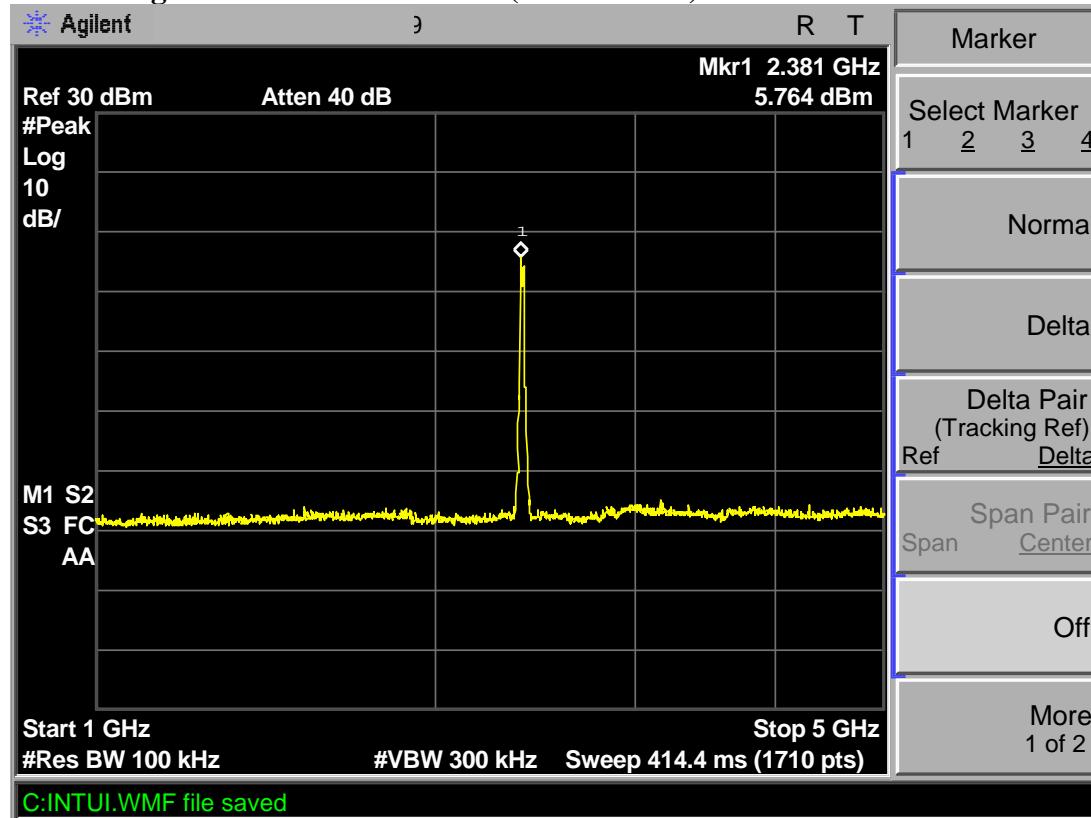


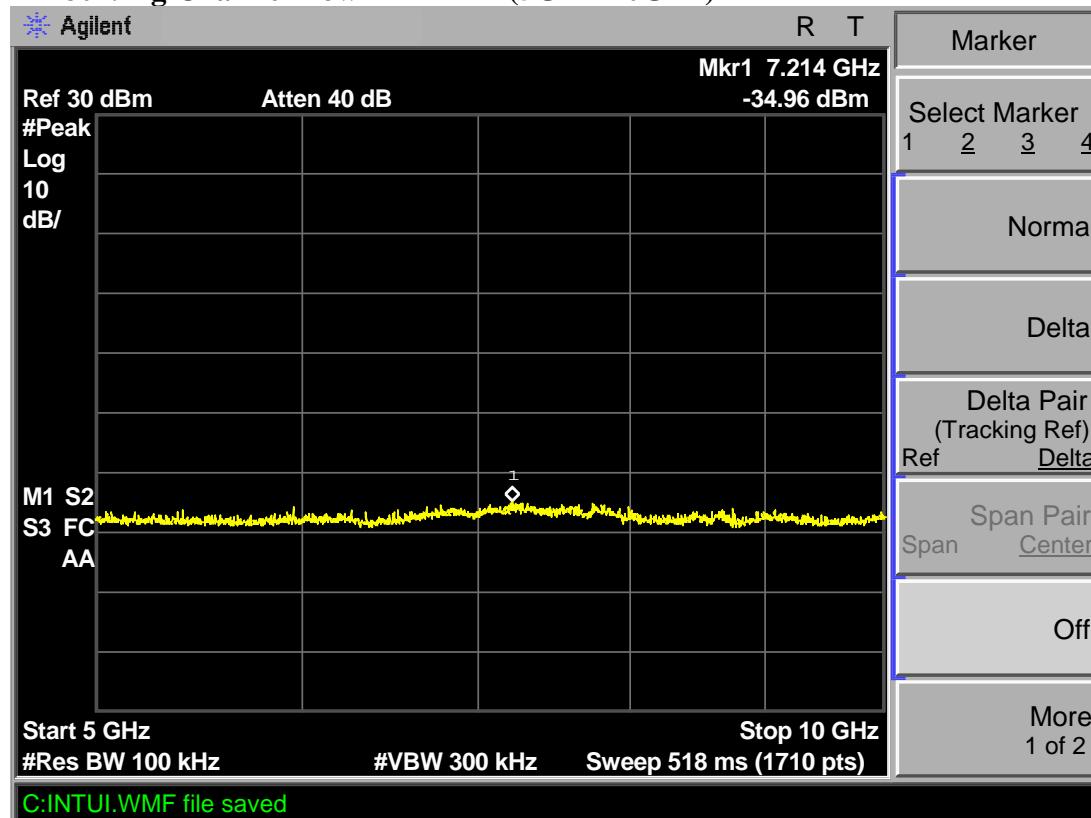
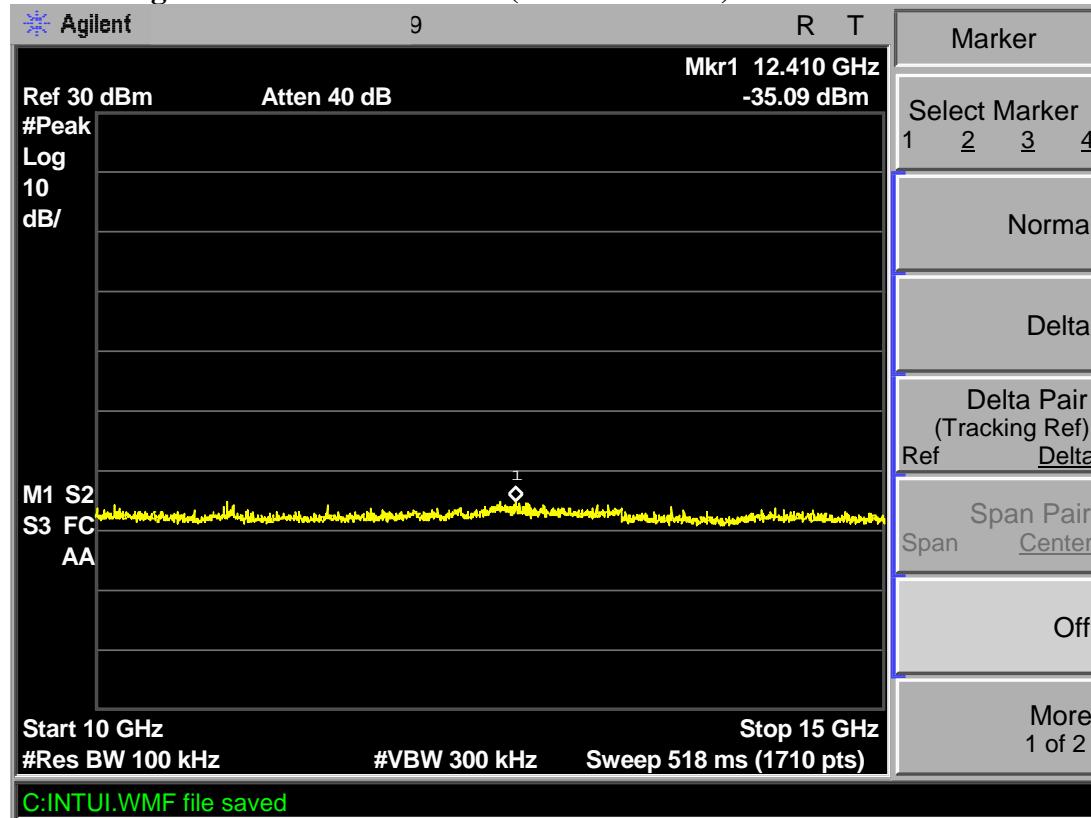
TX 802.11b Channel High 2462MHz (1GHz-5GHz)



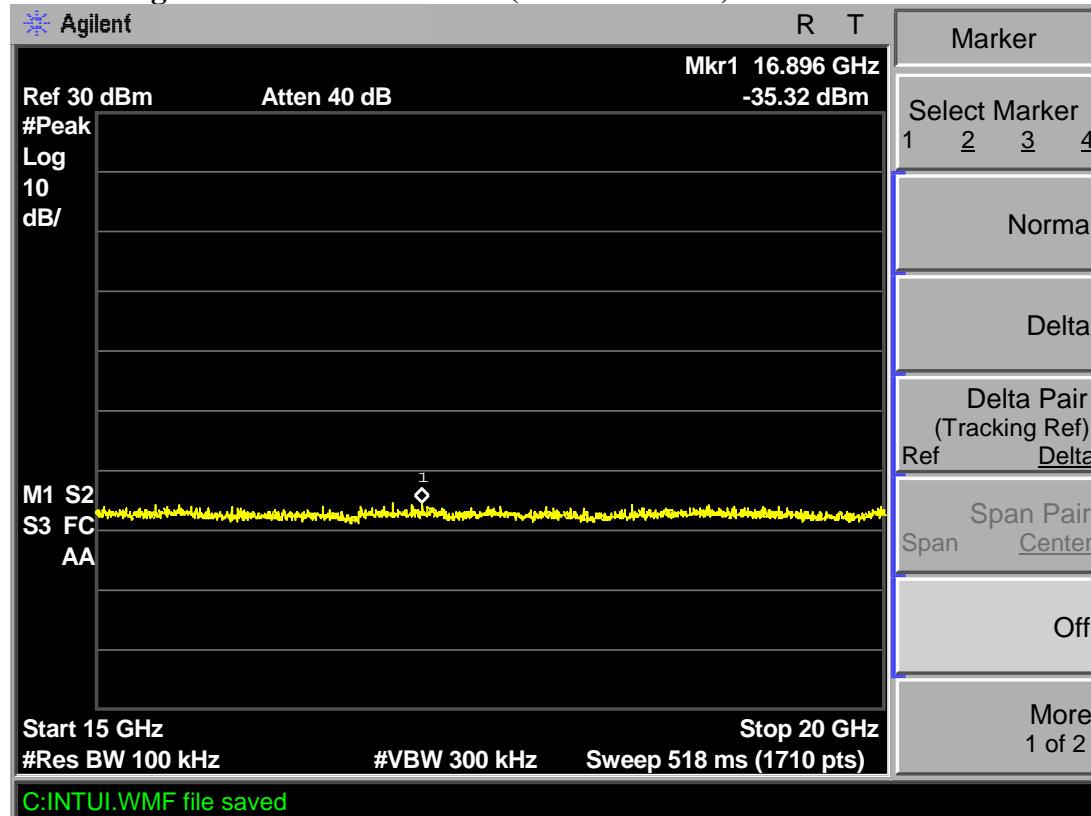
TX 802.11b Channel High 2462MHz (5GHz-10GHz)**TX 802.11b Channel High 2462MHz (10GHz-15GHz)**

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

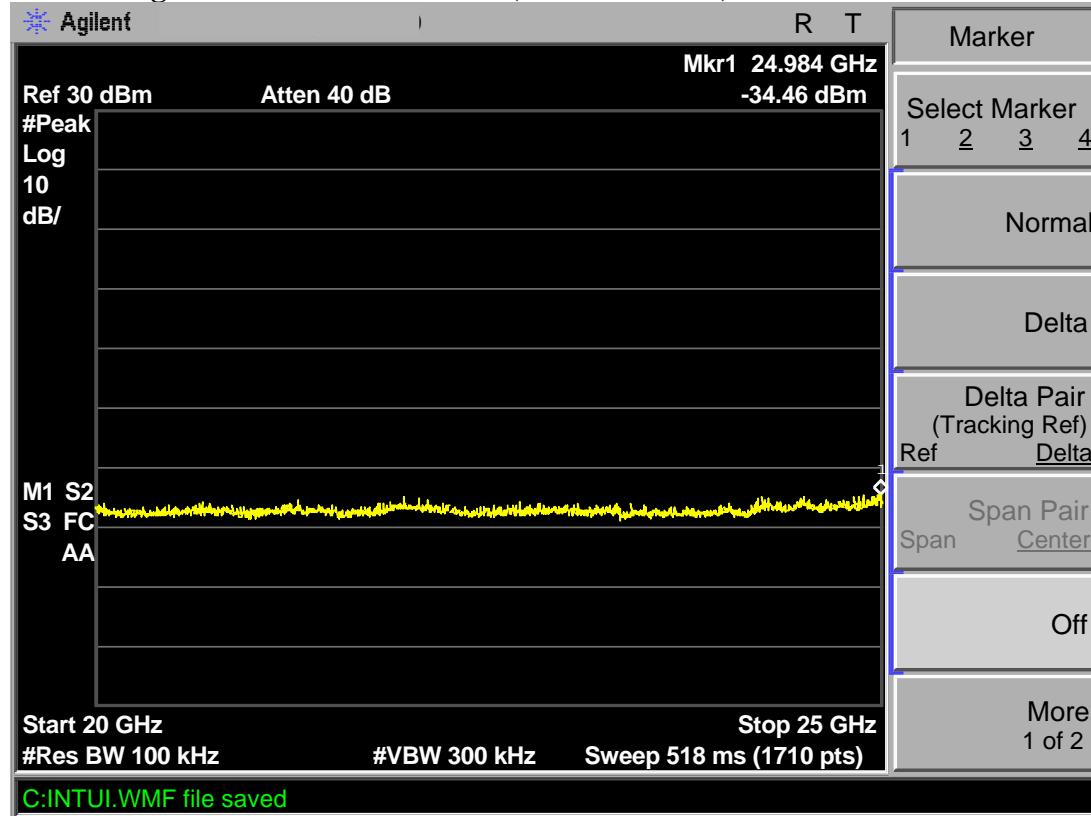
TX 802.11g Channel Low 2412MHz (30MHz-1GHz)**TX 802.11g Channel Low 2412MHz (1GHz-5GHz)**

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

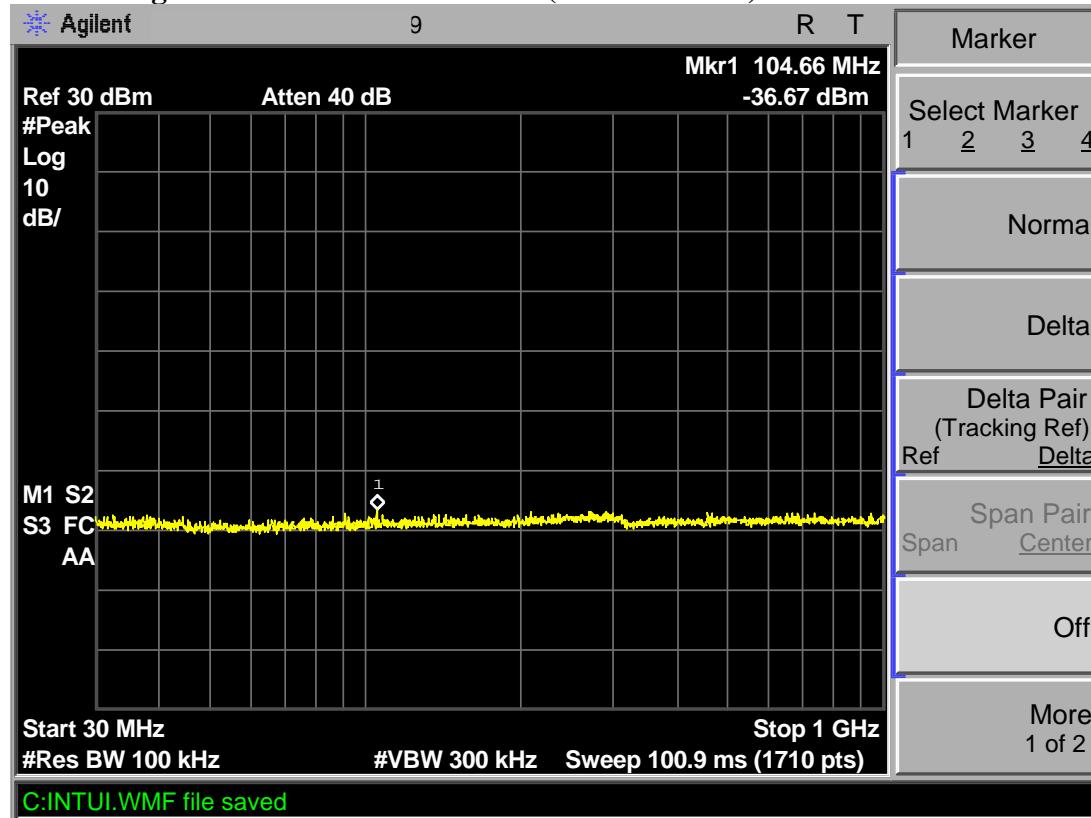
TX 802.11g Channel Low 2412MHz (15GHz-20GHz)



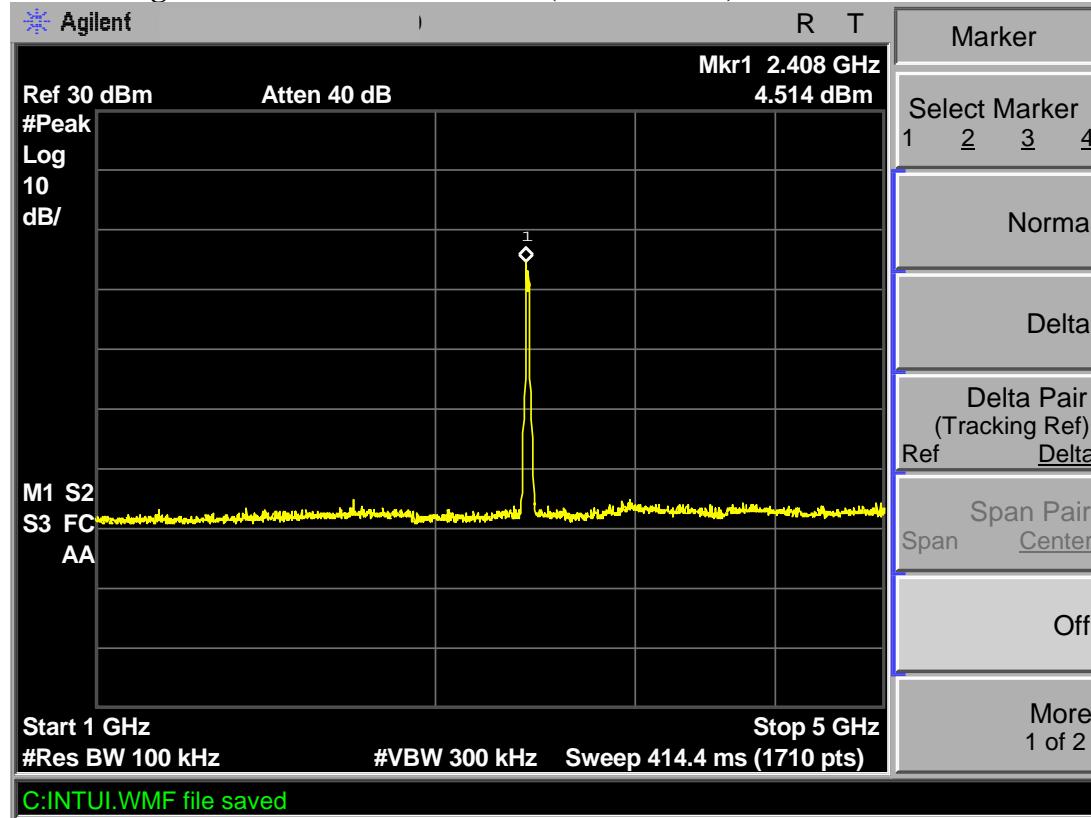
TX 802.11g Channel Low 2412MHz (20GHz-25GHz)



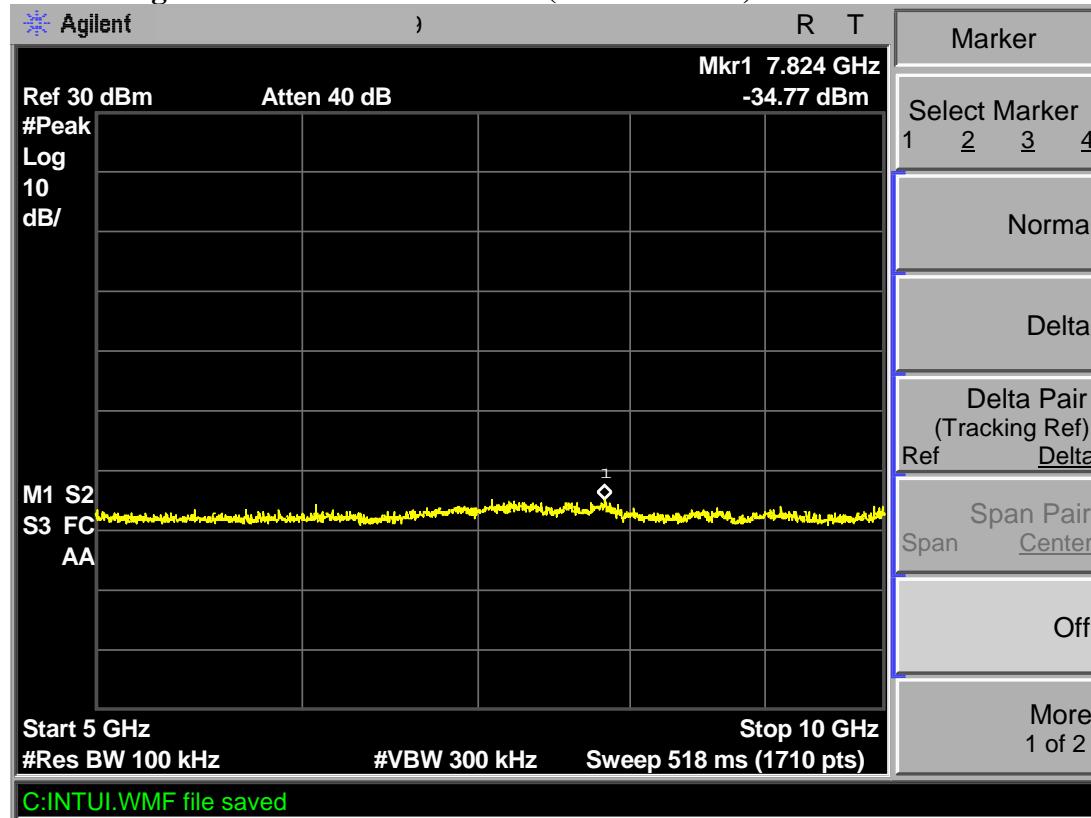
TX 802.11g Channel Middle 2437MHz (30MHz-1GHz)



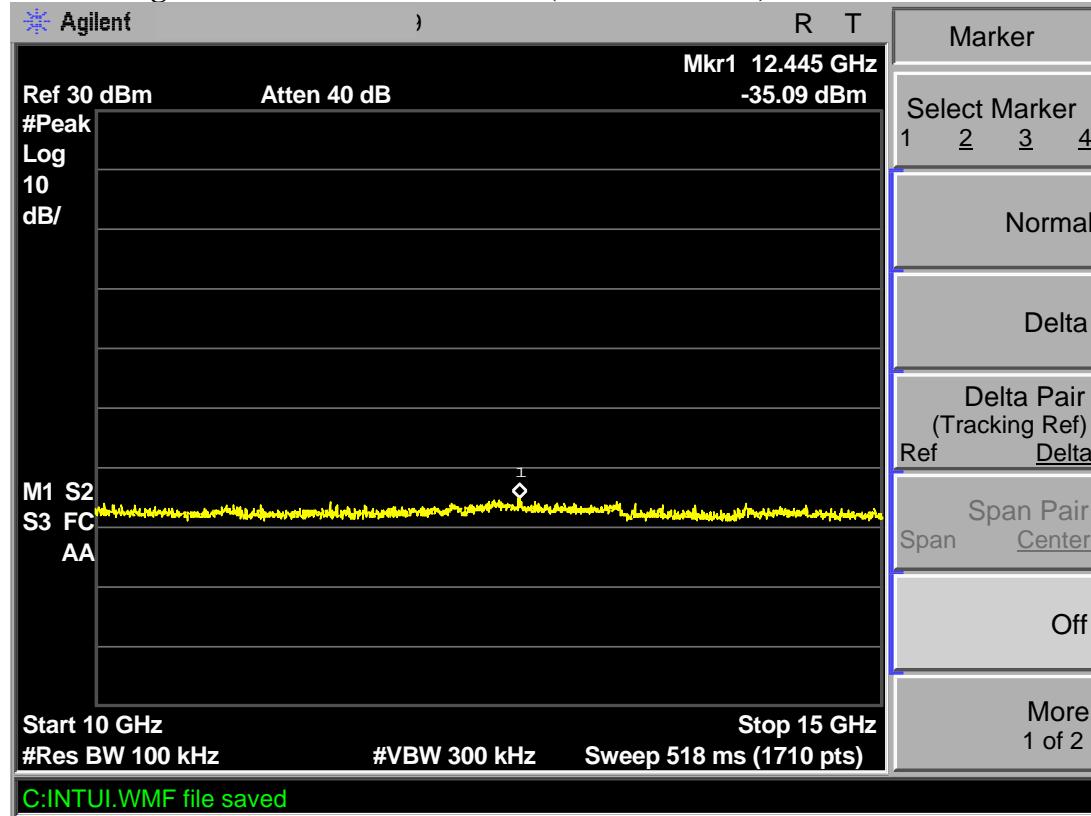
TX 802.11g Channel Middle 2437MHz (1GHz-5GHz)



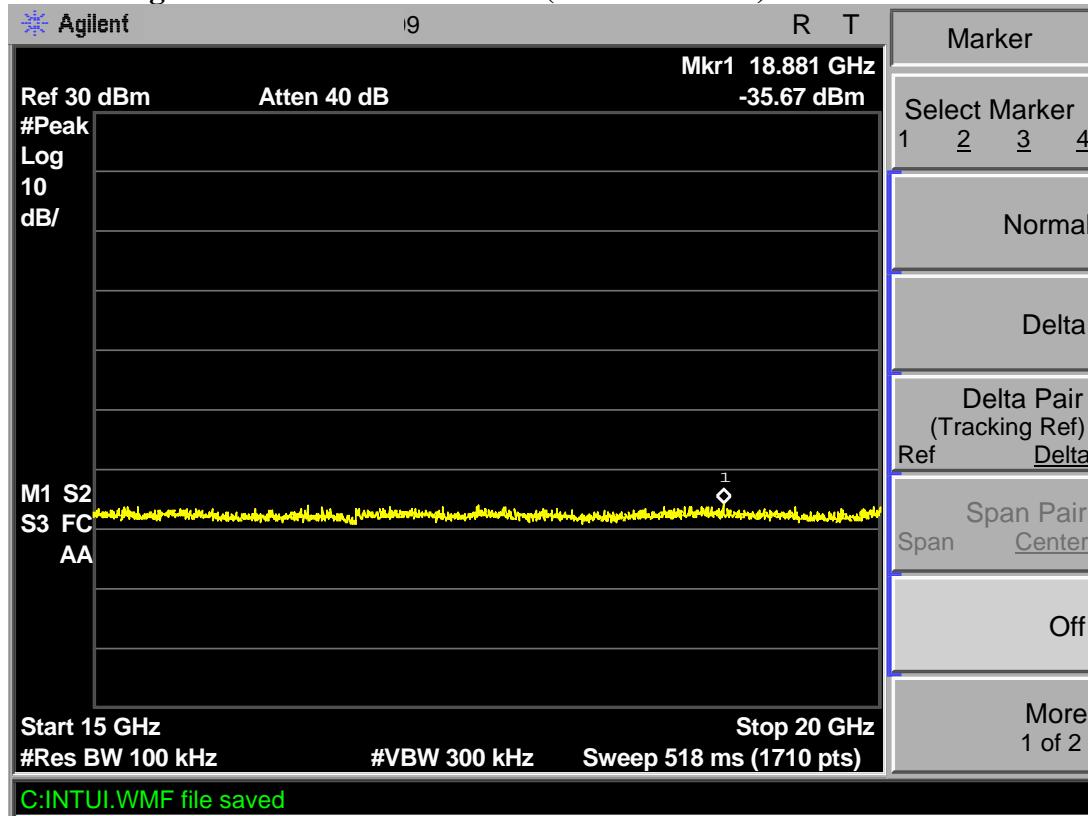
TX 802.11g Channel Middle 2437MHz (5GHz-10GHz)



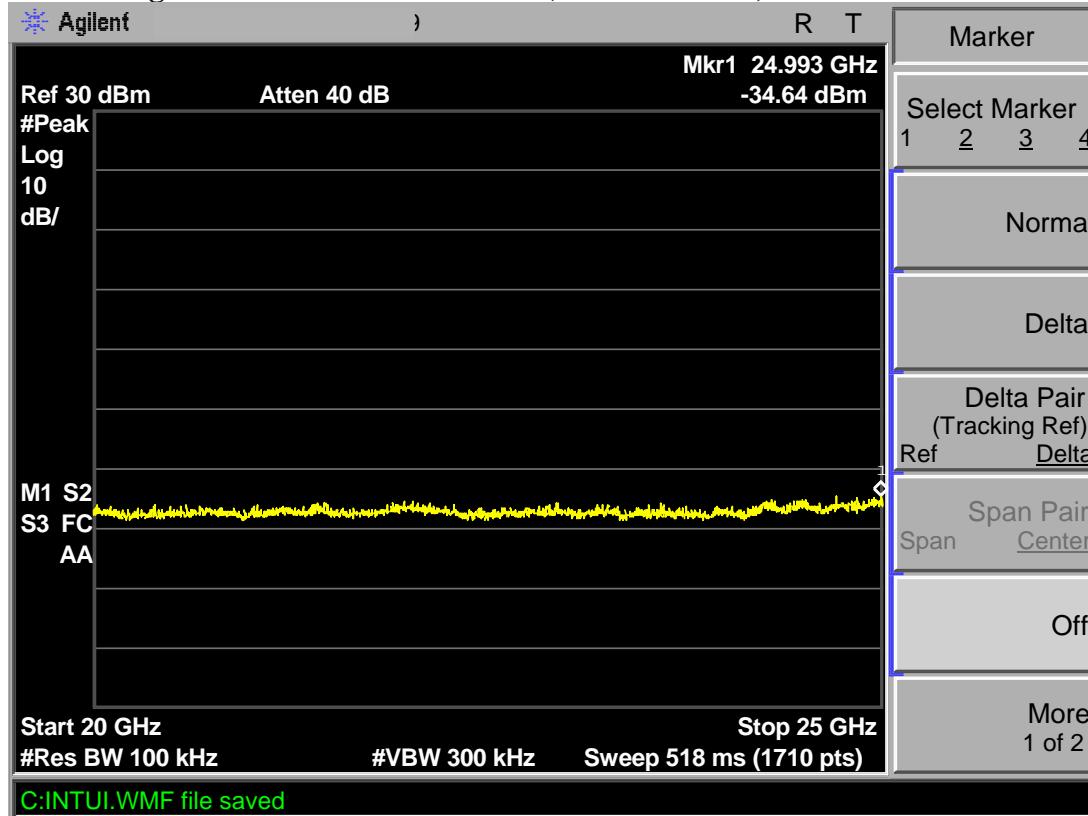
TX 802.11g Channel Middle 2437MHz (10GHz-15GHz)

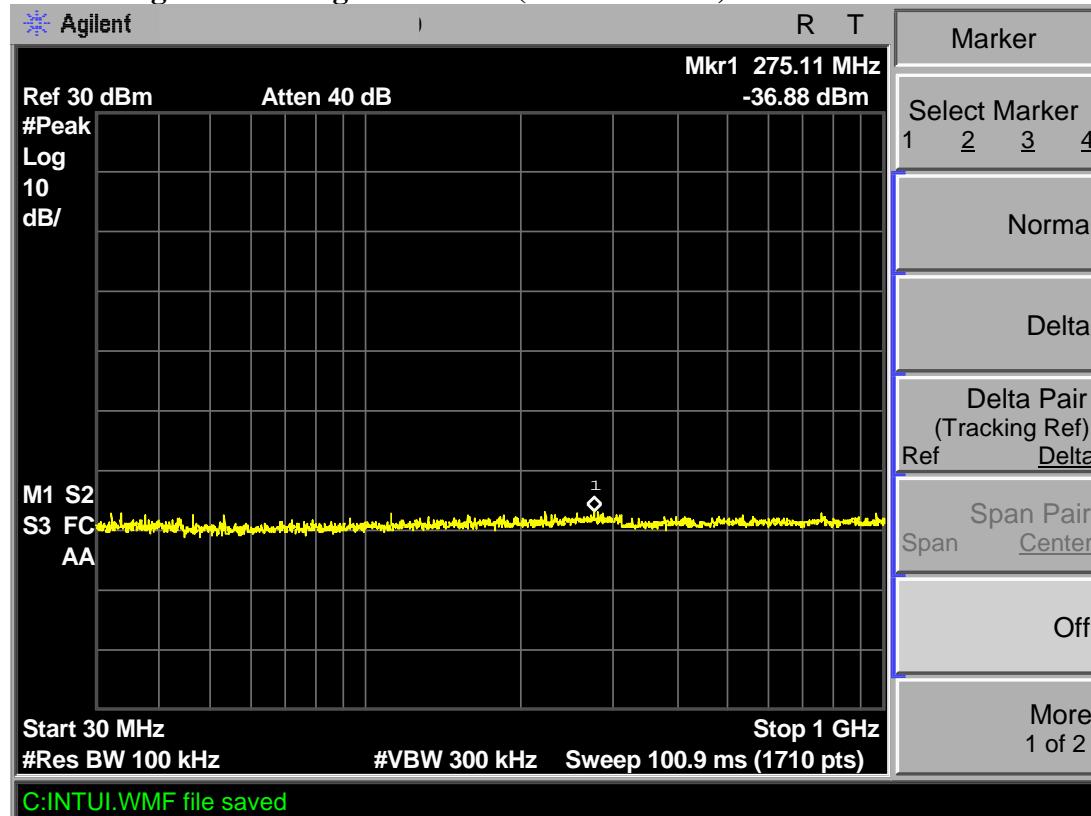
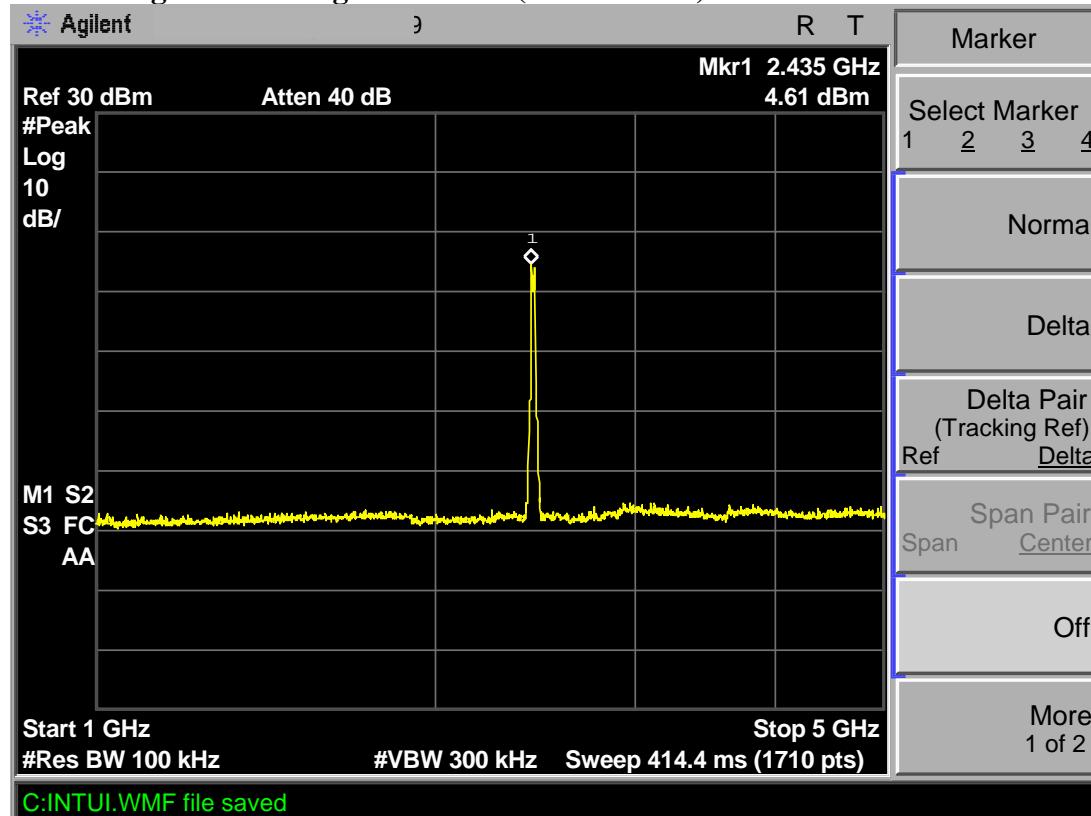


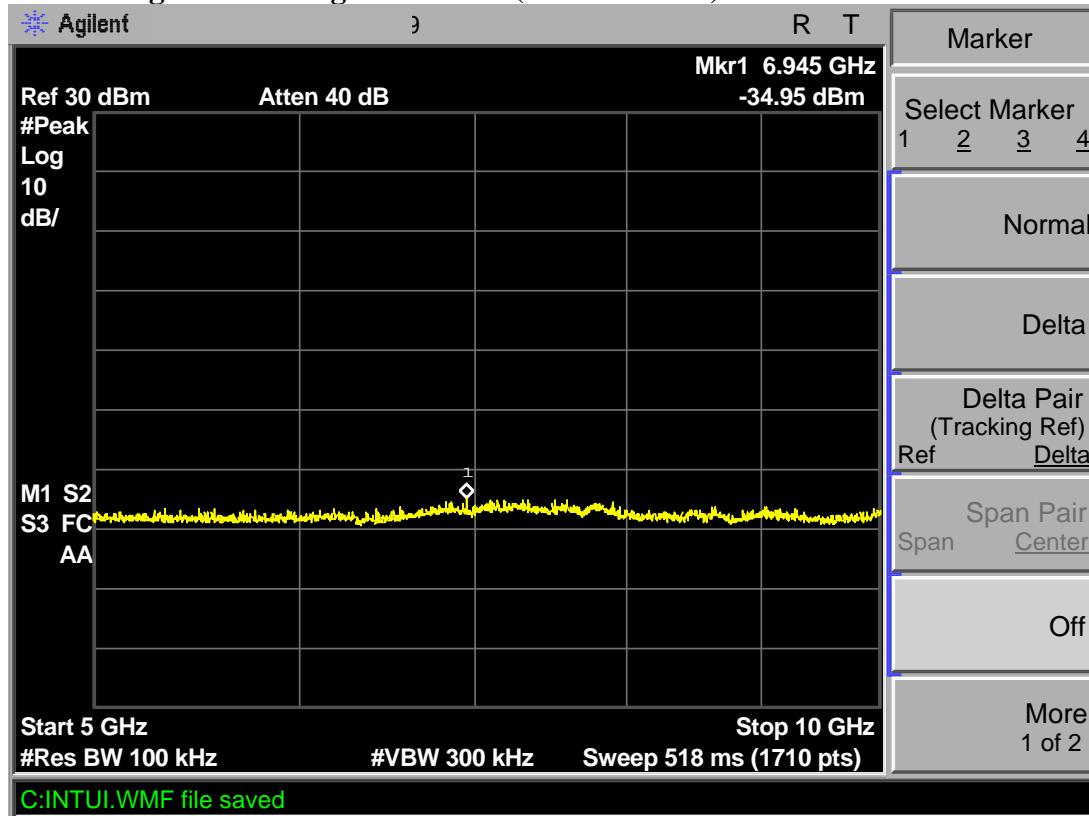
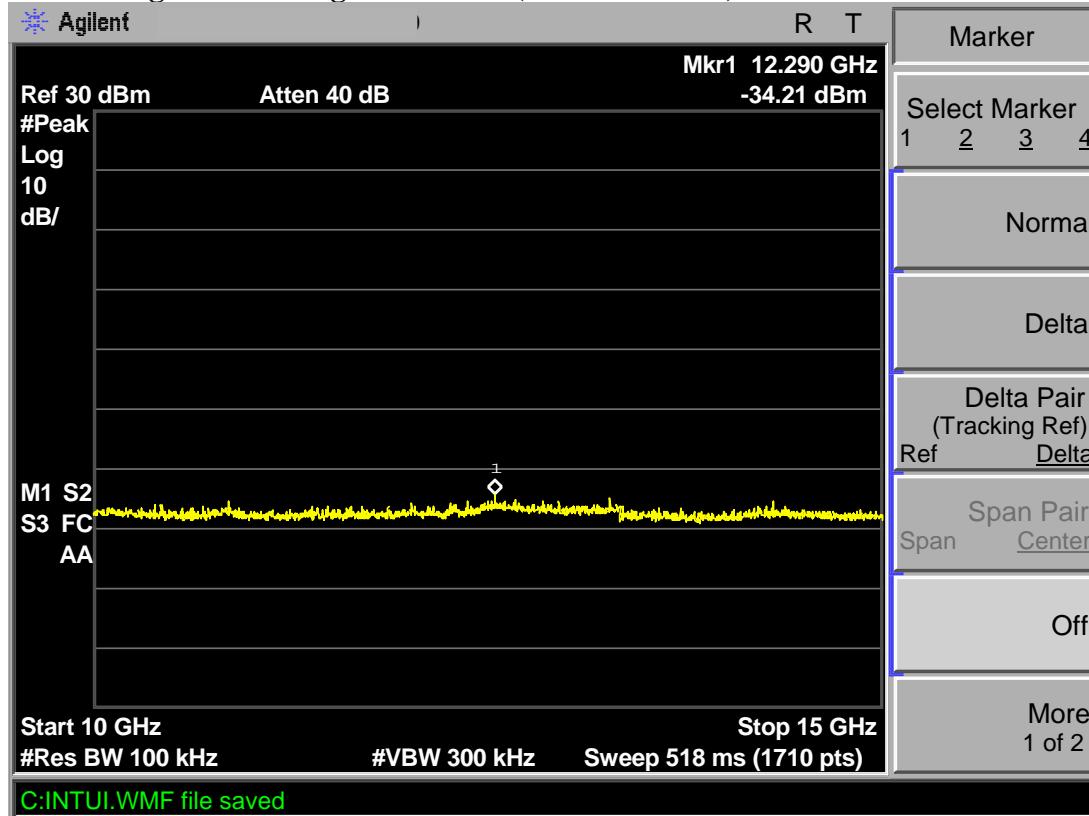
TX 802.11g Channel Middle 2437MHz (15GHz-20GHz)

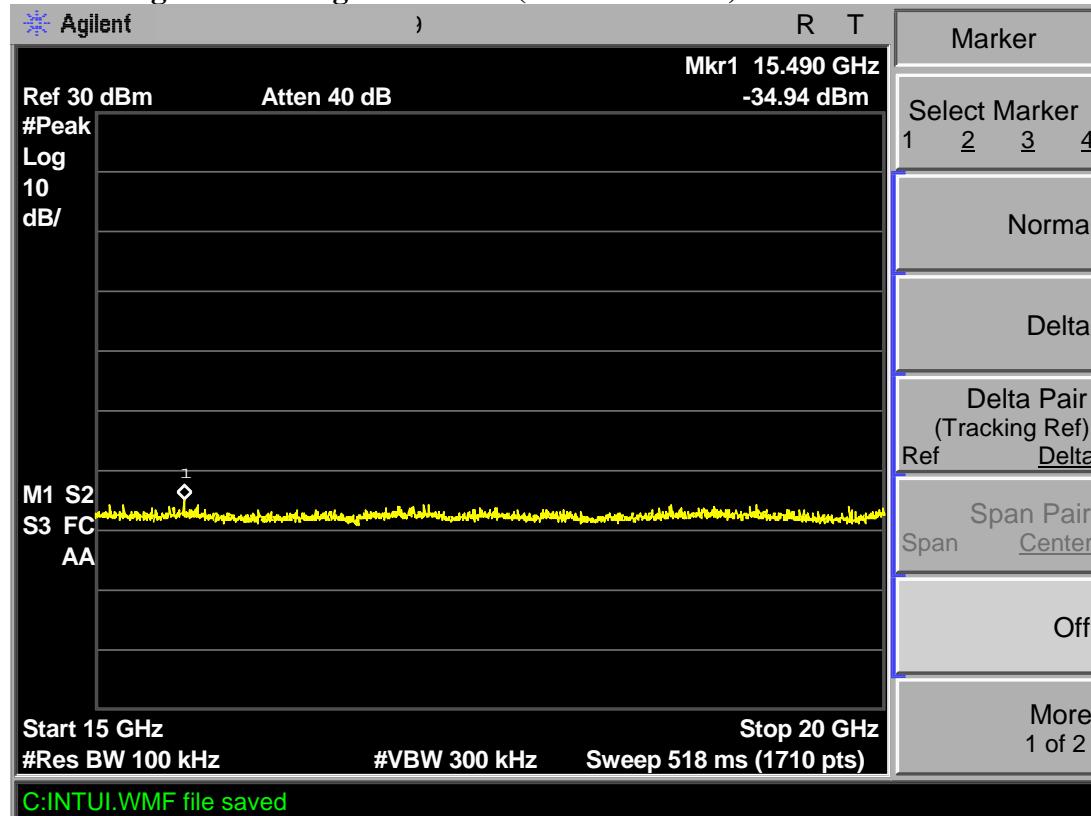
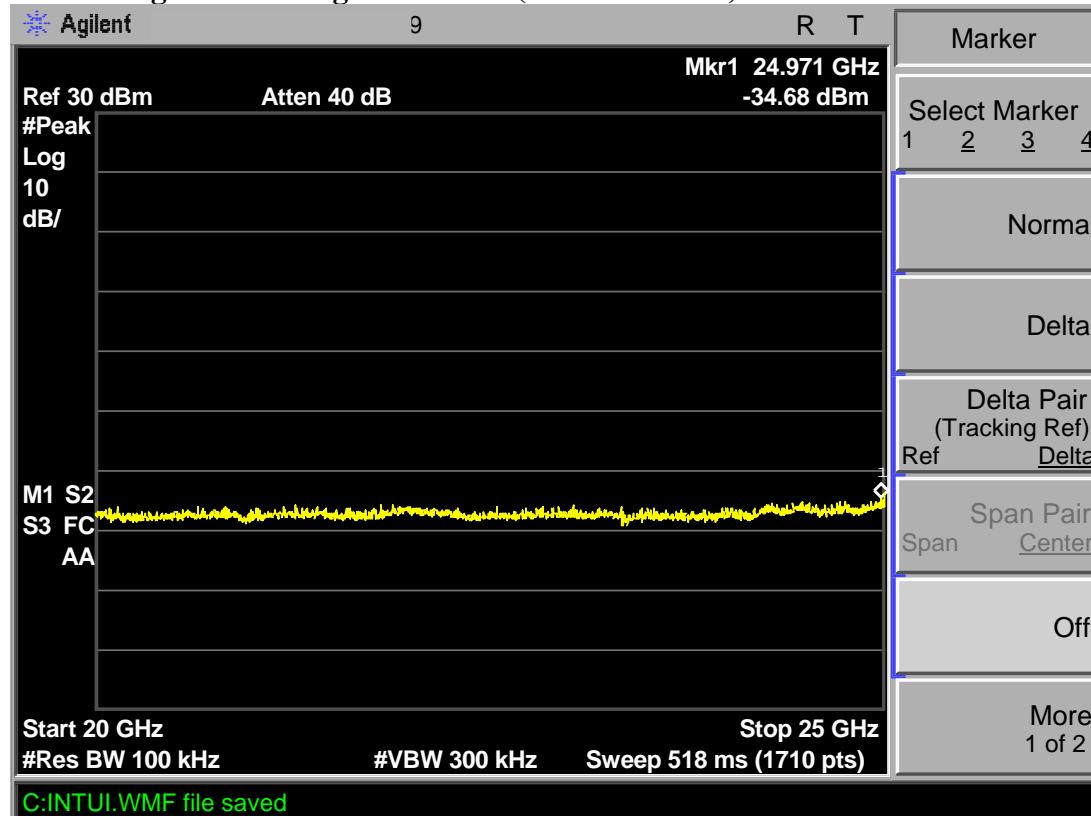


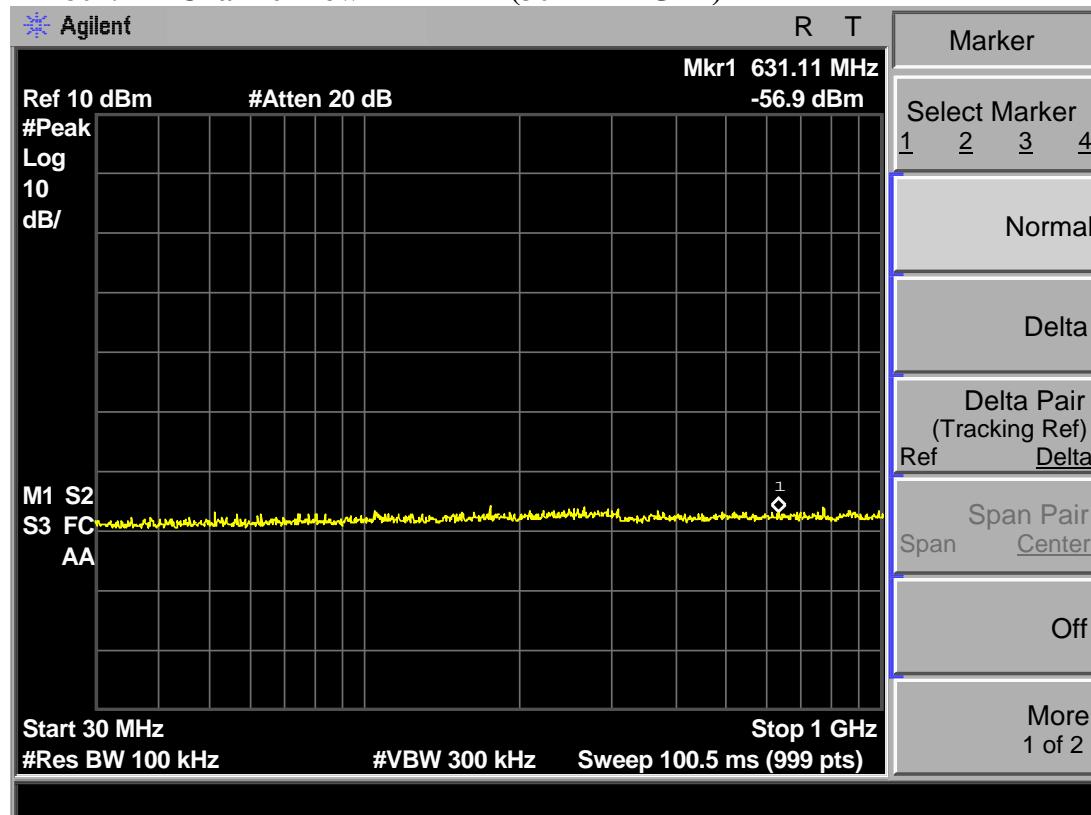
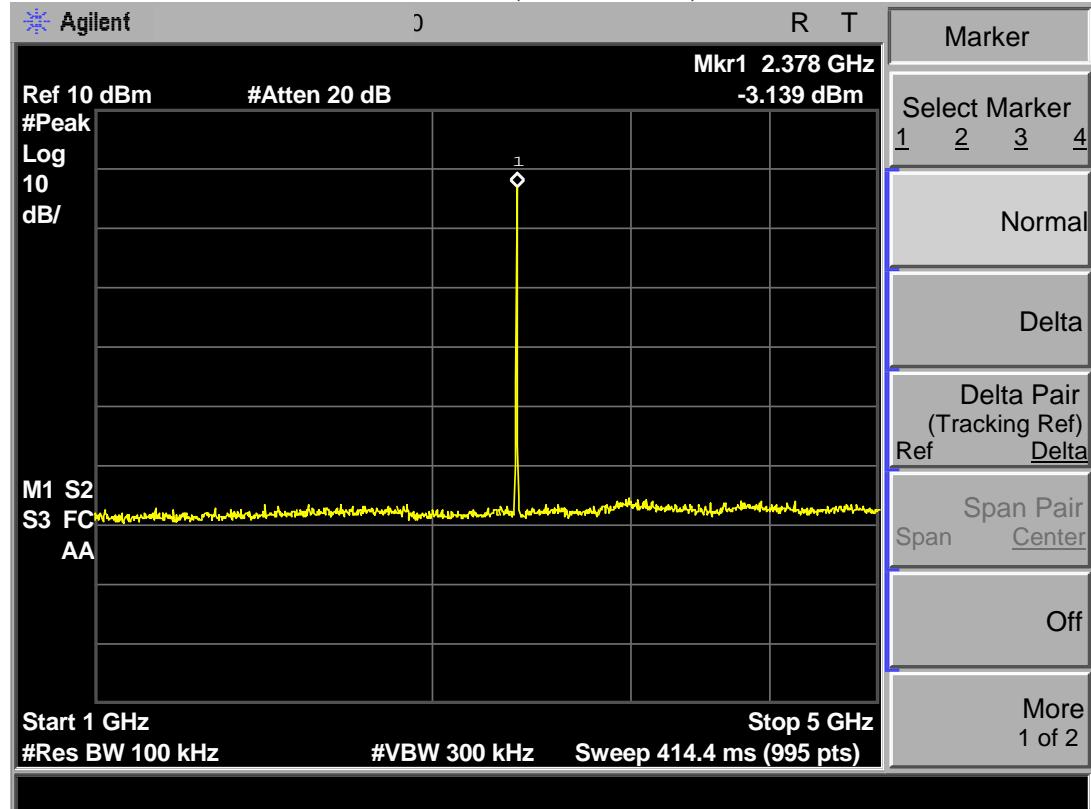
TX 802.11g Channel Middle 2437MHz (20GHz-25GHz)

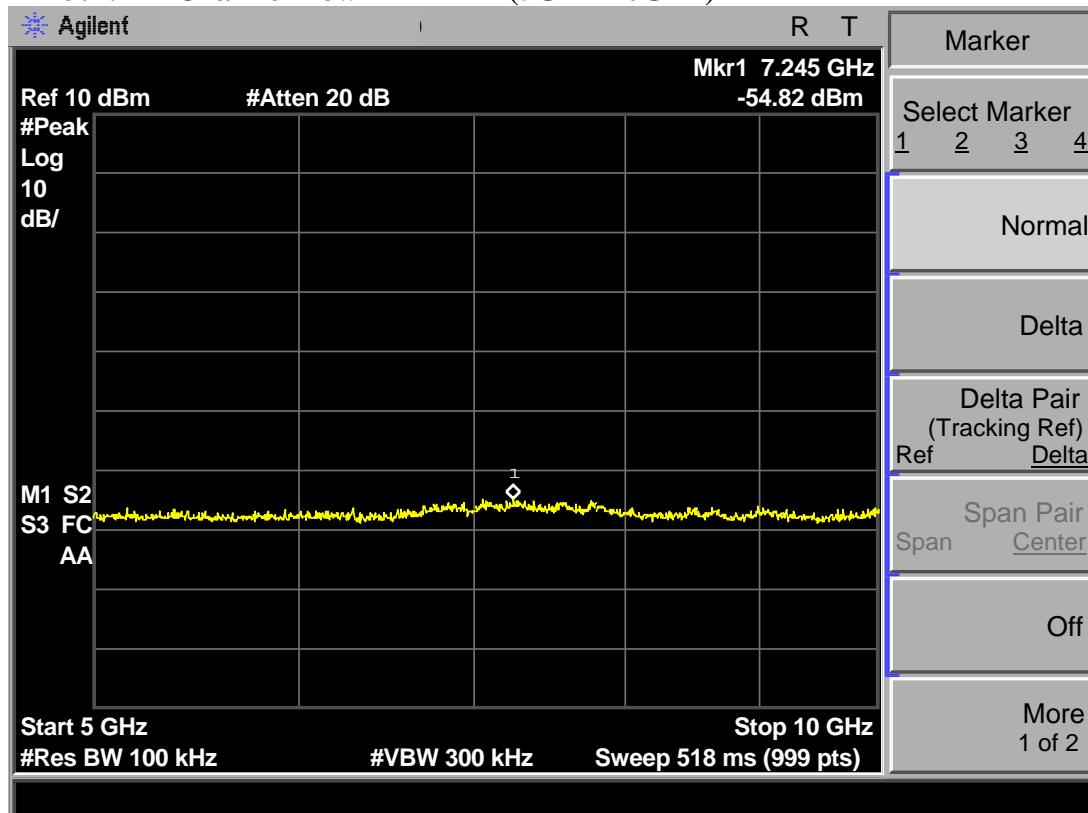
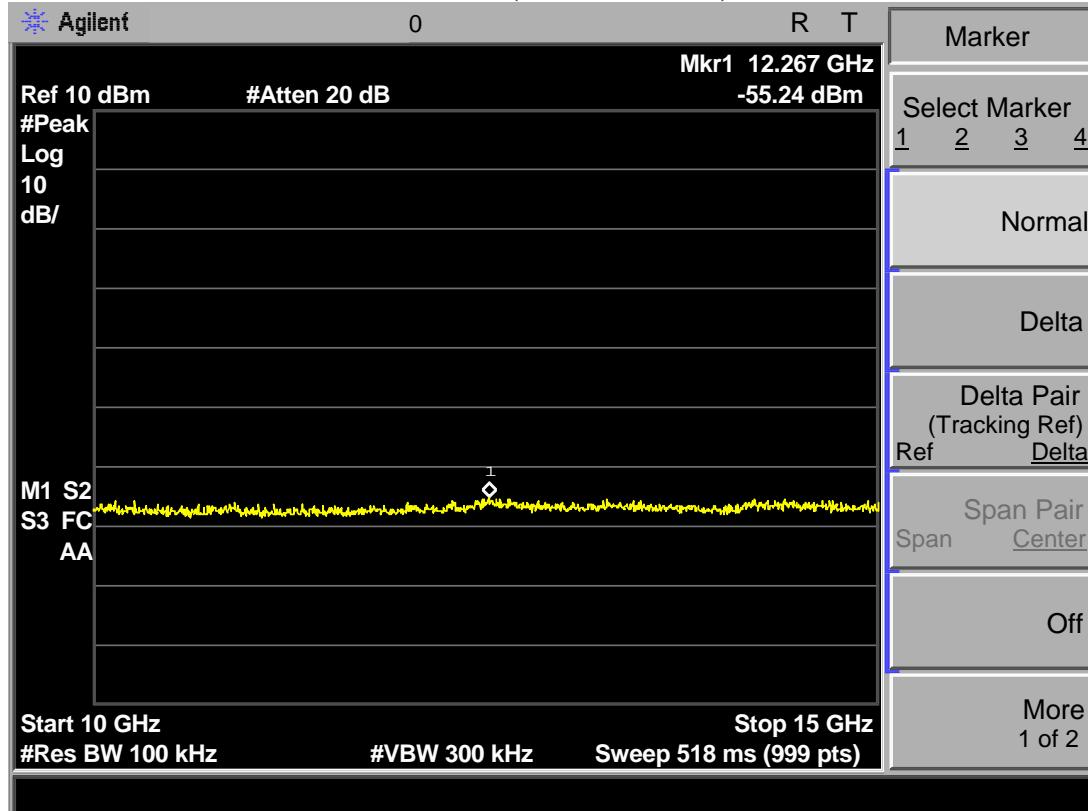


TX 802.11g Channel High 2462MHz (30MHz-1GHz)**TX 802.11g Channel High 2462MHz (1GHz-5GHz)**

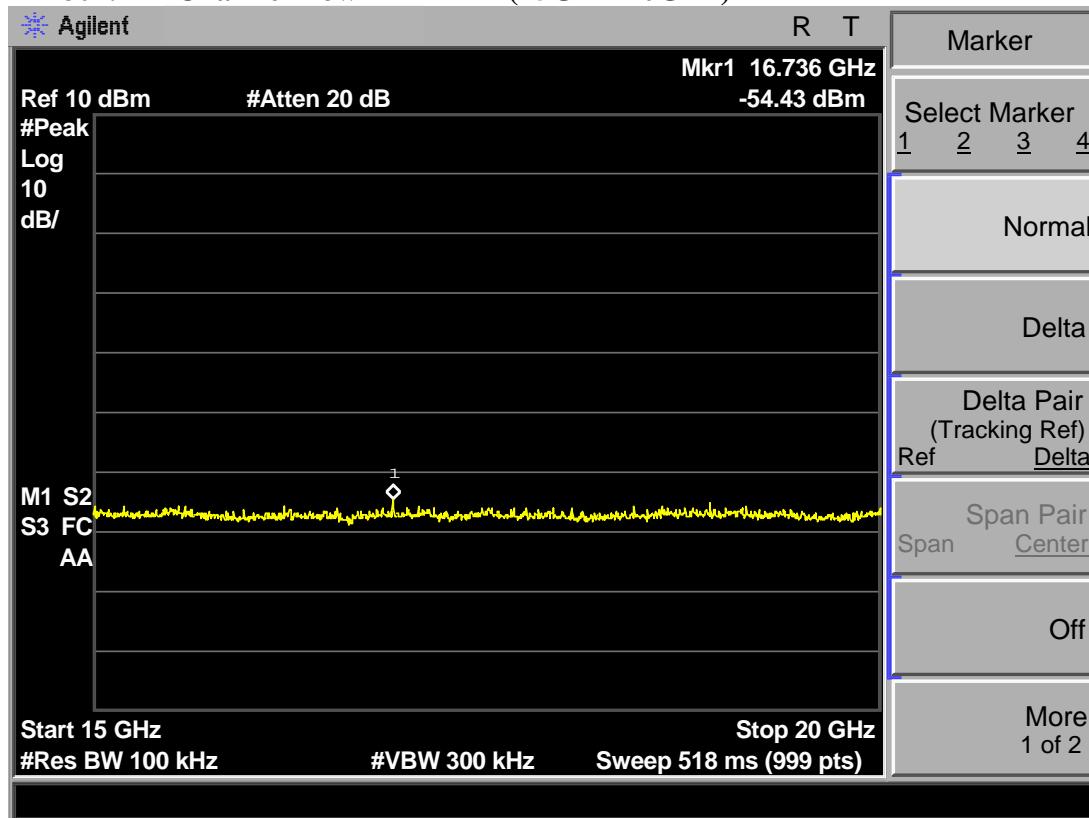
TX 802.11g Channel High 2462MHz (5GHz-10GHz)**TX 802.11g Channel High 2462MHz (10GHz-15GHz)**

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

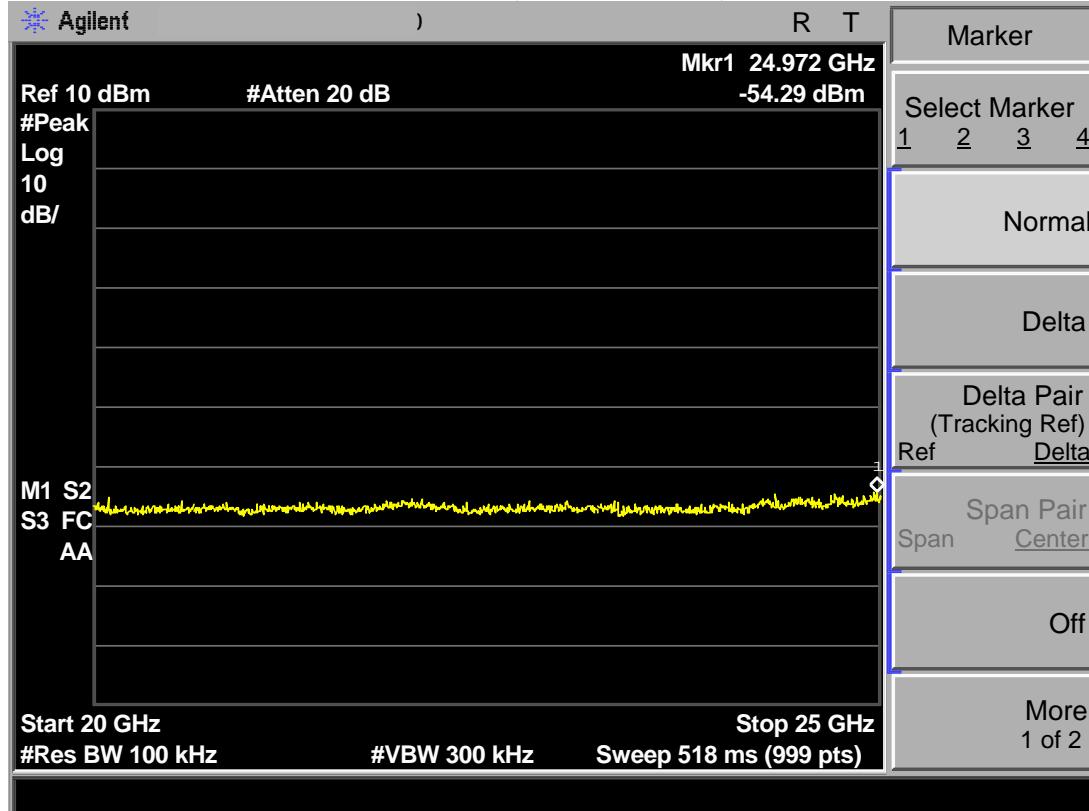
TX 802.11n Channel Low 2412MHz (30MHz-1GHz)**TX 802.11n Channel Low 2412MHz (1GHz-5GHz)**

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

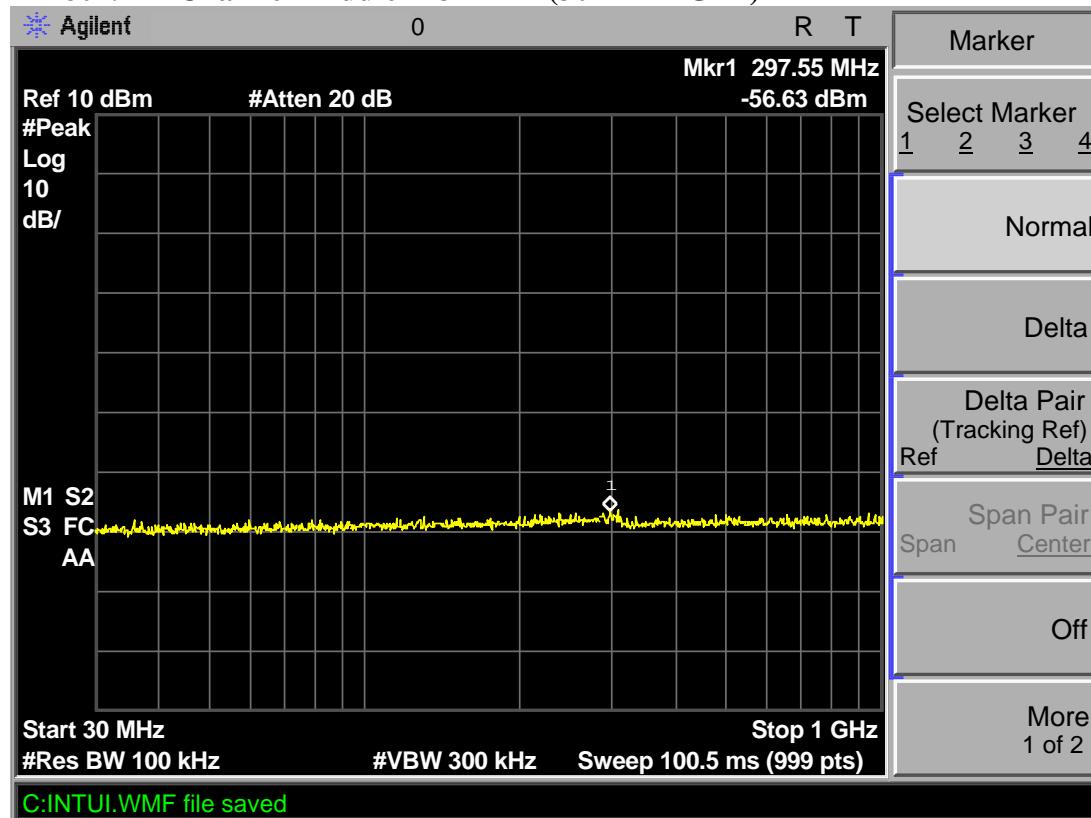
TX 802.11n Channel Low 2412MHz (15GHz-20GHz)



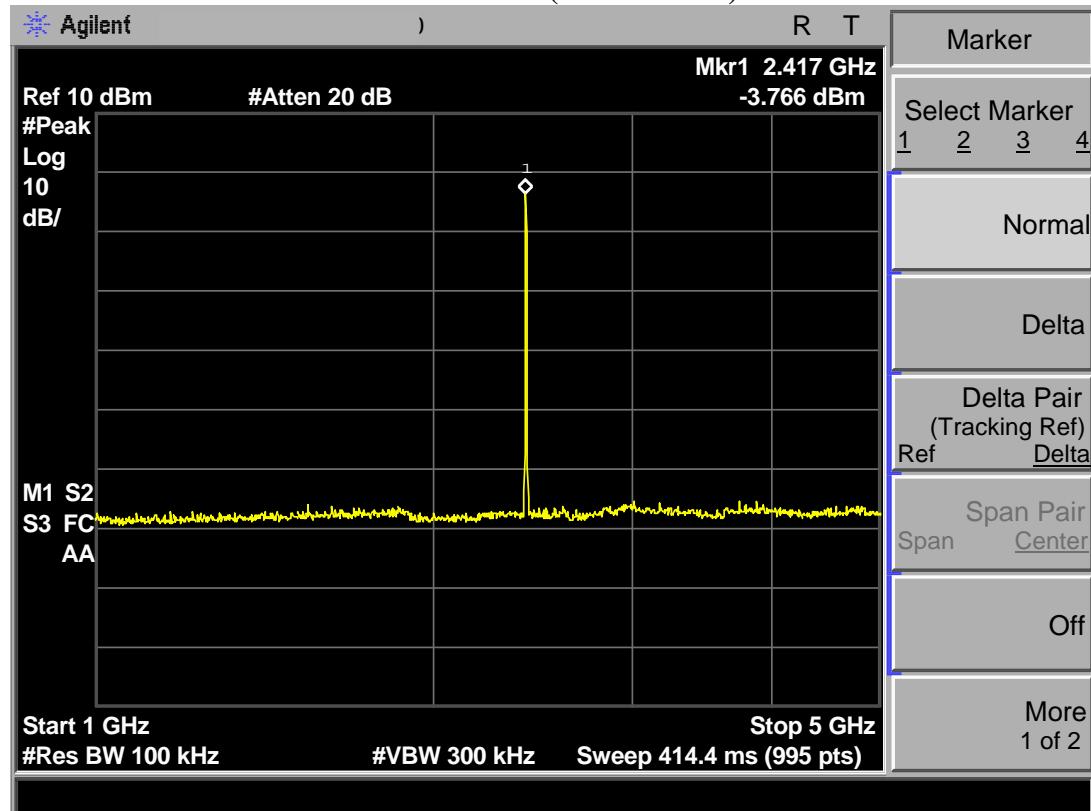
TX 802.11n Channel Low 2412MHz (20GHz-25GHz)



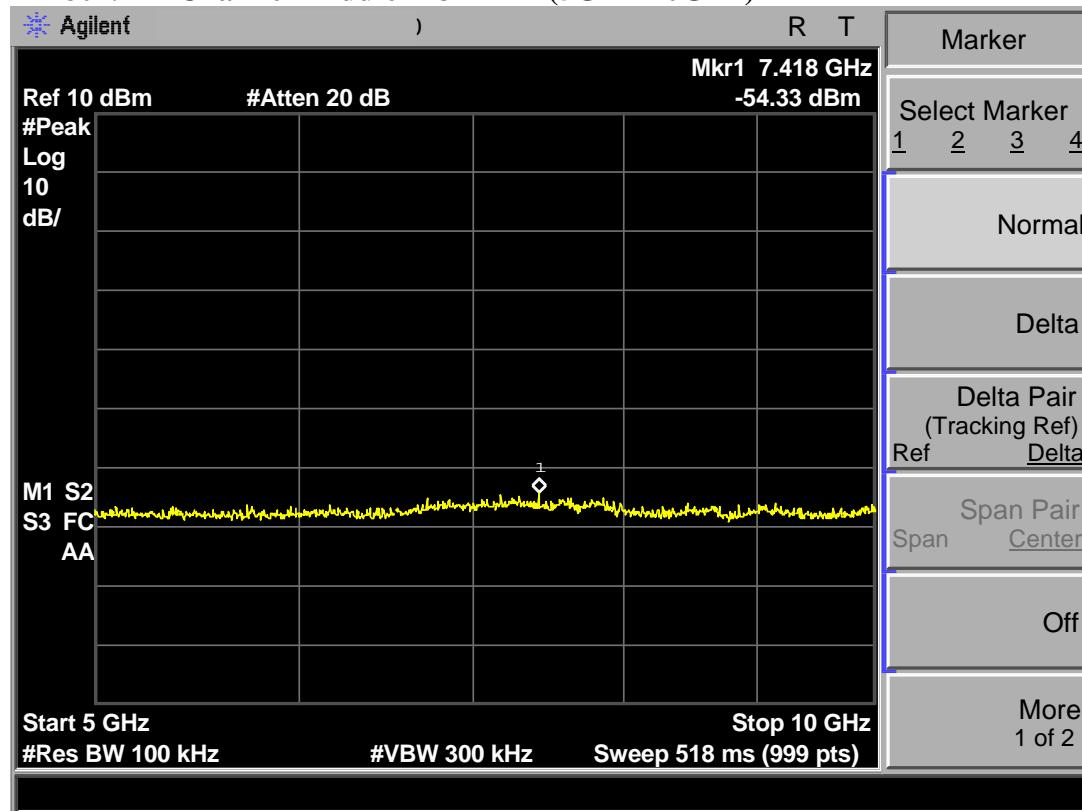
TX 802.11n Channel Middle 2437MHz (30MHz-1GHz)



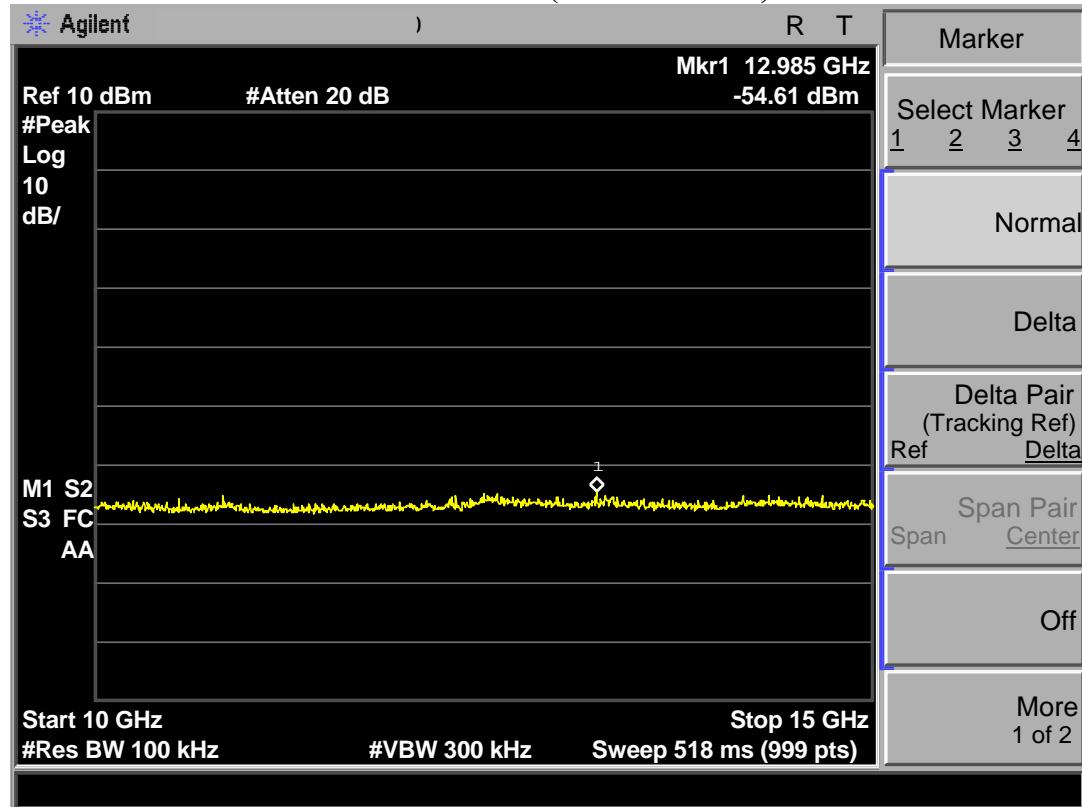
TX 802.11n Channel Middle 2437MHz (1GHz-5GHz)



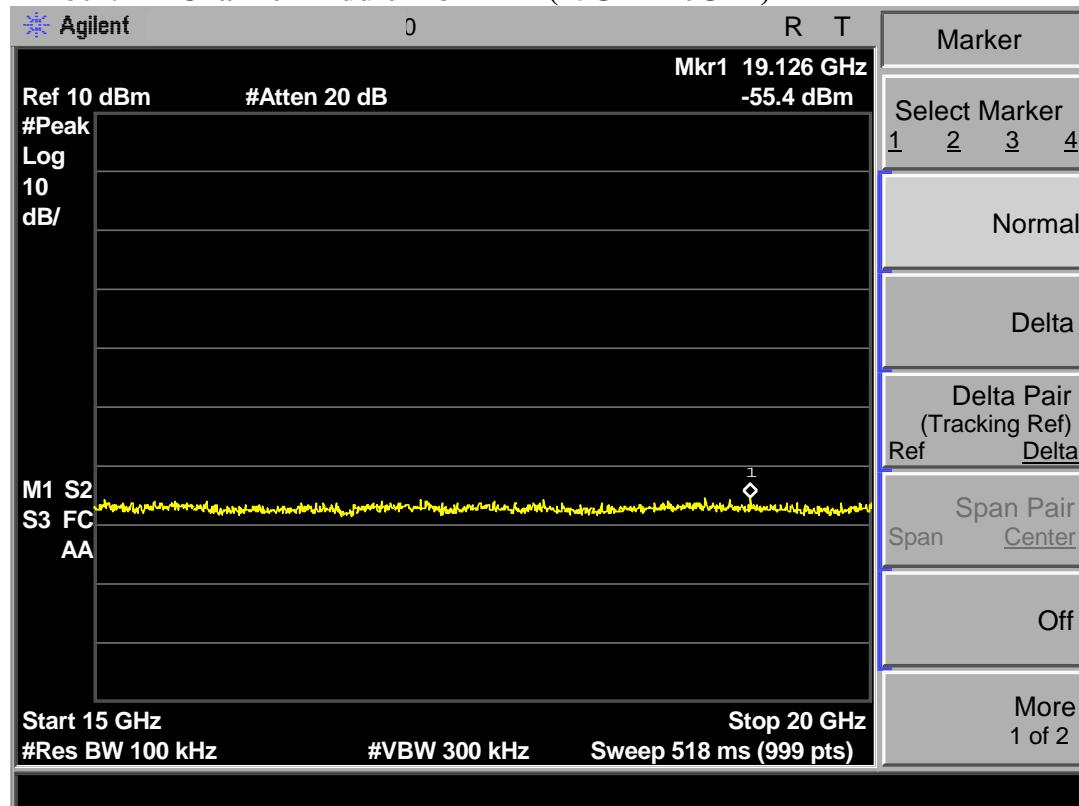
TX 802.11n Channel Middle 2437MHz (5GHz-10GHz)



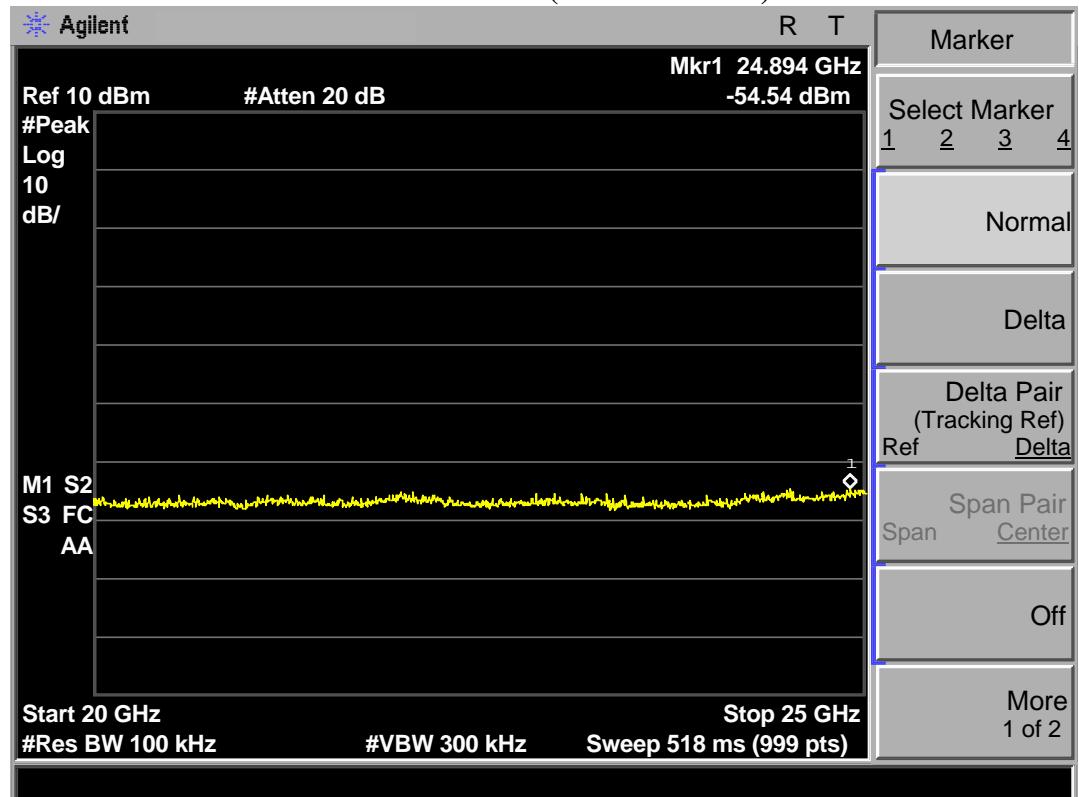
TX 802.11n Channel Middle 2437MHz (10GHz-15GHz)

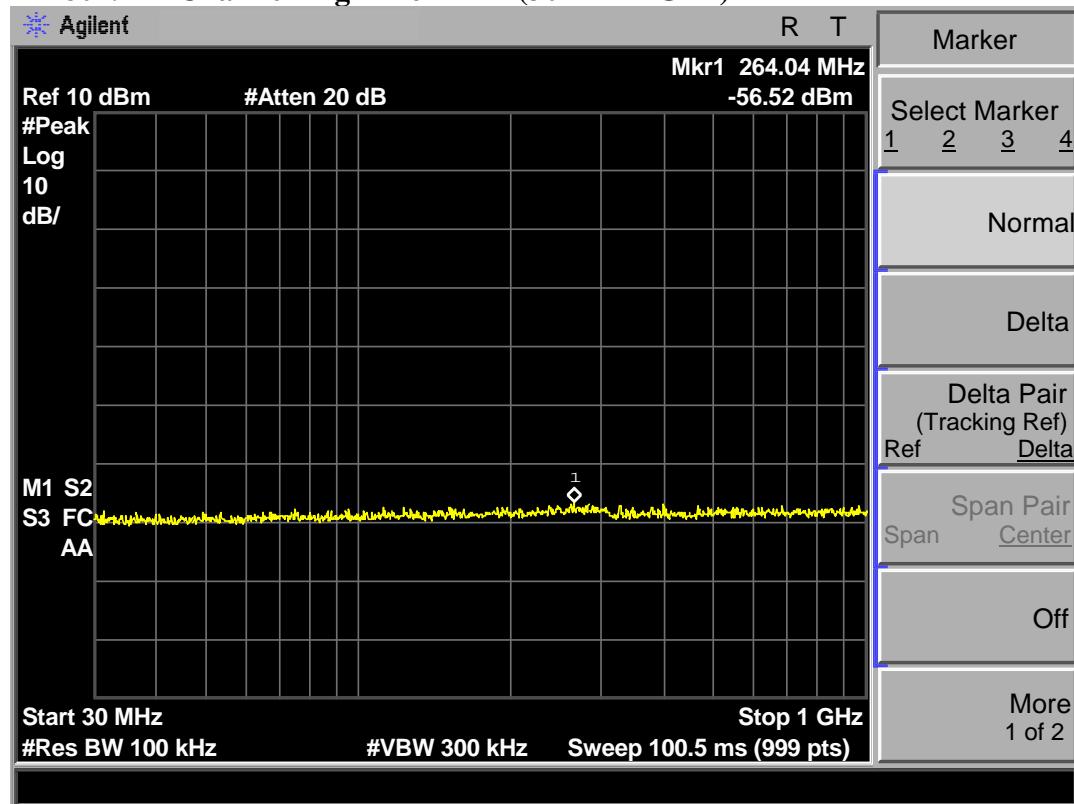
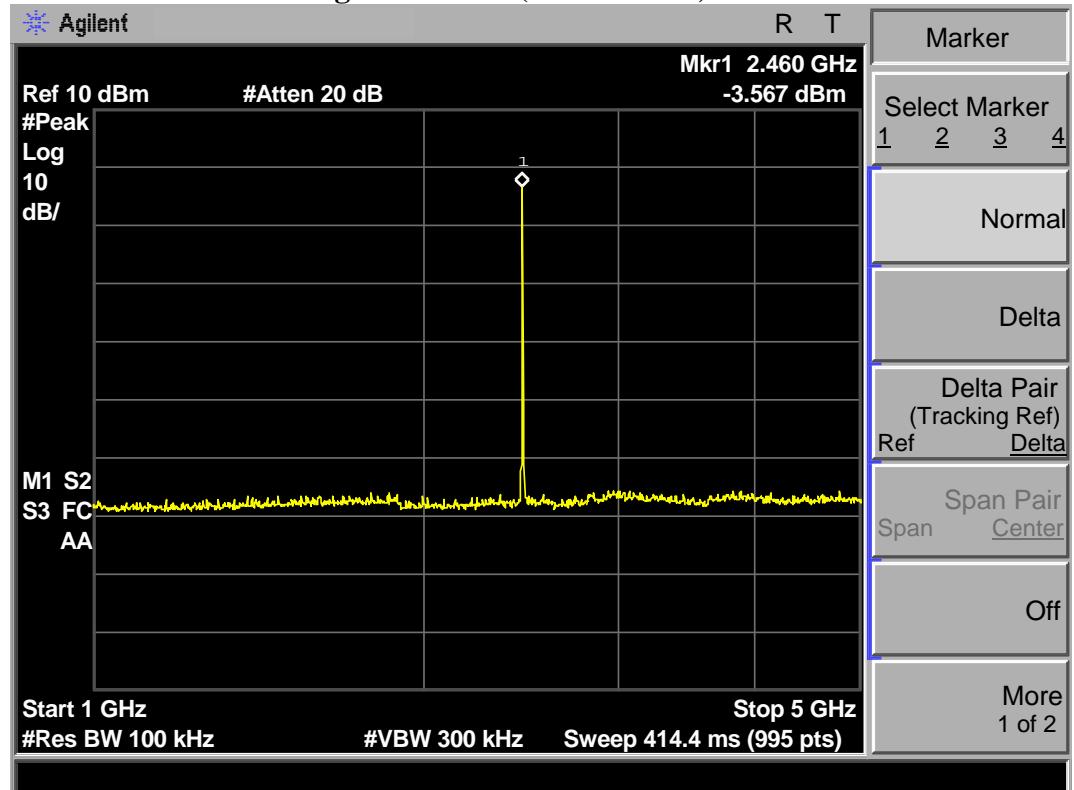


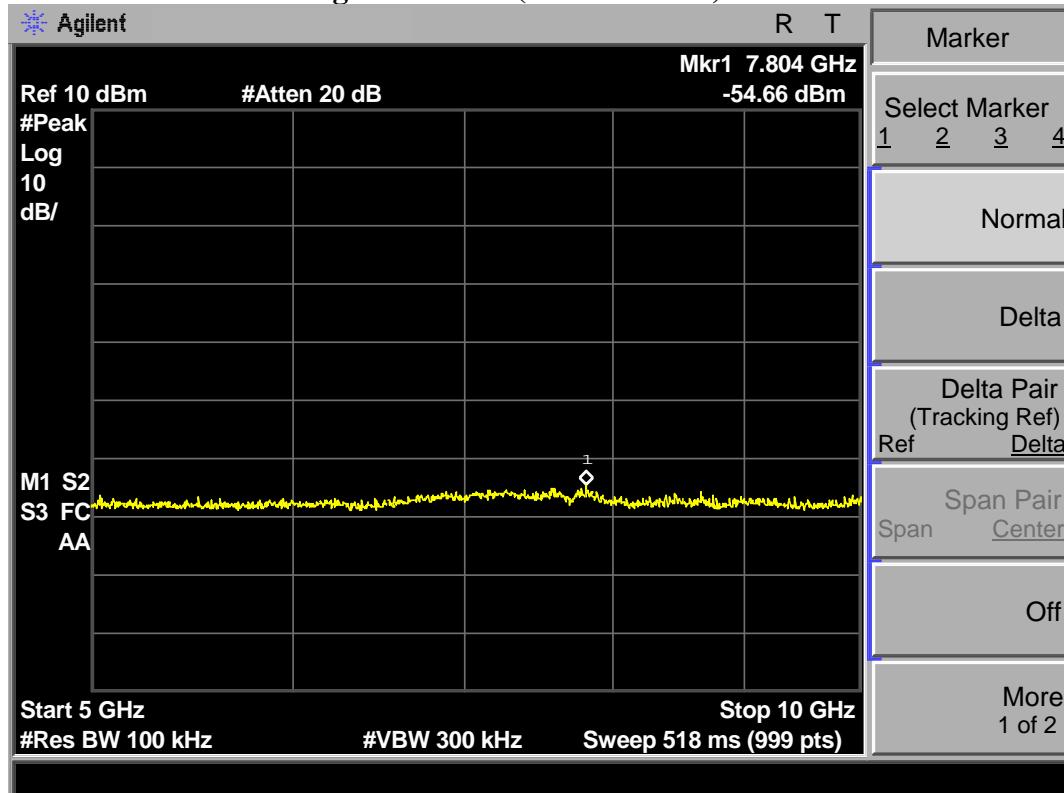
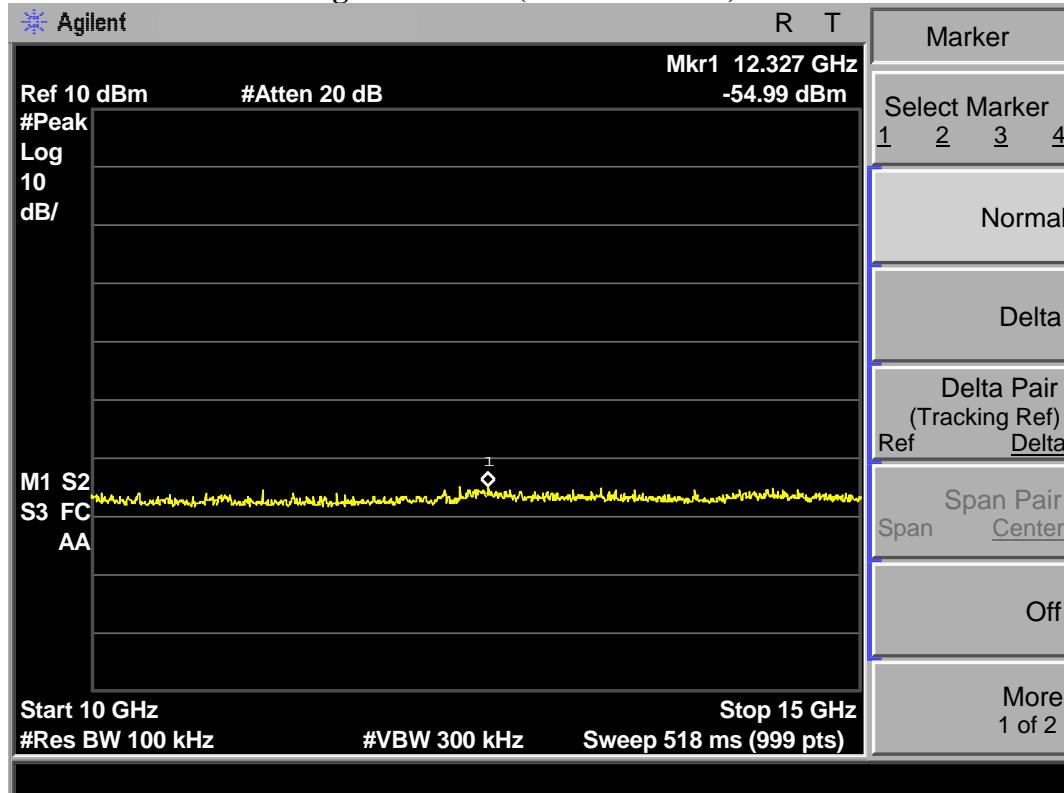
TX 802.11n Channel Middle 2437MHz (15GHz-20GHz)

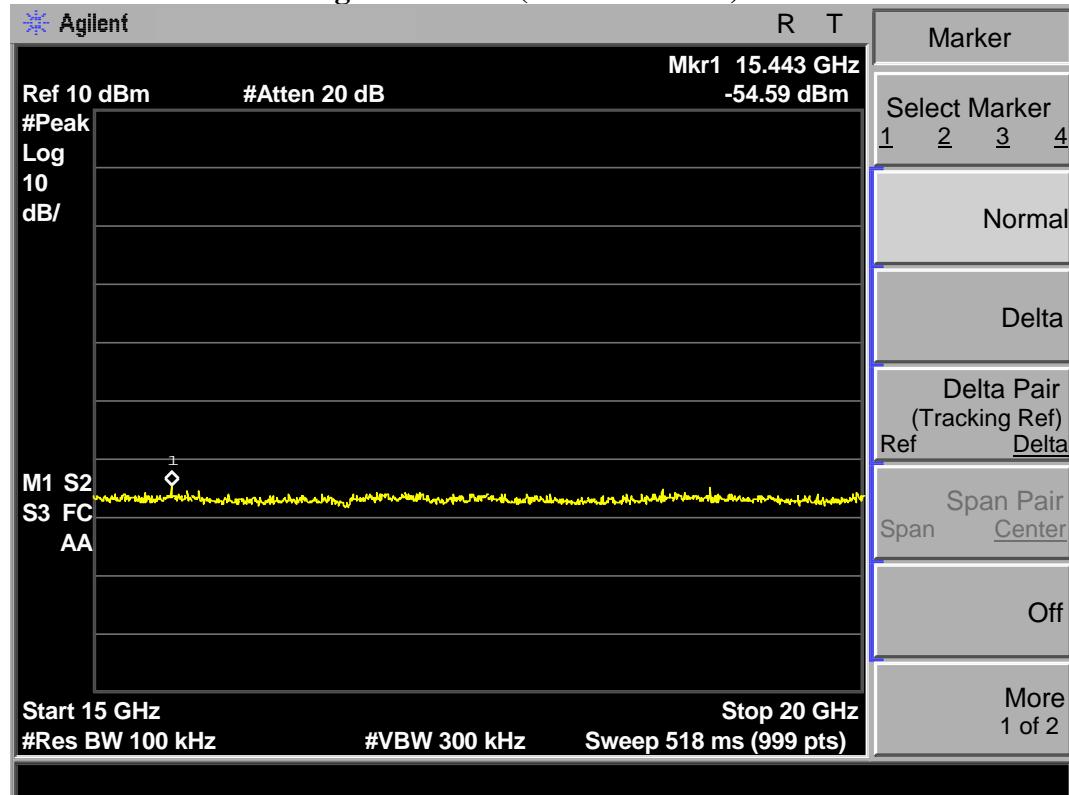
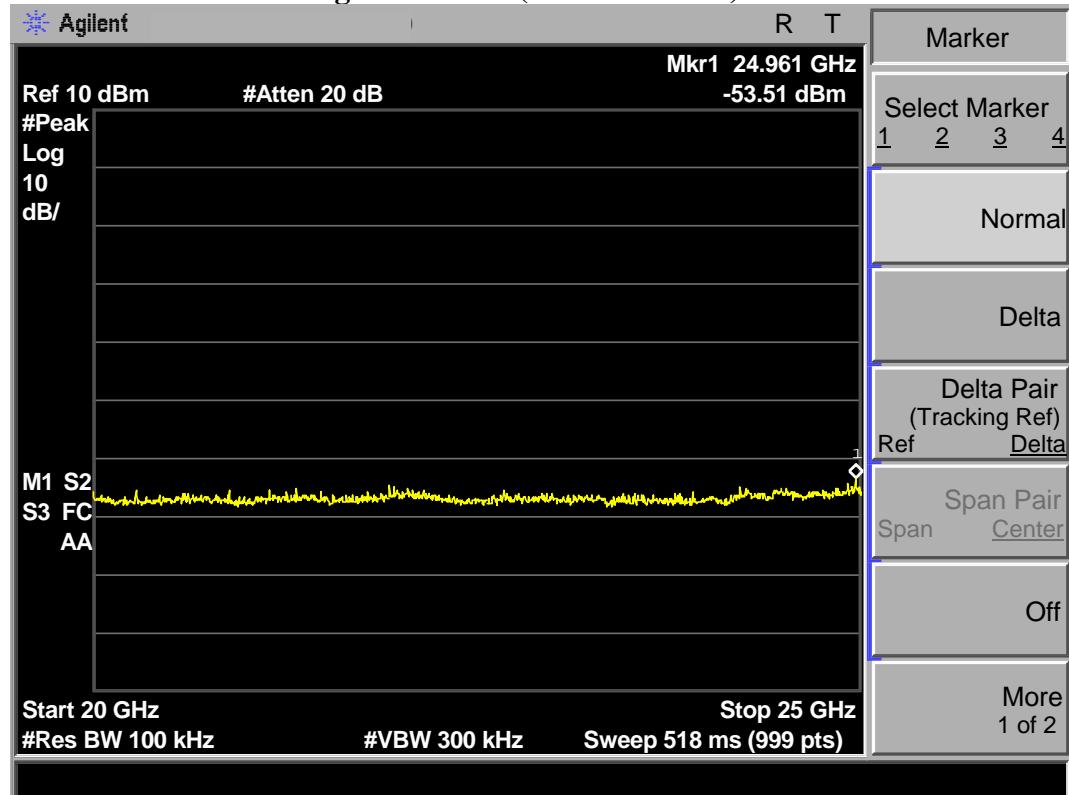


TX 802.11n Channel Middle 2437MHz (20GHz-25GHz)



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)**

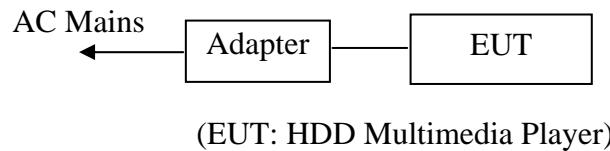
TX 802.11n Channel High 2462MHz (15GHz-20GHz)**TX 802.11n Channel High 2462MHz (20GHz-25GHz)**

11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

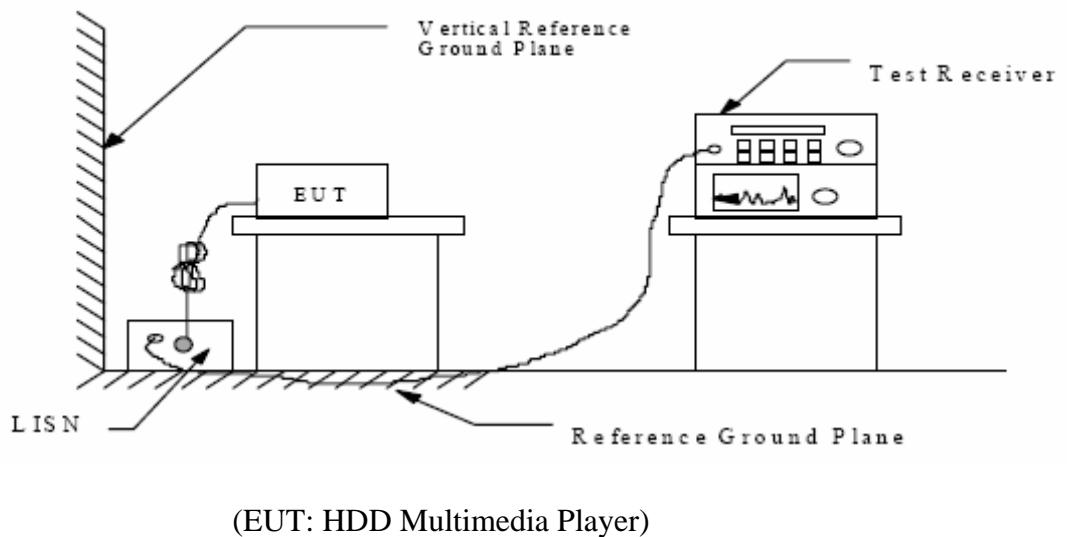
15 SECTION 15.207(A)

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(μ 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.HDD Multimedia Player (EUT)

Model Number	:	Xtreamer Sidewinder 2
Serial Number	:	N/A
Manufacturer	:	XTREAMER LIMITED

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:	September 3, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	Power Supply:	AC 120V/60Hz
Test Mode:	TX 802.11b Channel Middle	Test Engineer:	Pei

Frequency (MHz)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Line
0.198359	52.70	63.7	-11.0	QP	Neutral
0.298051	46.00	60.3	-14.3	QP	
1.593857	34.80	56.0	-21.2	QP	
0.198359	40.10	53.7	-13.6	AV	
0.596975	32.80	46.0	-13.2	AV	
1.593857	29.30	46.0	-16.7	AV	
0.198359	51.50	63.7	-12.2	QP	Live
0.298051	44.20	60.3	-16.1	QP	
0.596975	40.20	56.0	-15.8	QP	
0.596975	33.20	46.0	-12.8	AV	
1.593857	30.80	46.0	-15.2	AV	
1.692213	30.40	46.0	-15.6	AV	

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

Date of Test:	September 3, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	Power Supply:	AC 120V/60Hz
Test Mode:	TX 802.11g Channel Middle	Test Engineer:	Pei

Frequency (MHz)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Line
0.198359	52.50	63.7	-11.2	QP	Neutral
0.298051	45.70	60.3	-14.6	QP	
0.596975	37.50	56.0	-18.5	QP	
0.198359	39.90	53.7	-13.8	AV	
0.599363	32.90	46.0	-13.1	AV	
1.593857	25.60	46.0	-20.4	AV	
0.199152	50.60	63.6	-13.0	QP	Live
0.299243	43.70	60.0	-16.6	QP	
0.599363	40.20	56.0	-15.8	QP	
0.599363	33.30	46.0	-12.7	AV	
1.600232	31.00	46.0	-15.0	AV	
1.698981	30.70	46.0	-15.3	AV	

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

Date of Test:	September 3, 2011	Temperature:	25°C
EUT:	HDD Multimedia Player	Humidity:	50%
Model No.:	Xtreamer Sidewinder 2	Power Supply:	AC 120V/60Hz
Test Mode:	TX 802.11n Channel Middle	Test Engineer:	Pei

Frequency (MHz)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Line
0.199152	52.20	63.6	-11.4	QP	Neutral
0.299243	45.70	60.3	-14.6	QP	
1.600232	35.20	56.0	-20.8	QP	
0.200748	39.50	53.6	-14.1	AV	
0.599363	33.00	46.0	-13.0	AV	
1.600232	29.70	46.0	-16.3	AV	
0.199152	50.40	63.6	-13.2	QP	Live
0.299243	43.50	60.3	-16.8	QP	
0.599363	40.10	56.0	-15.9	QP	
0.599363	33.40	46.0	-12.6	AV	
1.600232	31.20	46.0	-14.8	AV	
16.208260	36.00	50.0	-14.0	AV	

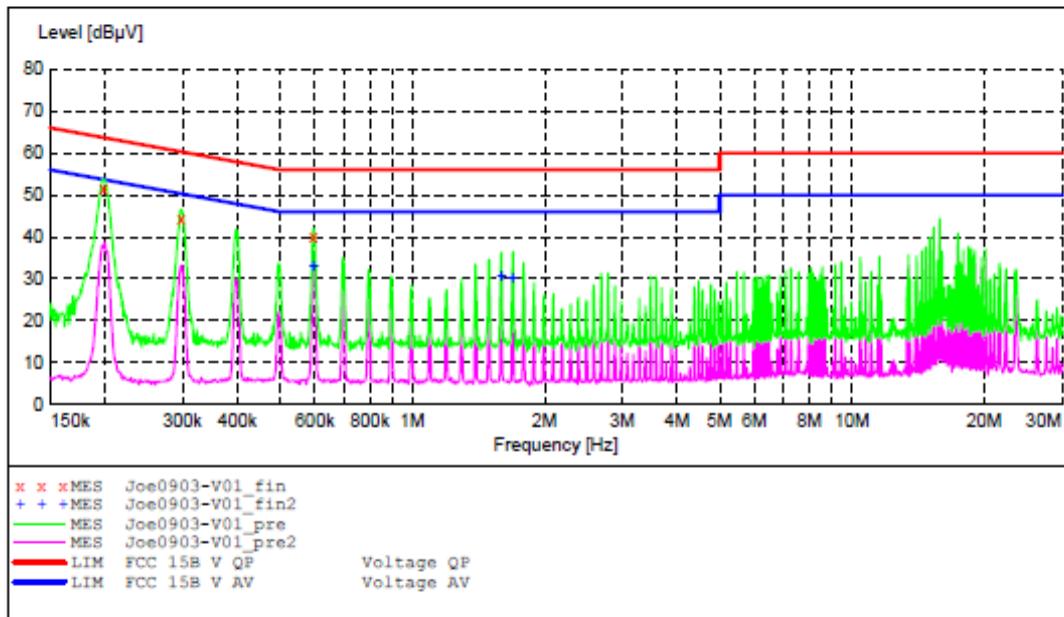
Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: HDD multimedia player M/N:Xtreamer Sidewinder 2
 Manufacturer: UNICORN
 Operating Condition: TX Channel 6 (802.11b)
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: L 120V/60Hz
 Comment:
 Start of Test: 9/3/2011 / 9:33:56AM

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

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

**MEASUREMENT RESULT: "Star0903-V01_fin"**

9/3/2011 9:36AM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.198359	51.50	11.2	63.7	12.2	QP	L1	GND
0.298051	44.20	11.6	60.3	16.1	QP	L1	GND
0.596975	40.20	12.0	56.0	15.8	QP	L1	GND

MEASUREMENT RESULT: "Star0903-V01_fin2"

9/3/2011 9:36AM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.596975	33.20	12.0	46.0	12.8	AV	L1	GND
1.593857	30.80	11.7	46.0	15.2	AV	L1	GND
1.692213	30.40	11.7	46.0	15.6	AV	L1	GND

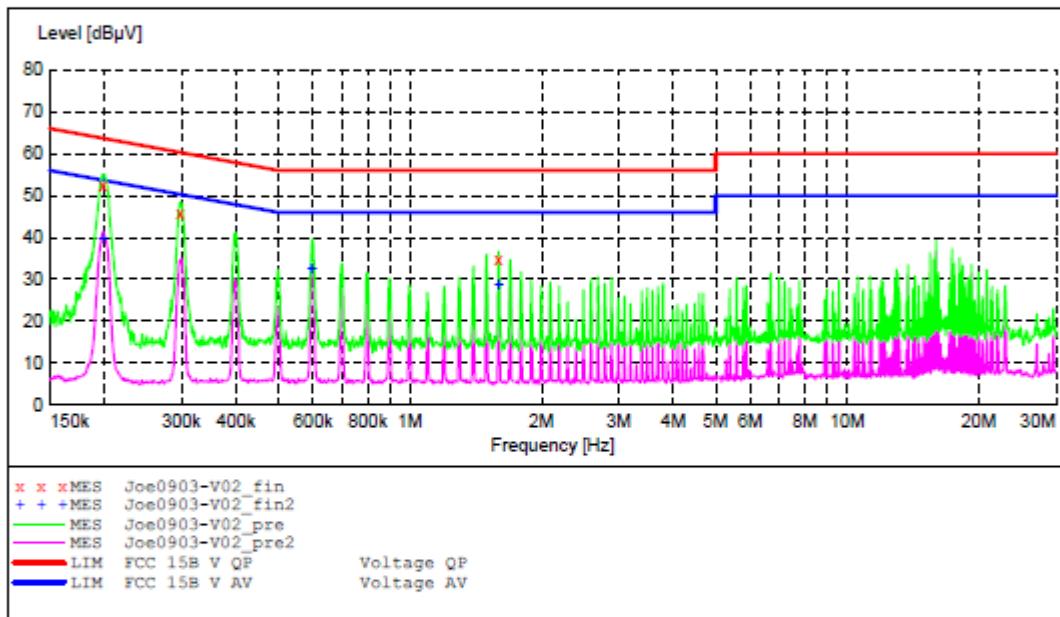
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: HDD multimedia player M/N:Xtreamer Sidewinder 2
 Manufacturer: UNICORN
 Operating Condition: TX Channel 6 (802.11b)
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: N 120V/60Hz
 Comment:
 Start of Test: 9/3/2011 / 9:37:37AM

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

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

**MEASUREMENT RESULT: "Star0903-V02_fin"**

9/03/2011 9:40AM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.198359	52.70	11.2	63.7	11.0	QP	N	GND
0.298051	46.00	11.6	60.3	14.3	QP	N	GND
1.593857	34.80	11.7	56.0	21.2	QP	N	GND

MEASUREMENT RESULT: "Star0903-V02_fin2"

9/03/2011 9:40AM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.198359	40.10	11.2	53.7	13.6	AV	N	GND
0.596975	32.80	12.0	46.0	13.2	AV	N	GND
1.593857	29.30	11.7	46.0	16.7	AV	N	GND

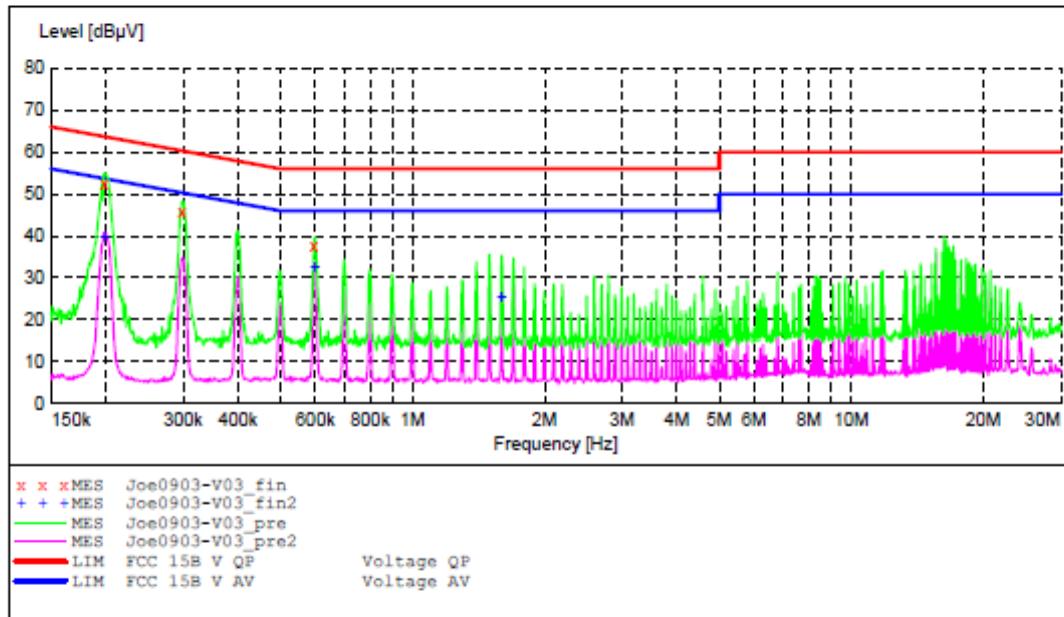
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: HDD multimedia player M/N:Xtreamer Sidewinder 2
 Manufacturer: UNICORN
 Operating Condition: TX Channel 6 (802.11g)
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: N 120V/60Hz
 Comment:
 Start of Test: 9/03/2011 / 9:40:43AM

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

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



MEASUREMENT RESULT: "Star0903-V03_fin"

9/03/2011 9:43AM							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBμV	dB	dBμV	dB			
0.198359	52.50	11.2	63.7	11.2	QP	N	GND
0.298051	45.70	11.6	60.3	14.6	QP	N	GND
0.596975	37.50	12.0	56.0	18.5	QP	N	GND

MEASUREMENT RESULT: "Star0903-V03_fin2"

9/03/2011 9:43AM							
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBμV	dB	dBμV	dB			
0.198359	39.90	11.2	53.7	13.8	AV	N	GND
0.599363	32.90	12.0	46.0	13.1	AV	N	GND
1.593857	25.60	11.7	46.0	20.4	AV	N	GND

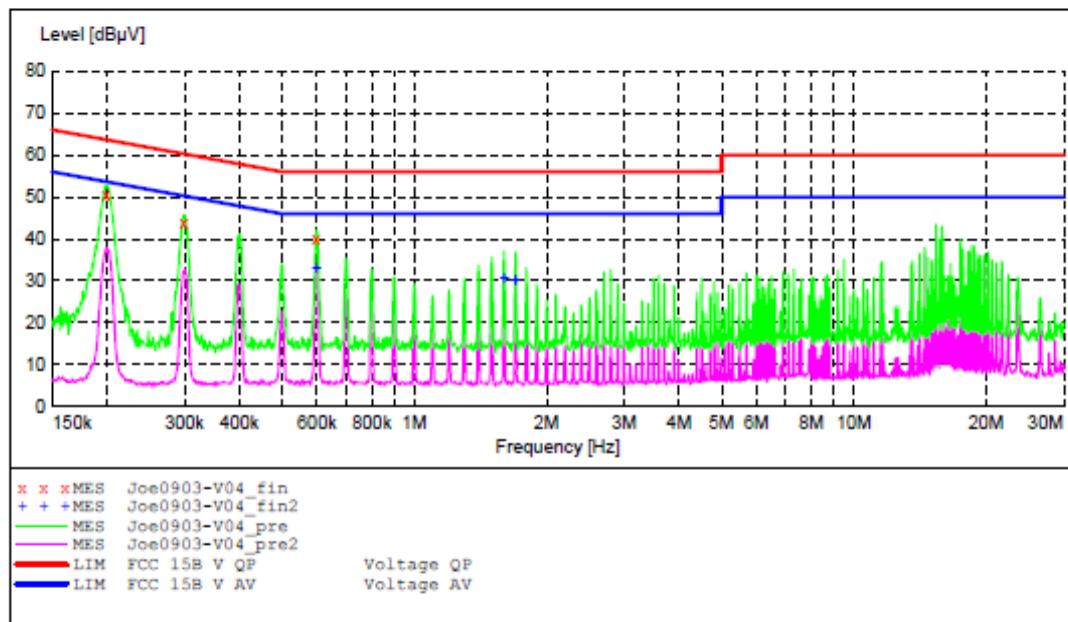
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: HDD multimedia player M/N:Xtreamer Sidewinder 2
 Manufacturer: UNICORN
 Operating Condition: TX Channel 6 (802.11g)
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: L 120V/60Hz
 Comment:
 Start of Test: 9/3/2011 / 9:44:13AM

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

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



MEASUREMENT RESULT: "Star0903-V04_fin"

9/03/2011 9:46AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.199152	50.60	11.2	63.6	13.0	QP	L1	GND
	0.299243	43.70	11.6	60.0	16.6	QP	L1	GND
	0.599363	40.20	12.0	56.0	15.8	QP	L1	GND

MEASUREMENT RESULT: "Star0903-V04_fin2"

9/03/2011 9:46AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.599363	33.30	12.0	46.0	12.7	AV	L1	GND
	1.600232	31.00	11.7	46.0	15.0	AV	L1	GND
	1.698981	30.70	11.7	46.0	15.3	AV	L1	GND

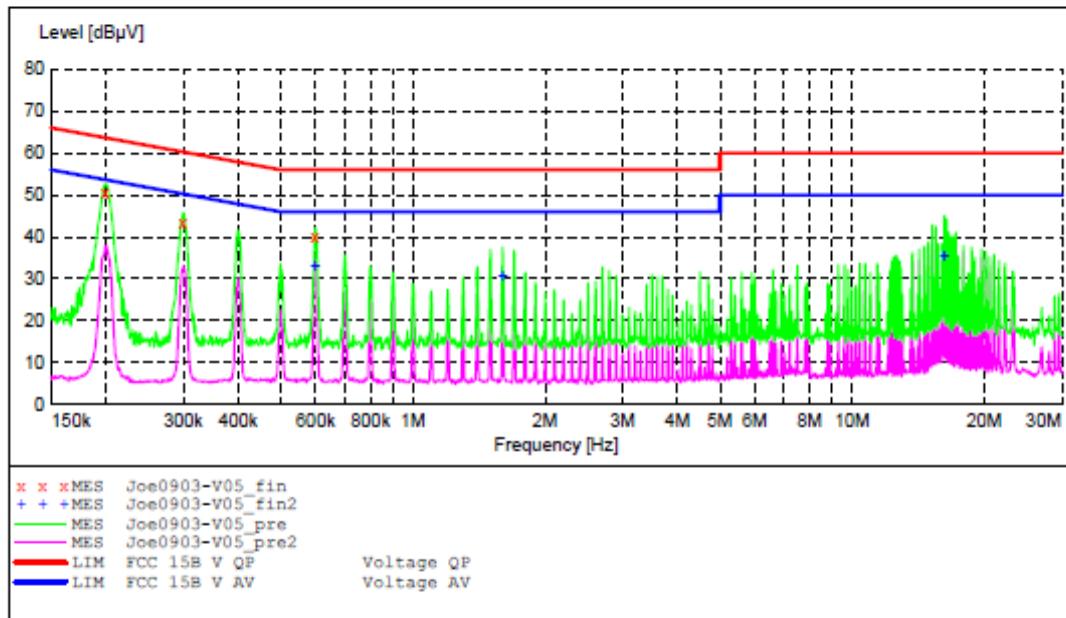
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: HDD multimedia player M/N:Xtreamer Sidewinder 2
 Manufacturer: UNICORN
 Operating Condition: TX Channel 6 (802.11n)
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: L 120V/60Hz
 Comment:
 Start of Test: 9/3/2011 / 9:47:16AM

SCAN TABLE: "V_150K-30MHz_fin"

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



MEASUREMENT RESULT: "Star0903-V05_fin"

9/03/2011 9:49AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.199152	50.40	11.2	63.6	13.2	QP	L1	GND
	0.299243	43.50	11.6	60.3	16.8	QP	L1	GND
	0.599363	40.10	12.0	56.0	15.9	QP	L1	GND

MEASUREMENT RESULT: "Star0903-V05_fin2"

9/03/2011 9:49AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.599363	33.40	12.0	46.0	12.6	AV	L1	GND
	1.600232	31.20	11.7	46.0	14.8	AV	L1	GND
	16.208260	36.00	11.2	50.0	14.0	AV	L1	GND

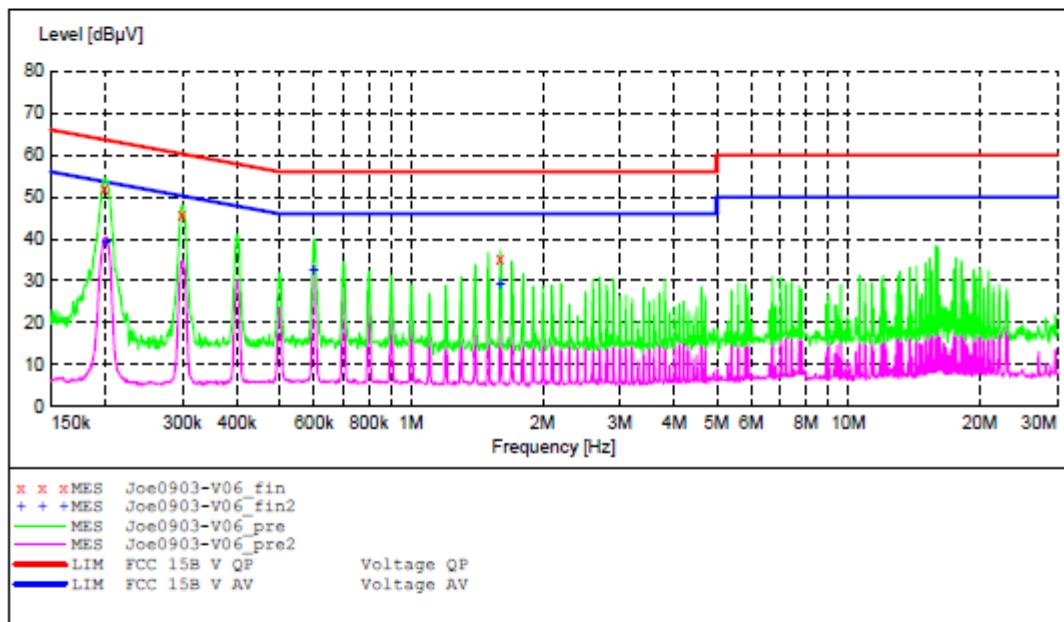
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: HDD multimedia player M/N:Xtreamer Sidewinder 2
 Manufacturer: UNICORN
 Operating Condition: TX Channel 6 (802.11n)
 Test Site: 1#Shielding Room
 Operator: Star
 Test Specification: N 120V/60Hz
 Comment:
 Start of Test: 9/03/2011 / 9:50:32AM

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

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



MEASUREMENT RESULT: "Star0903-V06_fin"

9/03/2011 9:52AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.199152	52.20	11.2	63.6	11.4	QP	N	GND
	0.299243	45.70	11.6	60.3	14.6	QP	N	GND
	1.600232	35.20	11.7	56.0	20.8	QP	N	GND

MEASUREMENT RESULT: "Star0903-V06_fin2"

9/03/2011 9:52AM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.200748	39.50	11.2	53.6	14.1	AV	N	GND
	0.599363	33.00	12.0	46.0	13.0	AV	N	GND
	1.600232	29.70	11.7	46.0	16.3	AV	N	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

The wireless module has two antenna ports but this device only apply to A port. 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.

