

APPLICATION CERTIFICATION FCC Part 15C  
On Behalf of  
SHENZHEN AINOL ELECTRON CO.,LTD

Novo10 Hero II User Manual  
Model No.: Novo10 Hero II

FCC ID: 2ABTP-NOVO10-II

Prepared for : SHENZHEN AINOL ELECTRON CO.,LTD  
Address : Room 606,Bldg B,7 Star Business Plaza, Minzhi Street,  
Longhua District, Shenzhen, China  
Prepared by : ACCURATE TECHNOLOGY CO., LTD  
Address : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.  
Science & Industry Park, Nanshan, Shenzhen, Guangdong  
P.R. China

Tel: (0755) 26503290  
Fax: (0755) 26503396

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## Test Report Certification

Applicant : SHENZHEN AINOL ELECTRON CO.,LTD  
Manufacturer : SHENZHEN AINOL ELECTRON CO.,LTD  
EUT Description : Novo10 Hero II User Manual  
(A) MODEL NO.: Novo10 Hero II  
(B) Trade Name.: Ainol  
(C) POWER SUPPLY: DC 3.7V (Powered by battery) or AC 120V/60Hz  
(Powered by adapter)

Measurement Procedure Used:

**FCC Rules and Regulations Part 15 Subpart C Section 15.247  
ANSI C63.4: 2009**

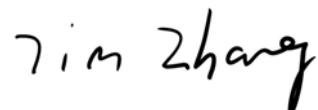
The EUT was tested according to DTS test procedure of April 09, 2013 KDB558074 D01 DTS Meas Guidance v03 for compliance to FCC 47CFR 15.247 requirements

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 : \_\_\_\_\_ Dec 02, 2013-Feb 28, 2014

Prepared by :



(Tim.zhang, Engineer)

Approved & Authorized Signer :



( Sean Liu, Manager)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

EUT	:	Novo10 Hero II User Manual
Model Number	:	Novo10 Hero II
Frequency Range	:	802.11b/g/n(20MHz): 2412-2462MHz 802.11n(40MHz): 2422-2452MHz
Number of Channels	:	802.11b/g/n (20MHz):11 802.11n (40MHz): 7
Antenna Gain	:	1.5dBi
Type of Antenna	:	Integral Antenna
Power Supply	:	DC 3.7V (Powered by Battery) AC 120V/60Hz (Powered by Adapter)
Data Rate	:	802.11b: 11, 5.5, 2, 1 Mbps 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps 802.11n: up to 150Mbps
Adapter	:	Model:ZESS0503000C Input: AC 100-240V 50/60Hz 0.5A Output: 5.0V 3.0A
Modulation Type	:	CCK, OFDM
Applicant	:	SHENZHEN AINOL ELECTRON CO.,LTD
Address	:	Room 606,Bldg B,7 Star Business Plaza, Minzhi Street, Longhua District, Shenzhen, China
Manufacturer	:	SHENZHEN AINOL ELECTRON CO.,LTD
Address	:	Room 606,Bldg B,7 Star Business Plaza, Minzhi Street, Longhua District, Shenzhen, China
Date of sample received	:	Dec 02, 2013
Date of Test	:	Dec 02, 2013-Feb 28, 2014

## 1.2.Carrier Frequency of Channels

802.11b, 802.11g, 802.11n (20MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	---	---

802.11n (40MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
03	2422	09	2452
04	2427	---	---
05	2432	---	---
06	2437	---	---

## 1.3.Accessory and Auxiliary Equipment

N/A

## 1.4.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

### 1.5.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 dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 11, 2014	Jan. 10, 2015
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 11, 2014	Jan. 10, 2015
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 11, 2014	Jan. 10, 2015
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 11, 2014	Jan. 10, 2015
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2014	Jan. 14, 2015
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2014	Jan. 14, 2015
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2014	Jan. 14, 2015
Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan. 15, 2014	Jan. 14, 2015
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 11, 2014	Jan. 10, 2015
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 11, 2014	Jan. 10, 2015
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 11, 2014	Jan. 10, 2015
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 11, 2014	Jan. 10, 2015

### 3. OPERATION OF EUT DURING TESTING

#### 3.1.Operating Mode

The mode is used: **1.802.11b Transmitting mode**

Low Channel: 2412MHz  
Middle Channel: 2437MHz  
High Channel: 2462MHz

**2.802.11g Transmitting mode**

Low Channel: 2412MHz  
Middle Channel: 2437MHz  
High Channel: 2462MHz

**3.802.11n (20MHz) Transmitting mode**

Low Channel: 2412MHz  
Middle Channel: 2437MHz  
High Channel: 2462MHz

**4.802.11n (40MHz) Transmitting mode**

Low Channel: 2422MHz  
Middle Channel: 2437MHz  
High Channel: 2452MHz

#### 3.2.Configuration and peripherals

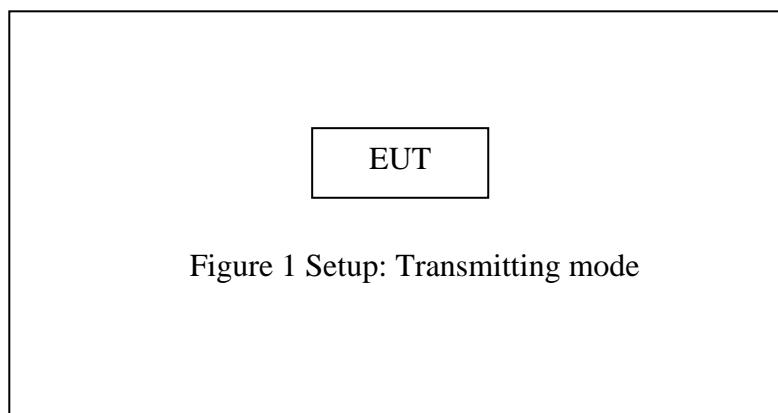


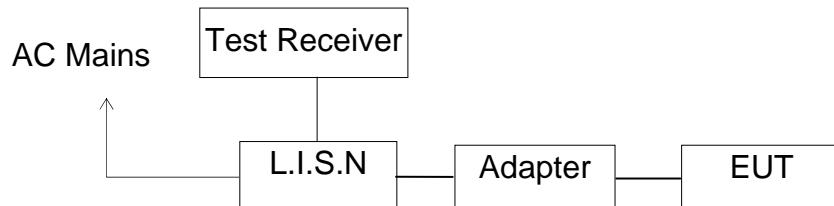
Figure 1 Setup: Transmitting mode

#### 4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.207	Power Line Conducted Emission	Compliant
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 15.203	Antenna Requirement	Compliant

## 5. POWER LINE CONDUCTED MEASUREMENT

### 5.1. Block Diagram of Test Setup



(EUT: Novo10 Hero II User Manual)

### 5.2. Power Line Conducted Emission Measurement Limits

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

NOTE1: The lower limit shall apply at the transition frequencies.  
NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

### 5.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

### 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 test mode and measure it.

### 5.5. 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: 2009 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.

## 5.6.Power Line Conducted Emission Measurement Results

**PASS.**

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

Test mode : Charging&WIFI communicating								
<b><u>MEASUREMENT RESULT: "H-1206-F02_fin"</u></b>								
12/6/2013 3:27PM								
Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE	
0.466086	45.70	10.7	57	10.9	QP	N	GND	
1.613059	38.30	10.9	56	17.7	QP	N	GND	
5.279139	34.50	11.2	60	25.5	QP	N	GND	
<b><u>MEASUREMENT RESULT: "H-1206-F02_fin2"</u></b>								
12/6/2013 3:27PM								
Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE	
0.462379	30.20	10.7	47	16.4	AV	N	GND	
0.999091	23.00	10.8	46	23.0	AV	N	GND	
5.407112	24.00	11.2	50	26.0	AV	N	GND	
<b><u>MEASUREMENT RESULT: "H-1206-F01_fin"</u></b>								
12/6/2013 3:24PM								
Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE	
0.455055	44.60	10.7	57	12.2	QP	L1	GND	
1.501217	39.30	10.9	56	16.7	QP	L1	GND	
5.582581	35.40	11.2	60	24.6	QP	L1	GND	
<b><u>MEASUREMENT RESULT: "H-1206-F01_fin2"</u></b>								
12/6/2013 3:24PM								
Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE	
0.446062	26.50	10.7	47	20.4	AV	L1	GND	
2.656834	27.60	11.0	46	18.4	AV	L1	GND	
5.364113	25.80	11.2	50	24.2	AV	L1	GND	

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

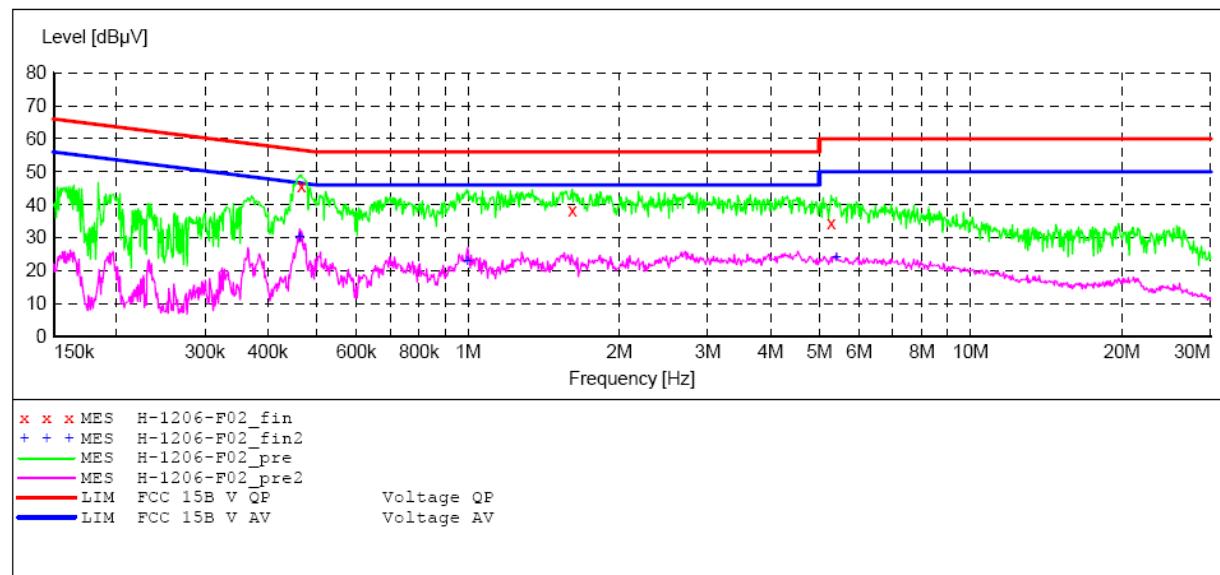
The spectral diagrams are attached as below.

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

EUT: Novo10 Hero II User Manual M/N:Novo10 Hero II  
 Manufacturer: Ainol  
 Operating Condition: WiFi&Charging  
 Test Site: 1#Shielding Room  
 Operator: Alen  
 Test Specification: N 120V/60Hz  
 Comment: Report NO:ATE20132549  
 Start of Test: 12/6/2013 / 3:24:47PM

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

Short Description: _SUB_STD_VTERM2 1.70					
Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz NSLK8126 2008 Average

**MEASUREMENT RESULT: "H-1206-F02\_fin"**

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.466086	45.70	10.7	57	10.9	QP	N	GND
1.613059	38.30	10.9	56	17.7	QP	N	GND
5.279139	34.50	11.2	60	25.5	QP	N	GND

**MEASUREMENT RESULT: "H-1206-F02\_fin2"**

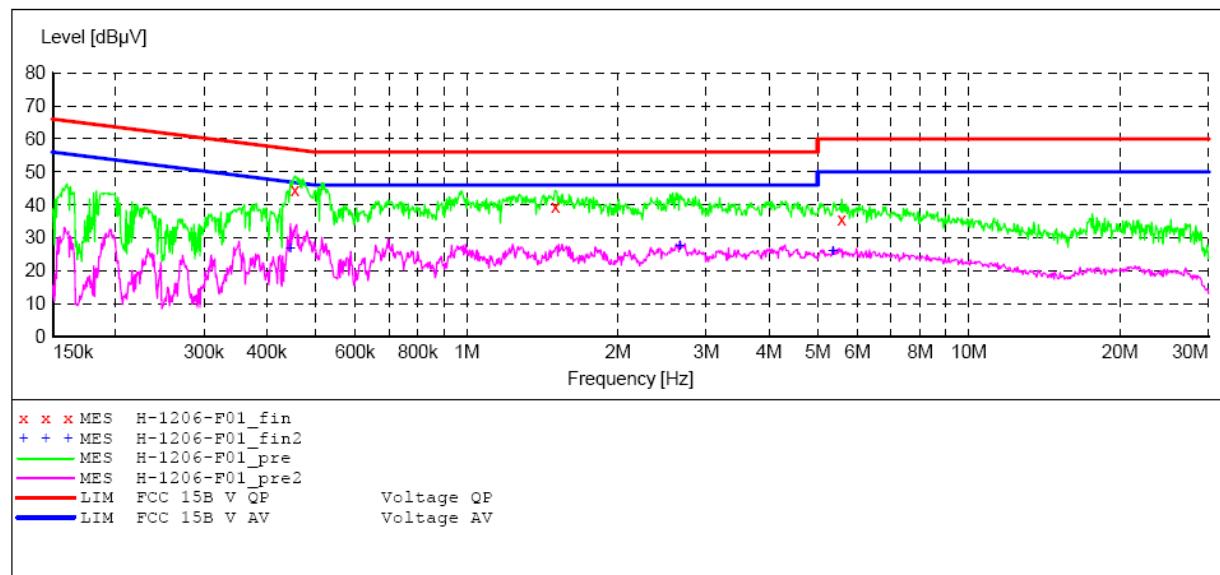
Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.462379	30.20	10.7	47	16.4	AV	N	GND
0.999091	23.00	10.8	46	23.0	AV	N	GND
5.407112	24.00	11.2	50	26.0	AV	N	GND

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

EUT: Novo10 Hero II User Manual M/N:Novo10 Hero II  
 Manufacturer: Ainol  
 Operating Condition: WiFi&Charging  
 Test Site: 1#Shielding Room  
 Operator: Alen  
 Test Specification: L 120V/60Hz  
 Comment: Report NO:ATE20132549  
 Start of Test: 12/6/2013 / 3:22:00PM

**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 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average

**MEASUREMENT RESULT: "H-1206-F01\_fin"**

12/6/2013 3:24PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.455055	44.60	10.7	57	12.2	QP	L1	GND
1.501217	39.30	10.9	56	16.7	QP	L1	GND
5.582581	35.40	11.2	60	24.6	QP	L1	GND

**MEASUREMENT RESULT: "H-1206-F01\_fin2"**

12/6/2013 3:24PM

Frequency MHz	Level dB $\mu$ V	Transd dB	Limit dB $\mu$ V	Margin dB	Detector	Line	PE
0.446062	26.50	10.7	47	20.4	AV	L1	GND
2.656834	27.60	11.0	46	18.4	AV	L1	GND
5.364113	25.80	11.2	50	24.2	AV	L1	GND

## 6. 6DB BANDWIDTH MEASUREMENT

### 6.1. Block Diagram of Test Setup



### 6.2. 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.

### 6.3. EUT Configuration on Measurement

The 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.

### 6.4. 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 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

### 6.5. Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz.
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

## 6.6. Test Result

The test was performed with 802.11b

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	10.12	> 0.5MHz
Middle	2437	10.12	> 0.5MHz
High	2462	10.12	> 0.5MHz

The test was performed with 802.11g

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	16.60	> 0.5MHz
Middle	2437	16.60	> 0.5MHz
High	2462	16.60	> 0.5MHz

The test was performed with 802.11n (Bandwidth: 20 MHz)

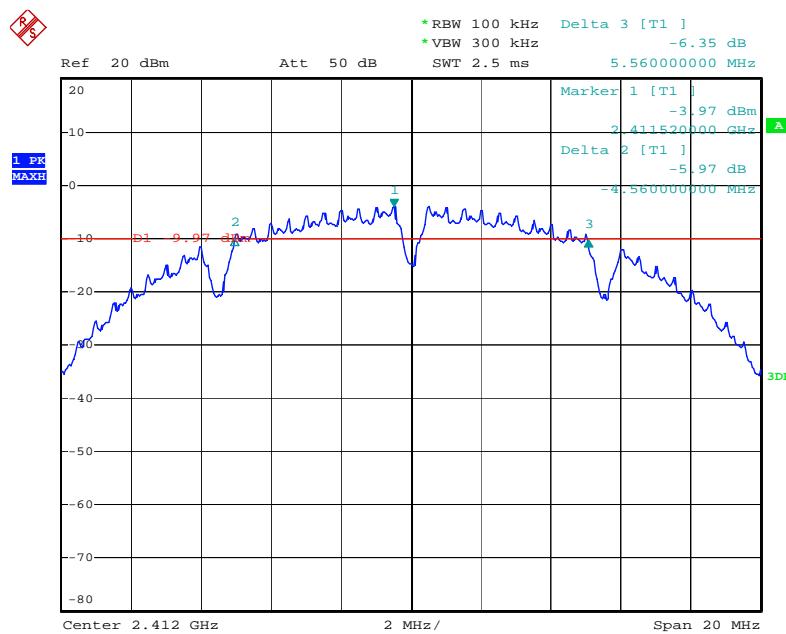
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	17.88	> 0.5MHz
Middle	2437	17.88	> 0.5MHz
High	2462	17.88	> 0.5MHz

The test was performed with 802.11n (Bandwidth: 40 MHz)

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2422	36.56	> 0.5MHz
Middle	2437	36.56	> 0.5MHz
High	2452	36.56	> 0.5MHz

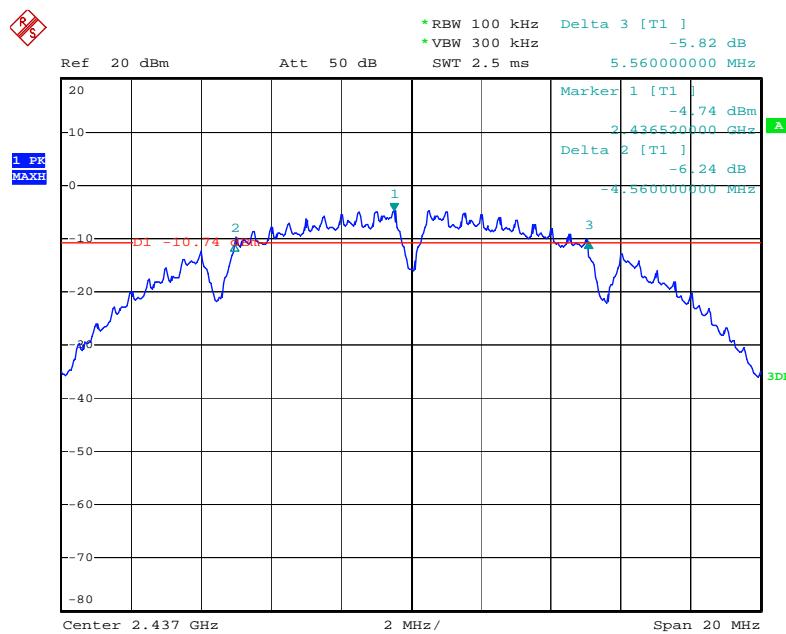
The spectrum analyzer plots are attached as below.

## 802.11b Channel Low 2412MHz



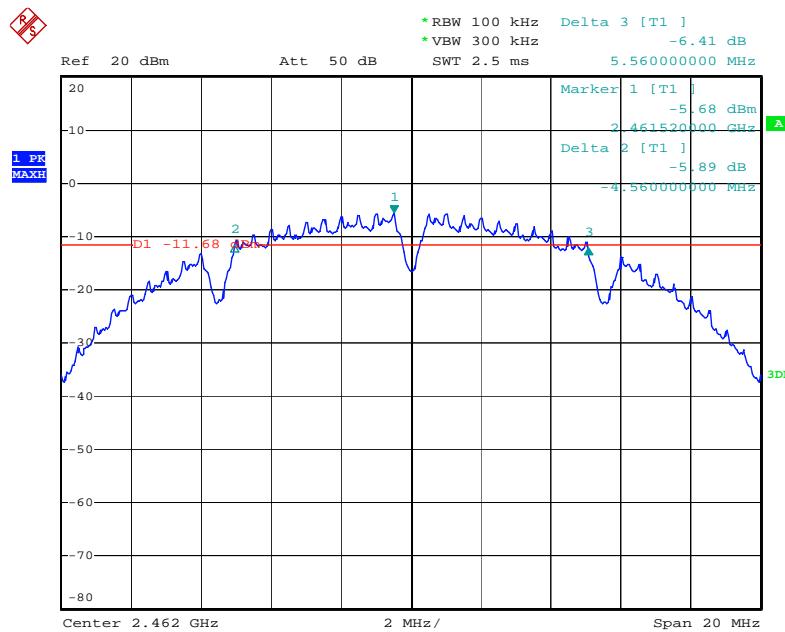
Date: 9.DEC.2013 08:53:06

## 802.11b Channel Middle 2437MHz



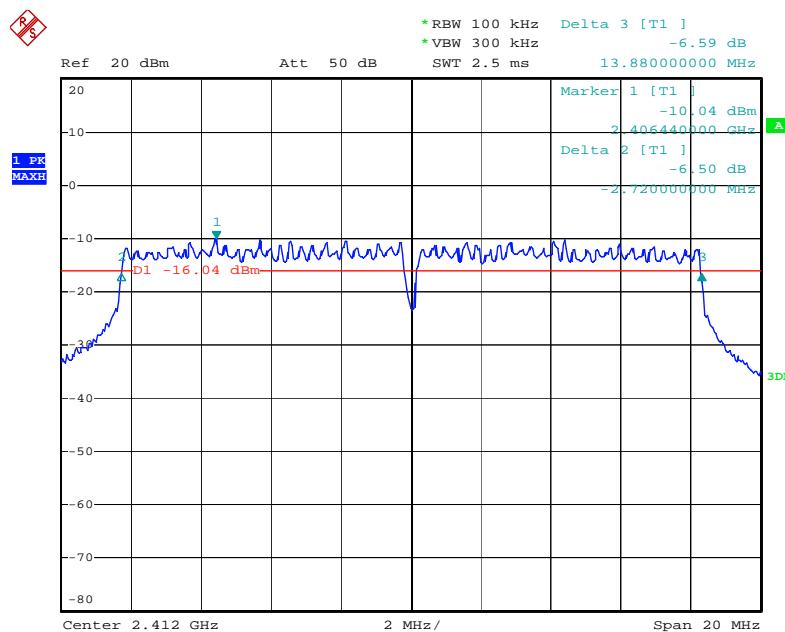
Date: 9.DEC.2013 08:56:50

## 802.11b Channel High 2462MHz



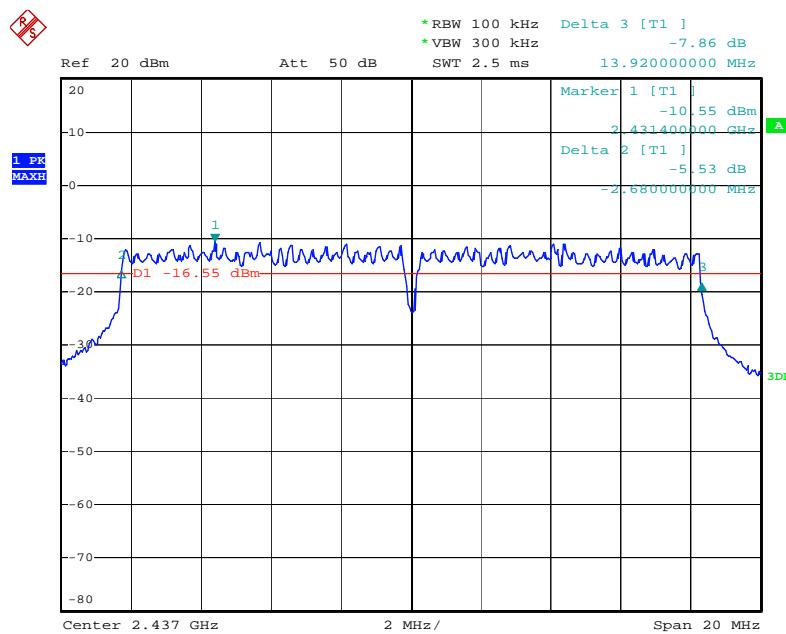
Date: 9.DEC.2013 09:01:45

## 802.11g Channel Low 2412MHz



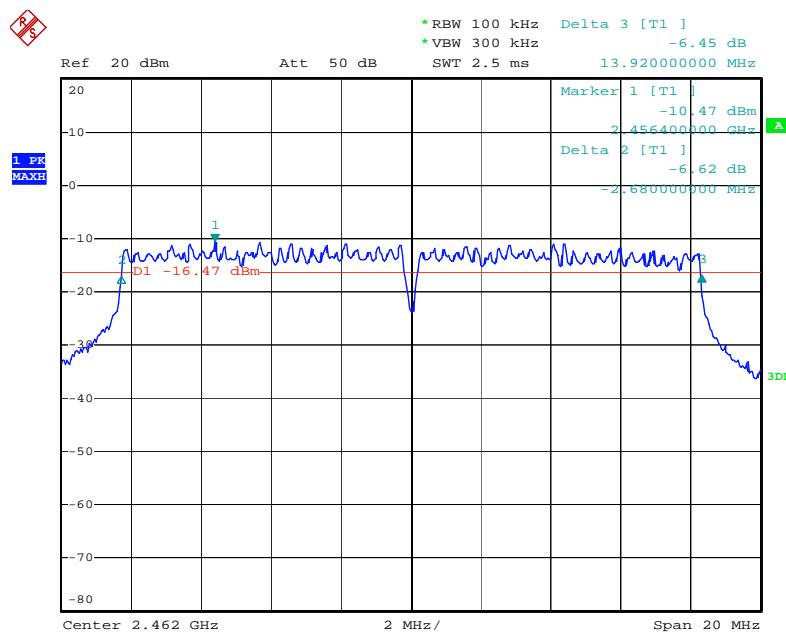
Date: 9.DEC.2013 09:14:05

## 802.11g Channel Middle 2437MHz



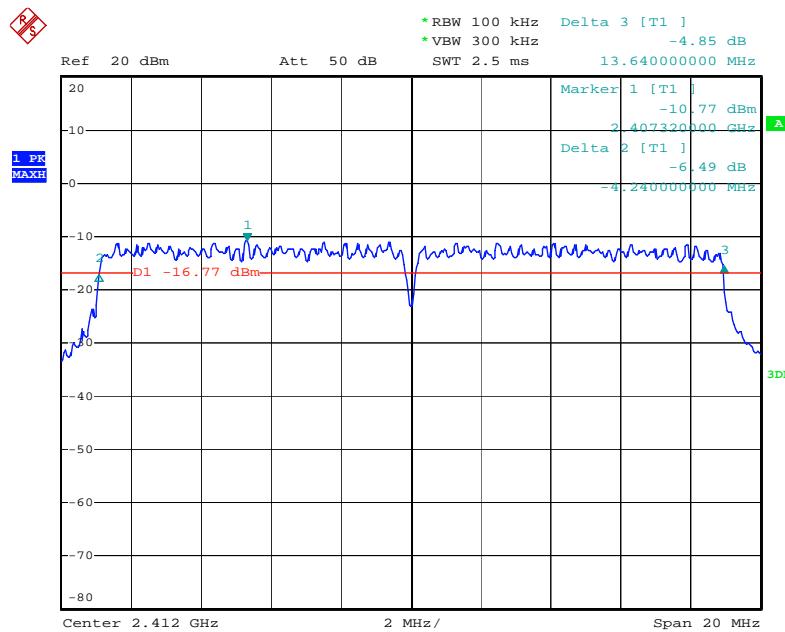
Date: 9.DEC.2013 09:10:50

## 802.11g Channel High 2462MHz



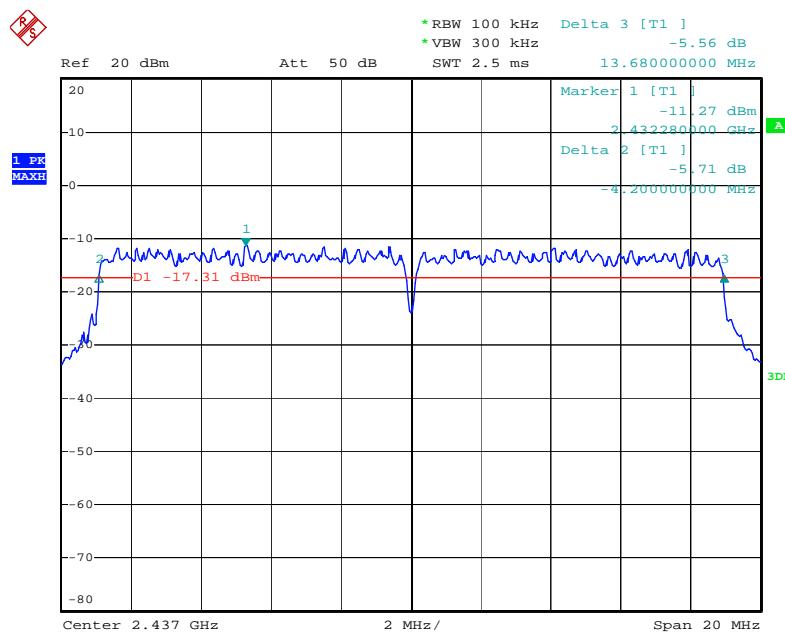
Date: 9.DEC.2013 09:07:17

## 802.11n Channel Low 2412MHz (20MHz)



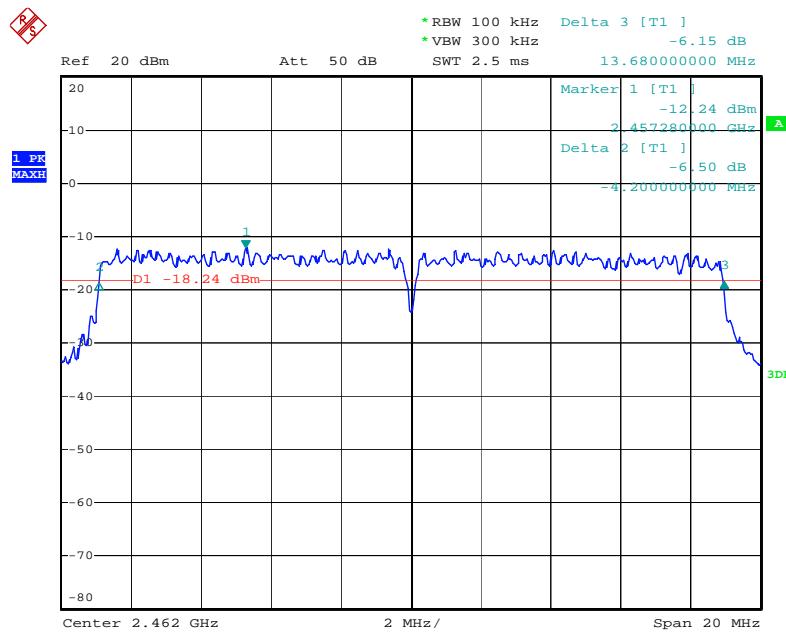
Date: 9.DEC.2013 09:17:54

## 802.11n Channel Middle 2437MHz(20MHz)



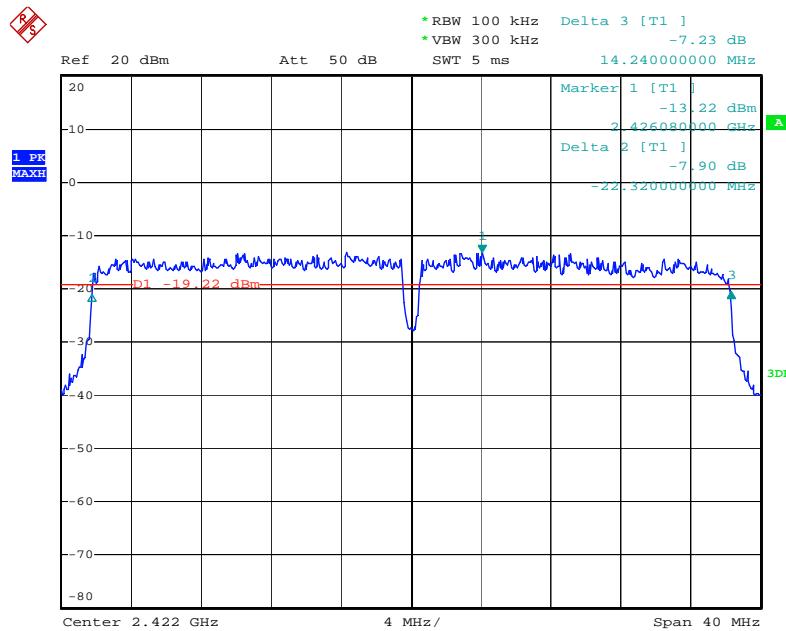
Date: 9.DEC.2013 09:22:30

### 802.11n Channel High 2462MHz(20MHz)



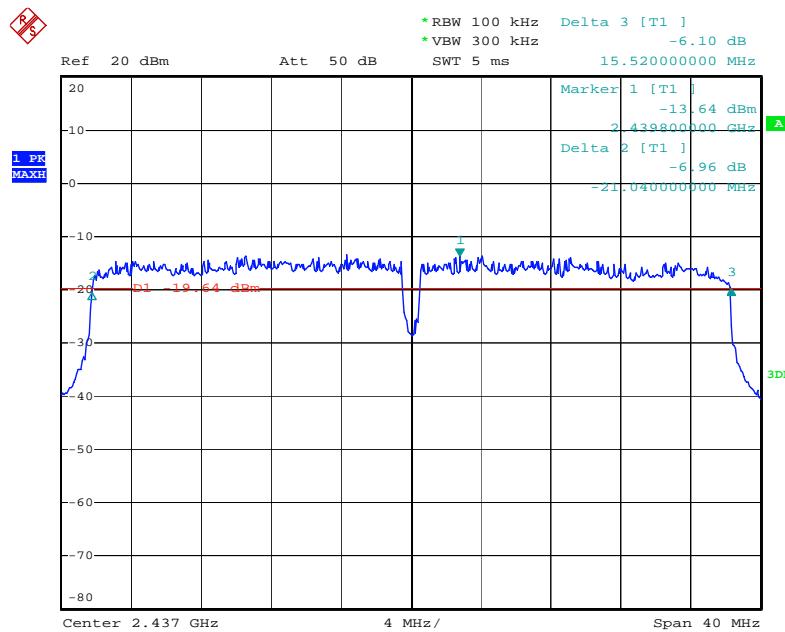
Date: 9.DEC.2013 09:25:37

### 802.11n Channel Low 2422MHz (40MHz)



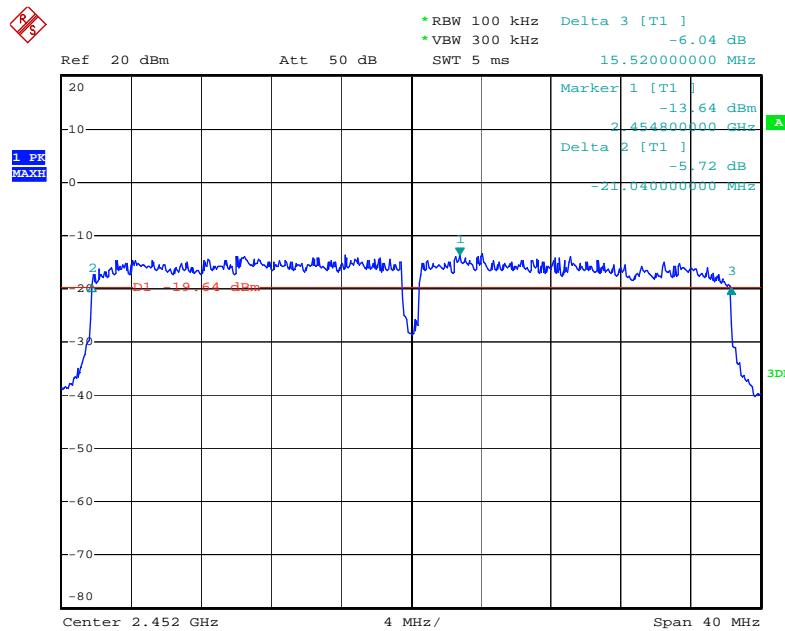
Date: 9.DEC.2013 09:37:15

## 802.11n Channel Middle 2437MHz(40MHz)



Date: 9.DEC.2013 09:33:15

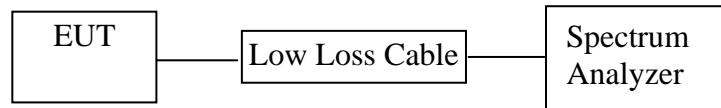
## 802.11n Channel High 2452MHz(40MHz)



Date: 9.DEC.2013 09:29:37

## 7. MAXIMUM PEAK OUTPUT POWER

### 7.1. Block Diagram of Test Setup



### 7.2. 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.

### 7.3. EUT Configuration on Measurement

The 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.

### 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 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

### 7.5. Test Procedure

7.5.1. The EUT was tested according to DTS test procedure of April 09, 2013 KDB558074 D01 DTS Meas Guidance v03 for compliance to FCC 47CFR 15.247 requirements.

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

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

7.5.4. Measurement the maximum peak output power.

## 7.6. Test Result

The test was performed with 802.11b				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	9.11	8.15	30 dBm / 1 W
Middle	2437	8.49	7.06	30 dBm / 1 W
High	2462	8.05	6.38	30 dBm / 1 W

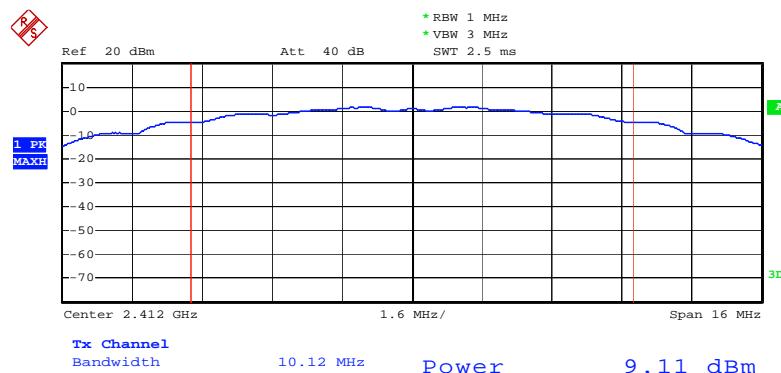
The test was performed with 802.11g				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	7.93	6.21	30 dBm / 1 W
Middle	2437	7.82	6.05	30 dBm / 1 W
High	2462	6.71	4.69	30 dBm / 1 W

The test was performed with 802.11n (20MHz)				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2412	7.70	5.89	30 dBm / 1 W
Middle	2437	7.13	5.16	30 dBm / 1 W
High	2462	6.71	4.69	30 dBm / 1 W

The test was performed with 802.11n (40MHz)				
Channel	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Limits dBm / W
Low	2422	7.44	5.55	30 dBm / 1 W
Middle	2437	6.59	4.56	30 dBm / 1 W
High	2452	6.07	4.05	30 dBm / 1 W

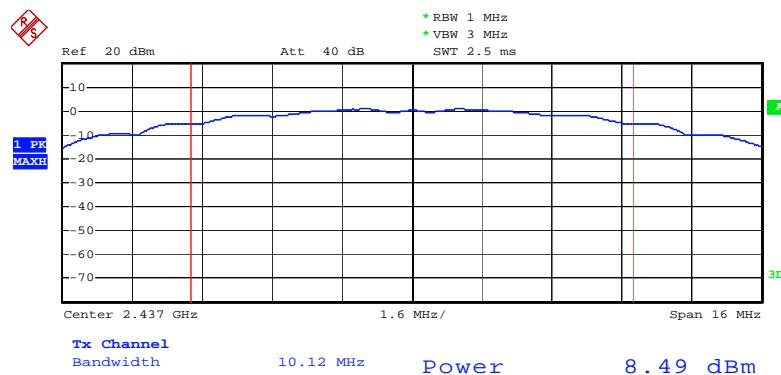
The spectrum analyzer plots are attached as below.

## 802.11b Channel Low 2412MHz



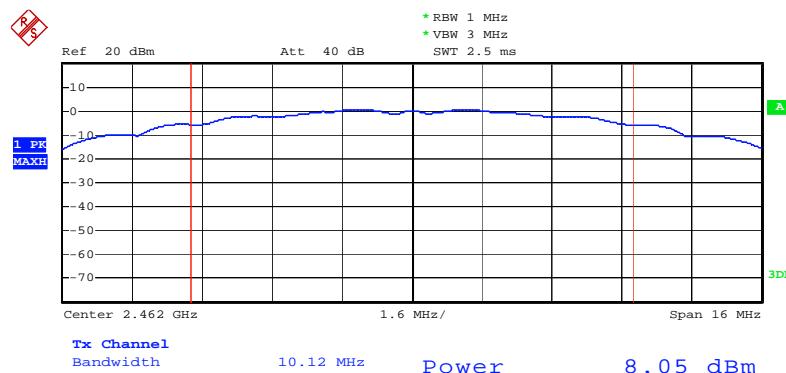
Date: 9.DEC.2013 09:49:49

## 802.11b Channel Middle 2437MHz



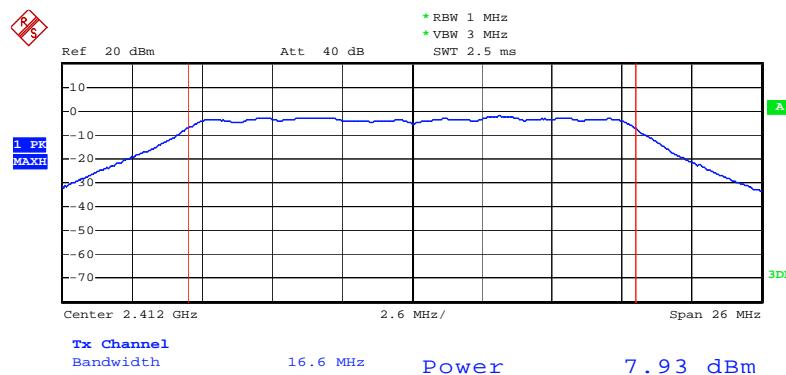
Date: 9.DEC.2013 09:52:07

## 802.11b Channel High 2462MHz



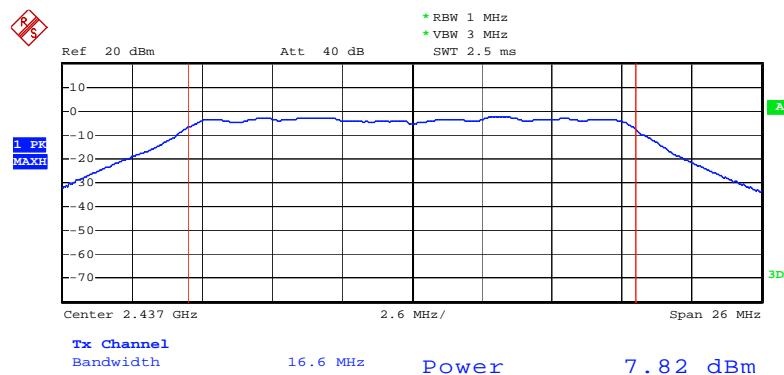
Date: 9.DEC.2013 09:54:14

## 802.11g Channel Low 2412MHz



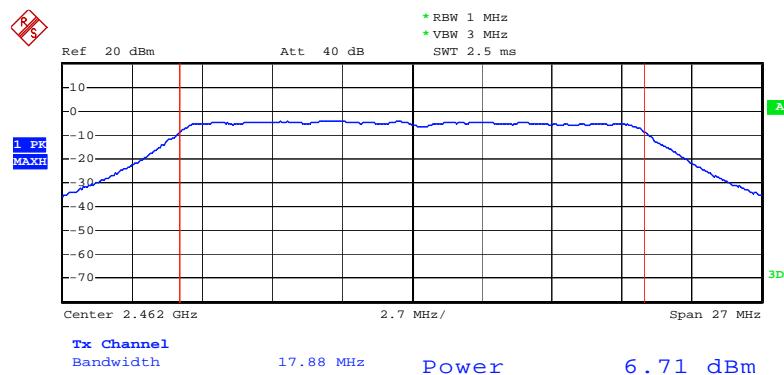
Date: 9.DEC.2013 10:01:52

## 802.11g Channel Middle 2437MHz



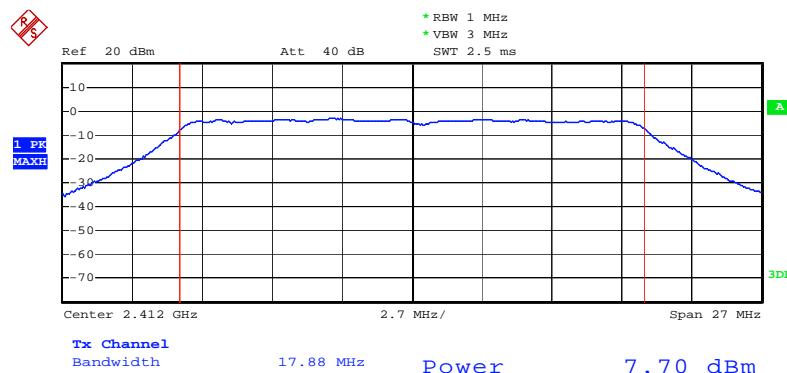
Date: 9.DEC.2013 10:00:05

## 802.11g Channel High 2462MHz



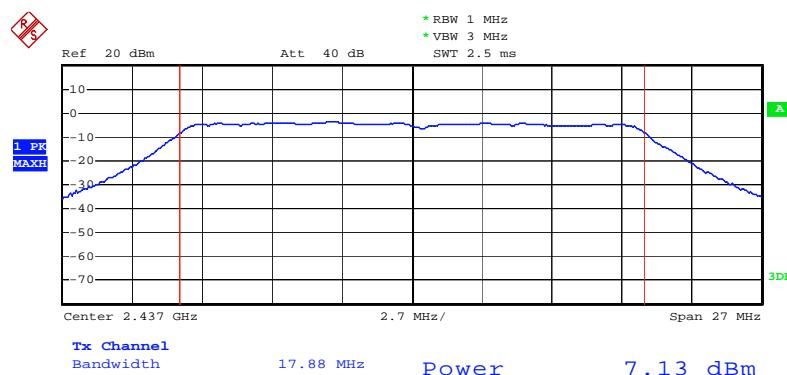
Date: 9.DEC.2013 10:07:41

## 802.11n Channel Low 2412MHz (20MHz)



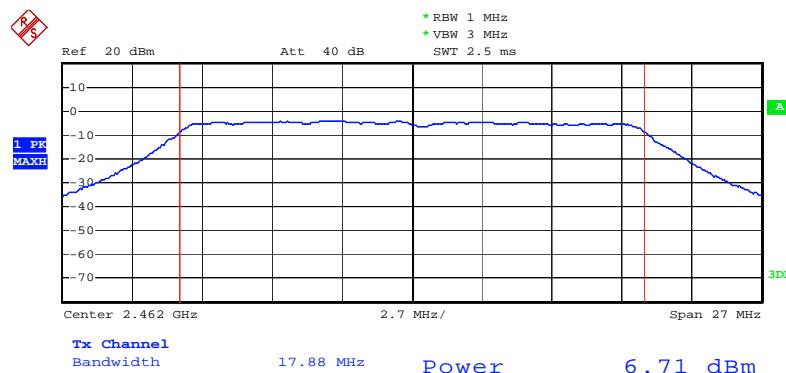
Date: 9.DEC.2013 10:04:19

## 802.11n Channel Middle 2437MHz (20MHz)



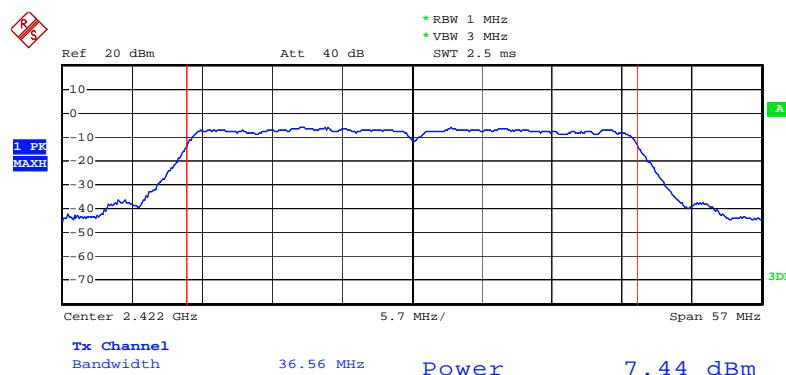
Date: 9.DEC.2013 10:05:54

## 802.11n Channel High 2462MHz (20MHz)



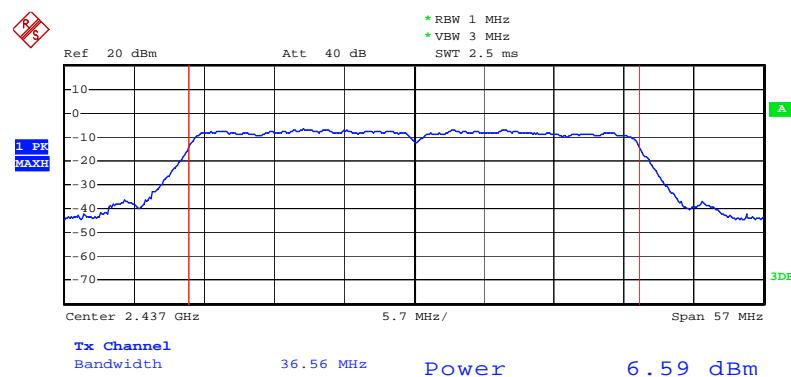
Date: 9.DEC.2013 10:07:41

## 802.11n Channel Low 2422MHz (40MHz)



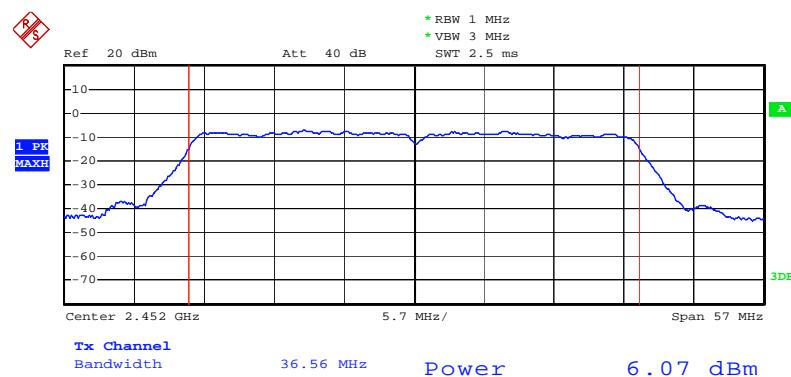
Date: 9.DEC.2013 09:42:31

## 802.11n Channel Middle 2437MHz (40MHz)



Date: 9.DEC.2013 09:45:17

## 802.11n Channel High 2452MHz (40MHz)



Date: 9.DEC.2013 09:46:27

## 8. POWER SPECTRAL DENSITY MEASUREMENT

### 8.1. Block Diagram of Test Setup



### 8.2. 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.

### 8.3. EUT Configuration on Measurement

The 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.

### 8.4. 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 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

### 8.5. Test Procedure

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

8.5.2. Measurement Procedure PKPSD:

This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.

3. Set the RBW  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
4. Set the VBW  $\geq 3 \times \text{RBW}$ .
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

#### 8.5.3. Measurement the maximum power spectral density.

### 8.6. Test Result

The test was performed with 802.11b

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-23.59	8 dBm
Middle	2437	-24.70	8 dBm
High	2462	-25.42	8 dBm

The test was performed with 802.11g

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-26.15	8 dBm
Middle	2437	-26.60	8 dBm
High	2462	-27.66	8 dBm

The test was performed with 802.11n (20MHz)

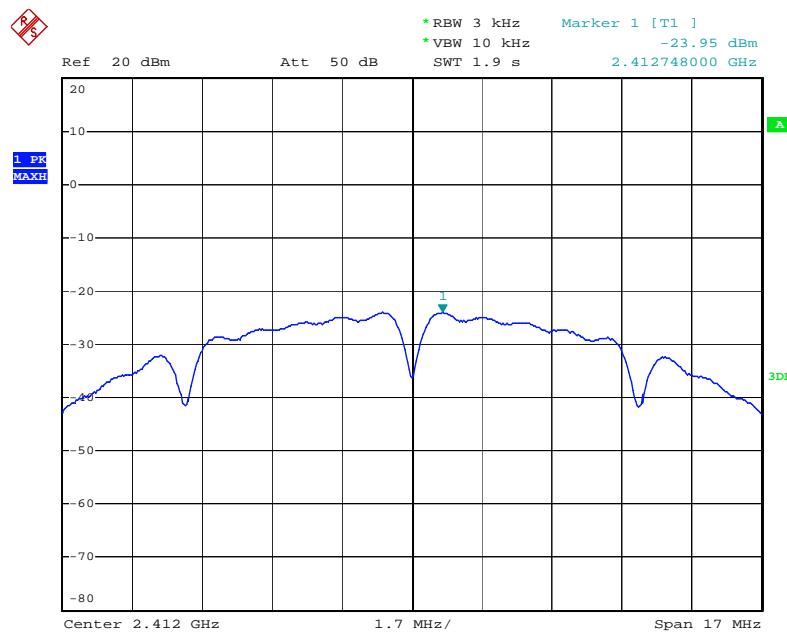
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-26.25	8 dBm
Middle	2437	-27.30	8 dBm
High	2462	-27.74	8 dBm

The test was performed with 802.11n (40MHz)

Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2422	-28.74	8 dBm
Middle	2437	-28.83	8 dBm
High	2452	-29.05	8 dBm

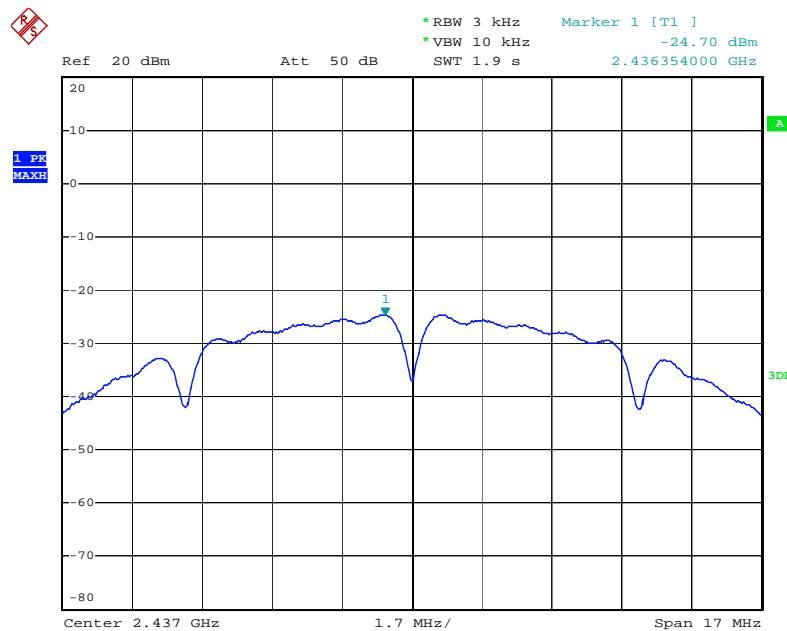
The spectrum analyzer plots are attached as below.

### 802.11b Channel Low 2412MHz



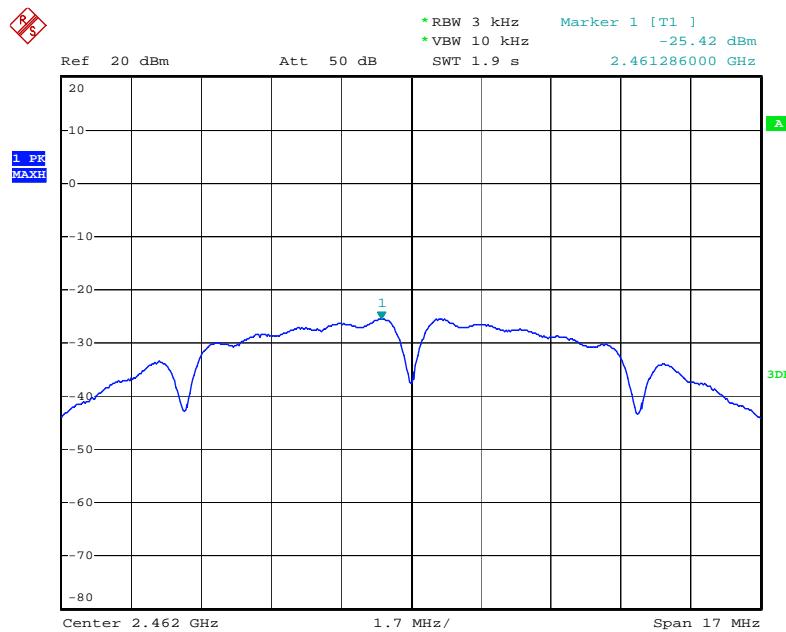
Date: 9.DEC.2013 10:21:55

### 802.11b Channel Middle 2437MHz



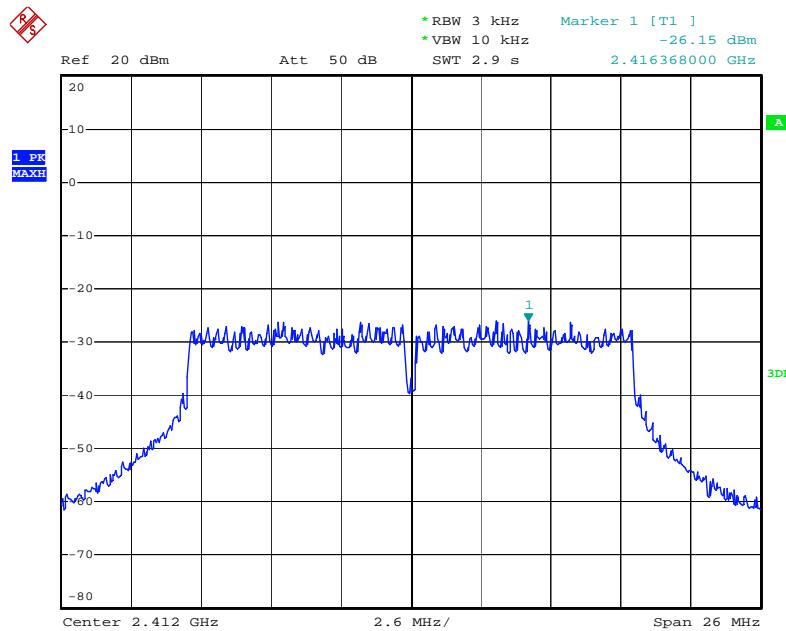
Date: 9.DEC.2013 10:22:59

## 802.11b Channel High 2462MHz



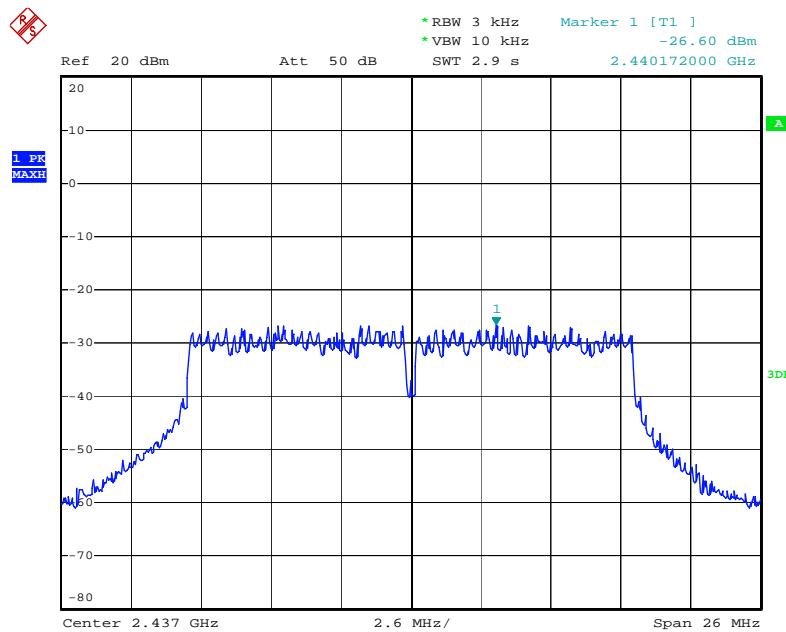
Date: 9.DEC.2013 10:24:43

## 802.11g Channel Low 2412MHz



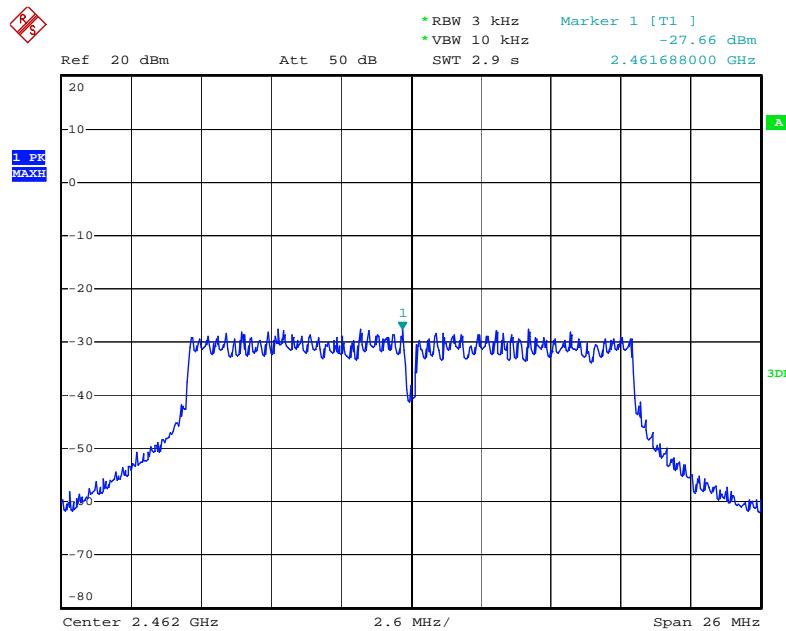
Date: 9.DEC.2013 10:29:01

## 802.11g Channel Middle 2437MHz



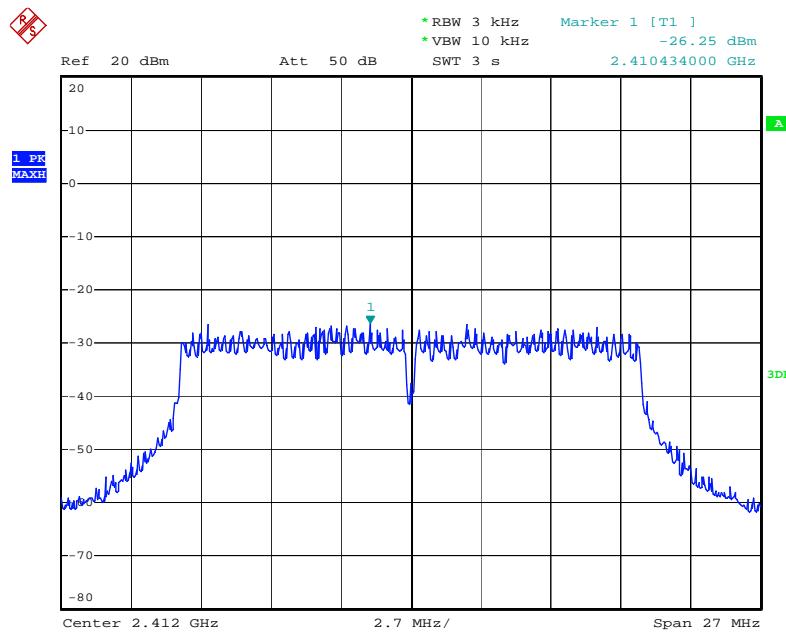
Date: 9.DEC.2013 10:27:39

## 802.11g Channel High 2462MHz



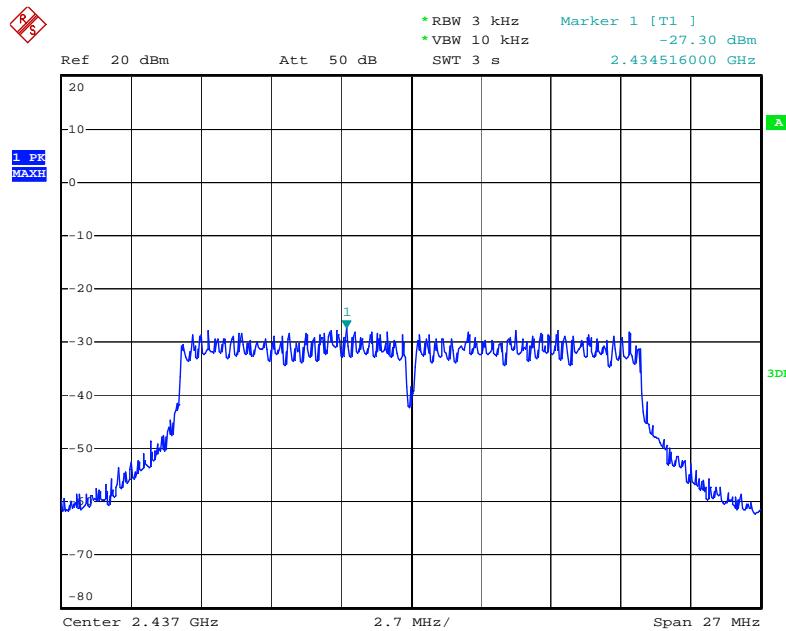
Date: 9.DEC.2013 10:26:26

## 802.11n Channel Low 2412MHz (20MHz)



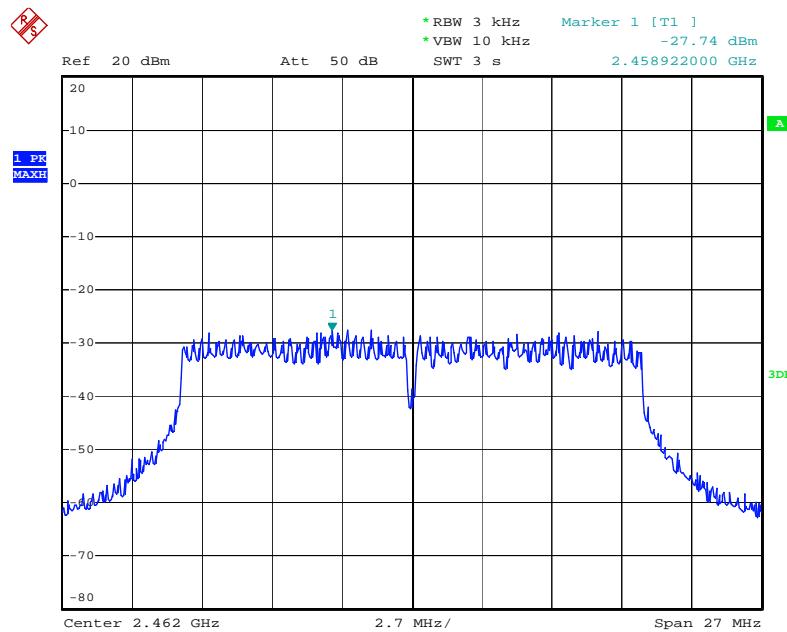
Date: 9.DEC.2013 10:19:34

## 802.11n Channel Middle 2437MHz (20MHz)



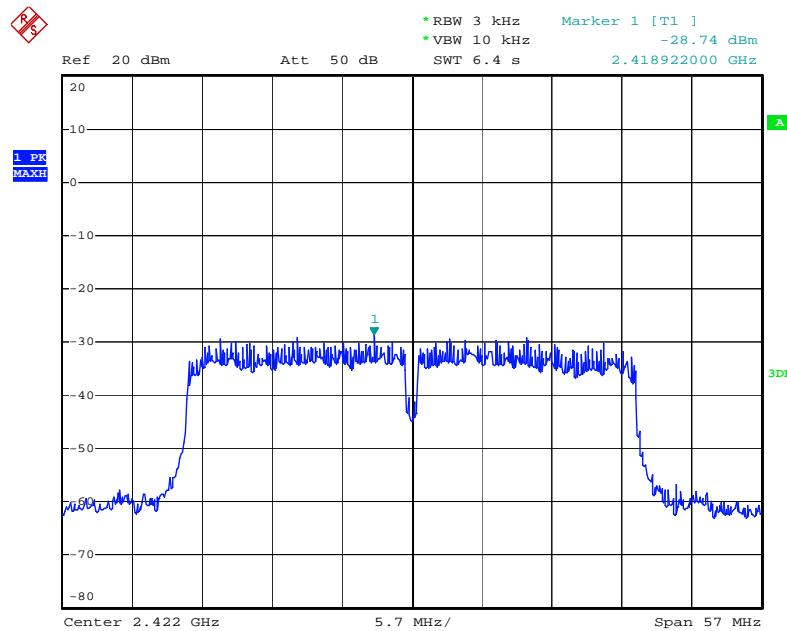
Date: 9.DEC.2013 10:18:02

## 802.11n Channel High 2462MHz(20MHz)



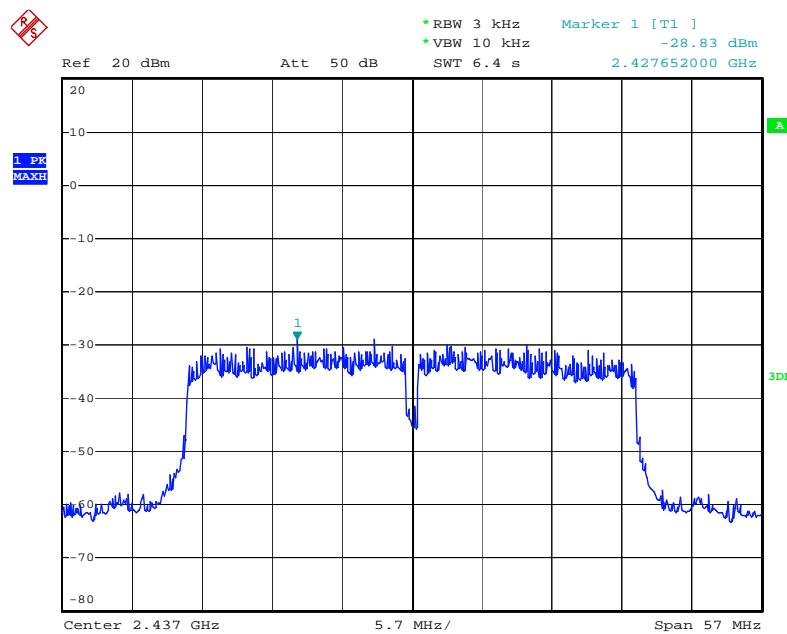
Date: 9.DEC.2013 10:16:21

## 802.11n Channel Low 2422MHz (40MHz)



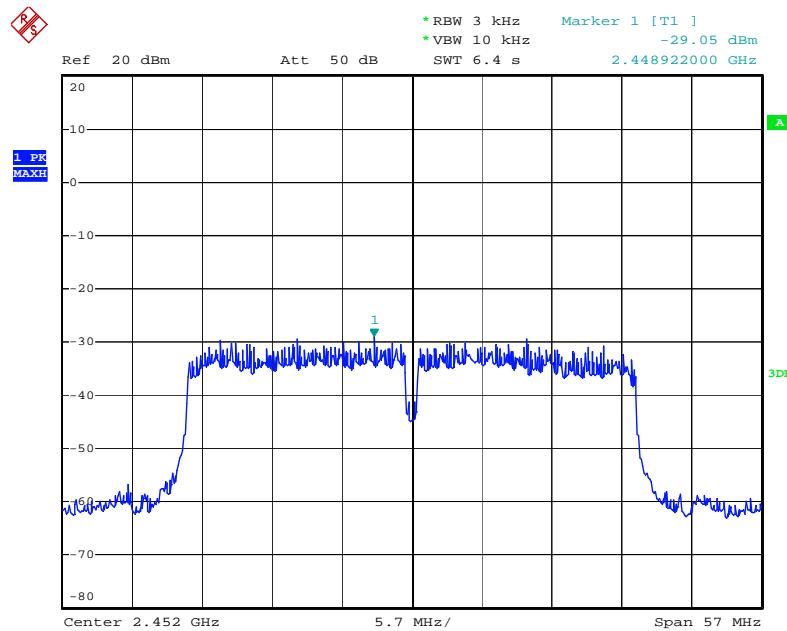
Date: 9.DEC.2013 10:31:13

## 802.11n Channel Middle 2437MHz(40MHz)



Date: 9.DEC.2013 10:32:47

## 802.11n Channel High 2452MHz(40MHz)



Date: 9.DEC.2013 10:34:27

## 9. BAND EDGE COMPLIANCE TEST

### 9.1. Block Diagram of Test Setup



### 9.2. 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).

### 9.3. EUT Configuration on Measurement

The 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.

### 9.4. Operating Condition of EUT

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

9.4.2. Turn on the power of all equipment.

9.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz MHz. We select 2412MHz, 2462MHz and 2422MHz, 2452MHz TX frequency to transmit.

### 9.5. Test Procedure

Conducted Band Edge:

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

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

Radiate Band Edge:

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

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

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

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

9.5.7. RBW=1MHz, VBW=1MHz

9.5.8. The band edges were measured and recorded.

## 9.6. Test Result

The test was performed with 802.11b

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	44.61	> 20dBc
2462	52.87	> 20dBc

The test was performed with 802.11g

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	34.95	> 20dBc
2462	40.66	> 20dBc

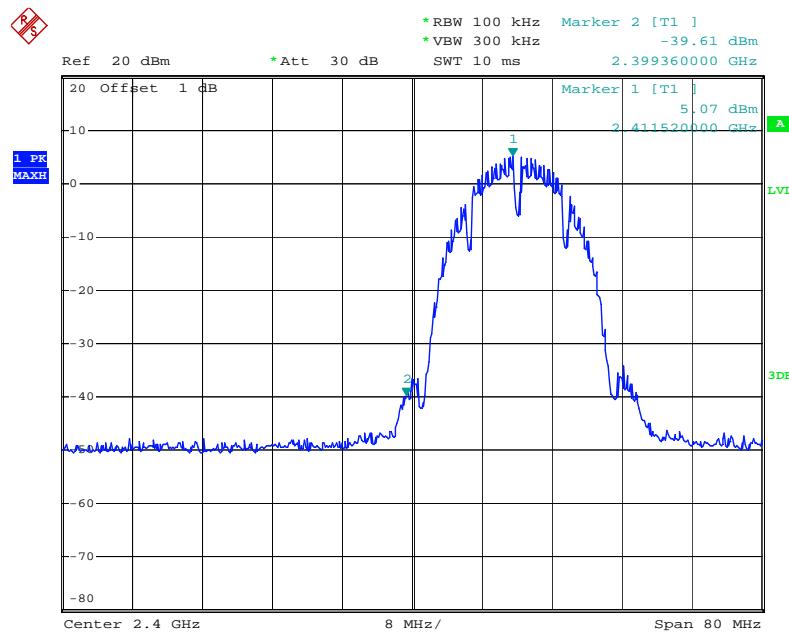
The test was performed with 802.11n (20MHz)

Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	36.25	> 20dBc
2462	41.87	> 20dBc

The test was performed with 802.11n (40MHz)

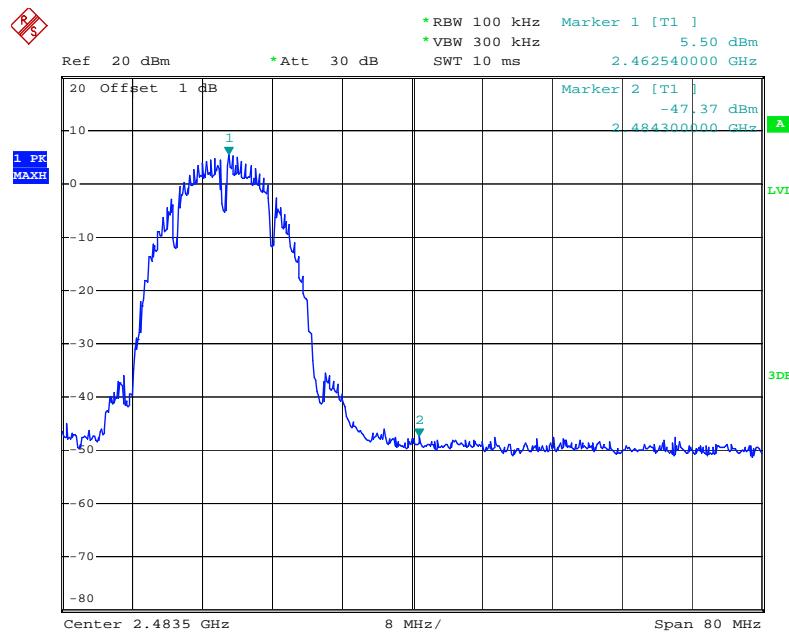
Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2422	31.15	> 20dBc
2452	37.70	> 20dBc

## 802.11b Channel Low 2412MHz



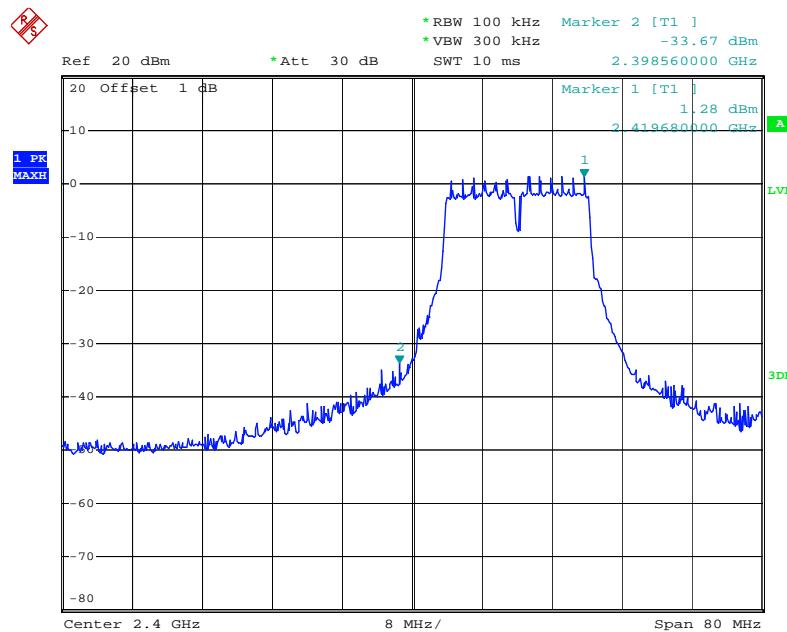
Date: 25.JAN.2014 11:30:33

## 802.11b Channel High 2462MHz



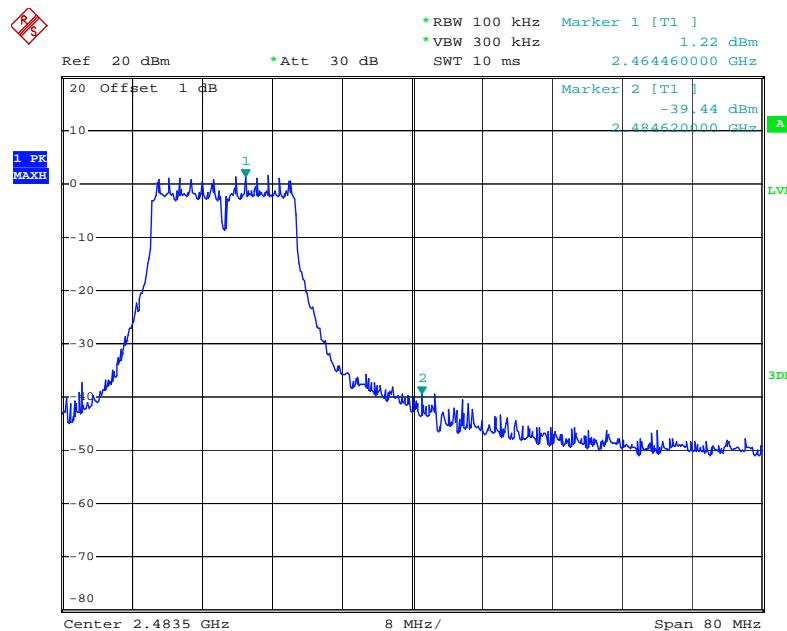
Date: 25.JAN.2014 11:31:15

## 802.11g Channel Low 2412MHz



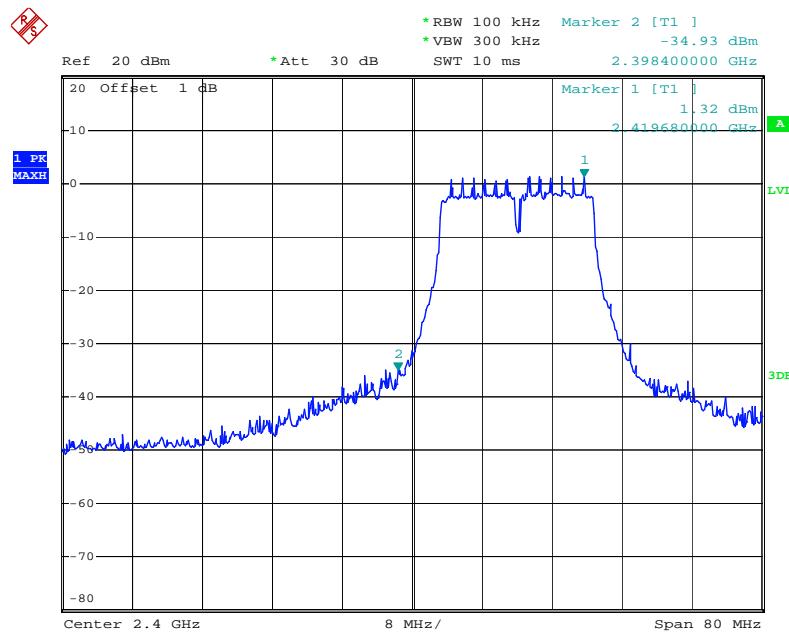
Date: 25.JAN.2014 11:33:12

## 802.11g Channel High 2462MHz



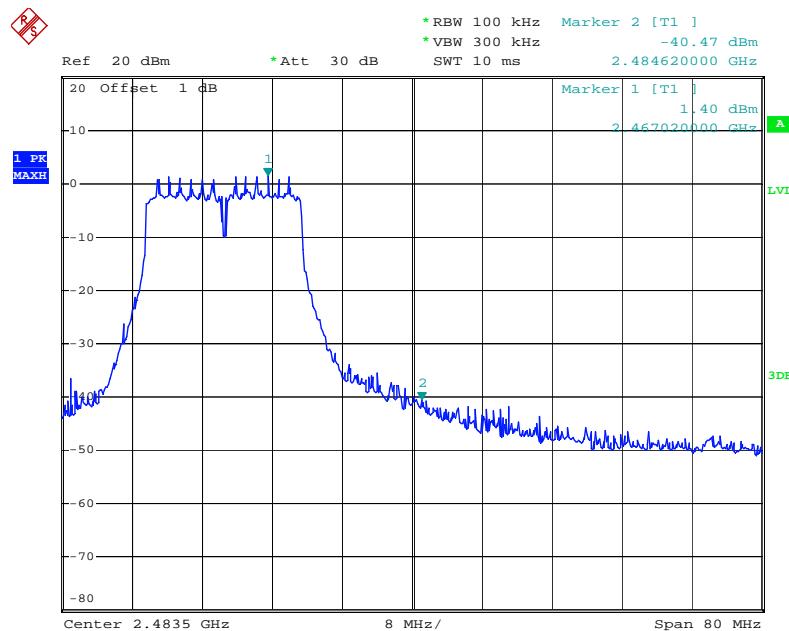
Date: 25.JAN.2014 11:32:11

## 802.11n Channel Low 2412MHz (20MHz)



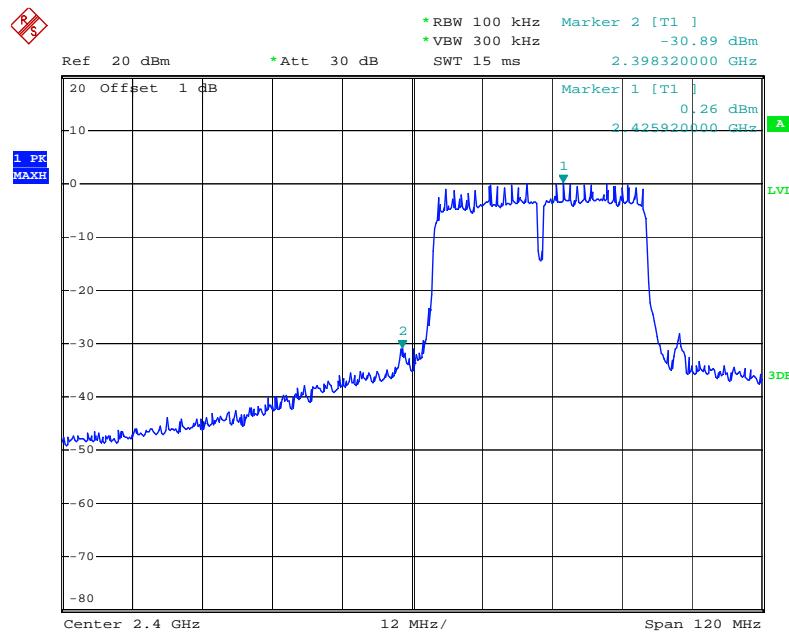
Date: 25.JAN.2014 11:34:58

## 802.11n Channel High 2462MHz (20MHz)



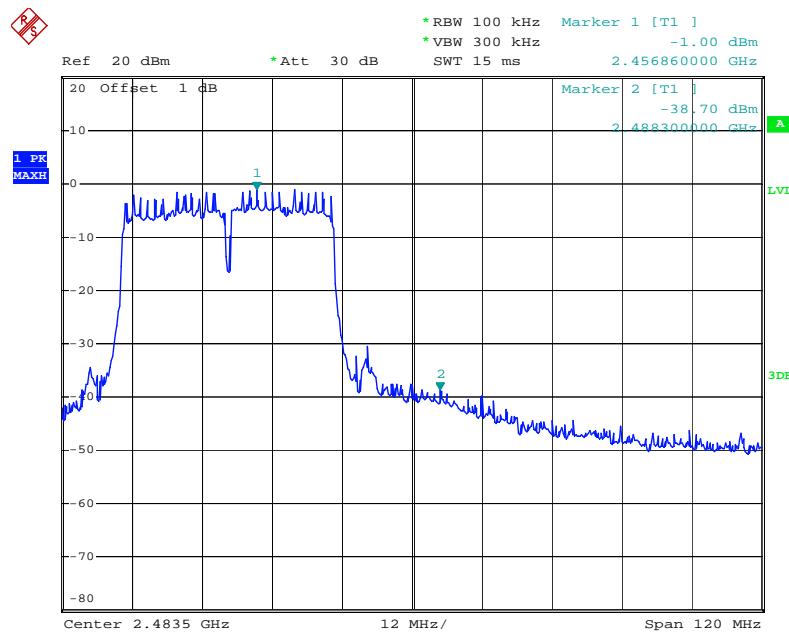
Date: 25.JAN.2014 11:35:41

## 802.11n Channel Low 2422MHz (40MHz)



Date: 25.JAN.2014 11:28:23

## 802.11n Channel High 2452MHz (40MHz)



Date: 25.JAN.2014 11:29:10

## Radiated Band Edge Result

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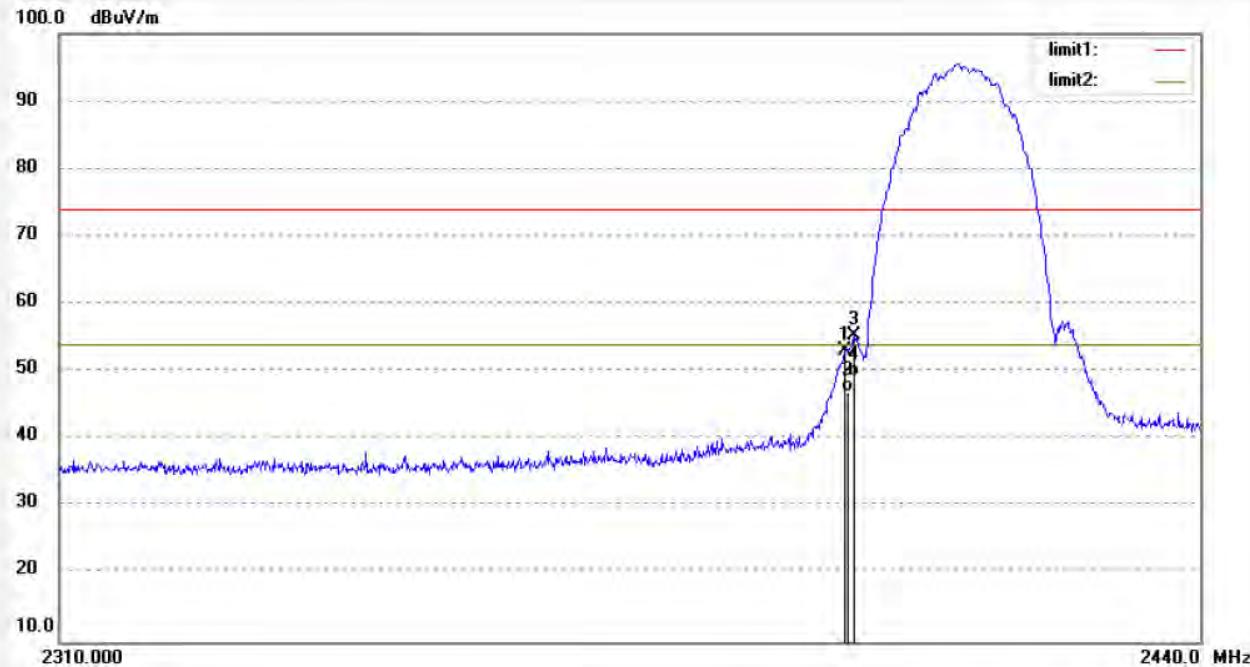
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	alen #2924	Polarization:	Horizontal
Standard:	FCC PK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	13/12/11/
Temp.( C)/Hum.(%)	25 C / 55 %	Time:	13:59:39
EUT:	Novo10 Hero II User Manual	Engineer Signature:	
Mode:	TX 2412MHz(802.11b)	Distance:	3m
Model:	Novo10 Hero II		
Manufacturer:	Ainol		
Note:	Report No:ATE20132549		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2398.920	59.81	-6.76	53.05	74.00	-20.95	peak			
2	2398.920	53.78	-6.76	47.02	54.00	-6.98	AVG			
3	2399.960	62.04	-6.76	55.28	74.00	-18.72	peak			
4	2399.960	56.01	-6.76	49.25	54.00	-4.75	AVG			



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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #2923

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/58/59

EUT: Novo10 Hero II User Manual

Engineer Signature:

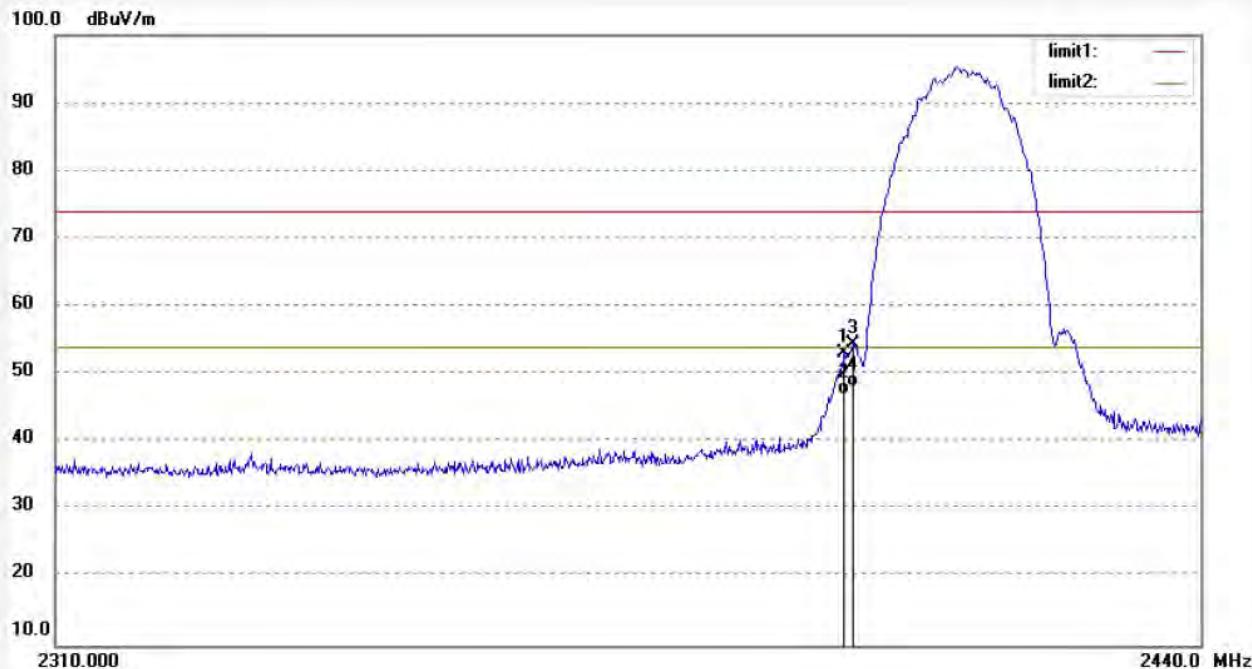
Mode: TX 2412MHz(802.11b)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2398.920	59.78	-6.76	53.02	74.00	-20.98	peak			
2	2398.920	53.69	-6.76	46.93	54.00	-7.07	AVG			
3	2399.960	61.09	-6.76	54.33	74.00	-19.67	peak			
4	2399.960	54.87	-6.76	48.11	54.00	-5.89	AVG			



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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #2925

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 14/01/18

EUT: Novo10 Hero II User Manual

Engineer Signature:

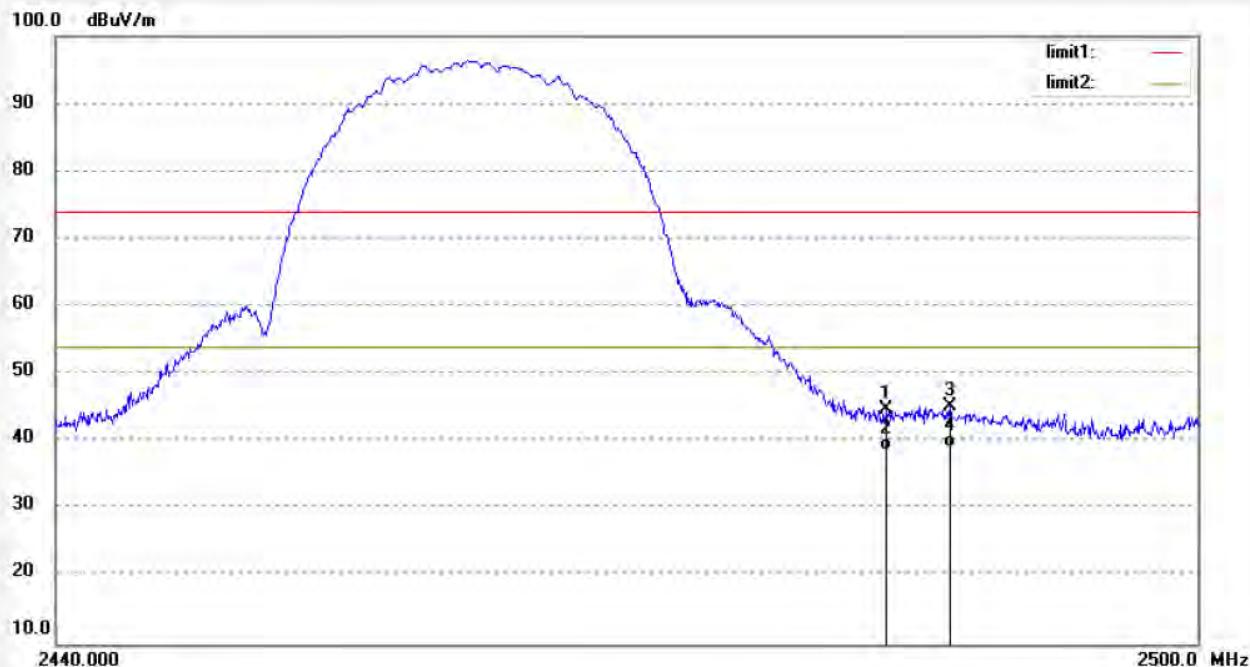
Mode: TX 2462MHz(802.11b)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	51.20	-6.54	44.66	74.00	-29.34	peak			
2	2483.500	45.12	-6.54	38.58	54.00	-15.42	AVG			
3	2486.860	51.78	-6.53	45.25	74.00	-28.75	peak			
4	2486.860	45.57	-6.53	39.04	54.00	-14.96	AVG			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2926

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 14/01/55

EUT: Novo10 Hero II User Manual

Engineer Signature:

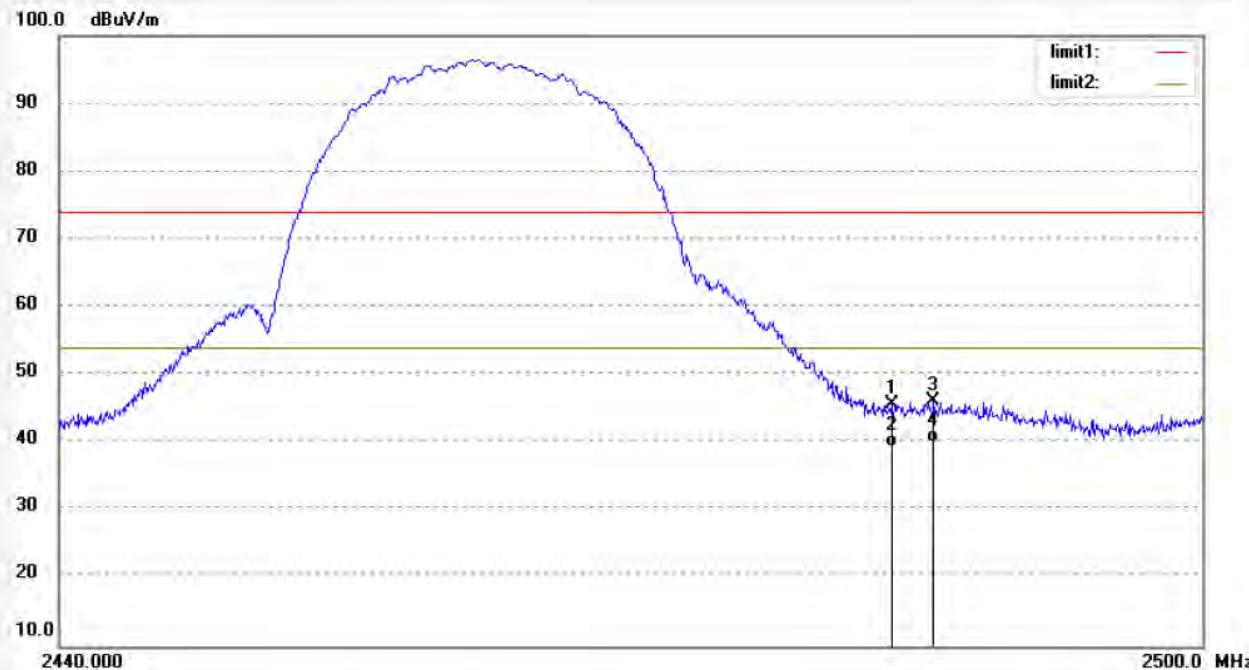
Mode: TX 2462MHz(802.11b)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.560	52.17	-6.54	45.63	74.00	-28.37	peak			
2	2483.560	46.01	-6.54	39.47	54.00	-14.53	AVG			
3	2485.780	52.55	-6.54	46.01	74.00	-27.99	peak			
4	2485.780	46.47	-6.54	39.93	54.00	-14.07	AVG			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2929

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 14/05/36

EUT: Novo10 Hero II User Manual

Engineer Signature:

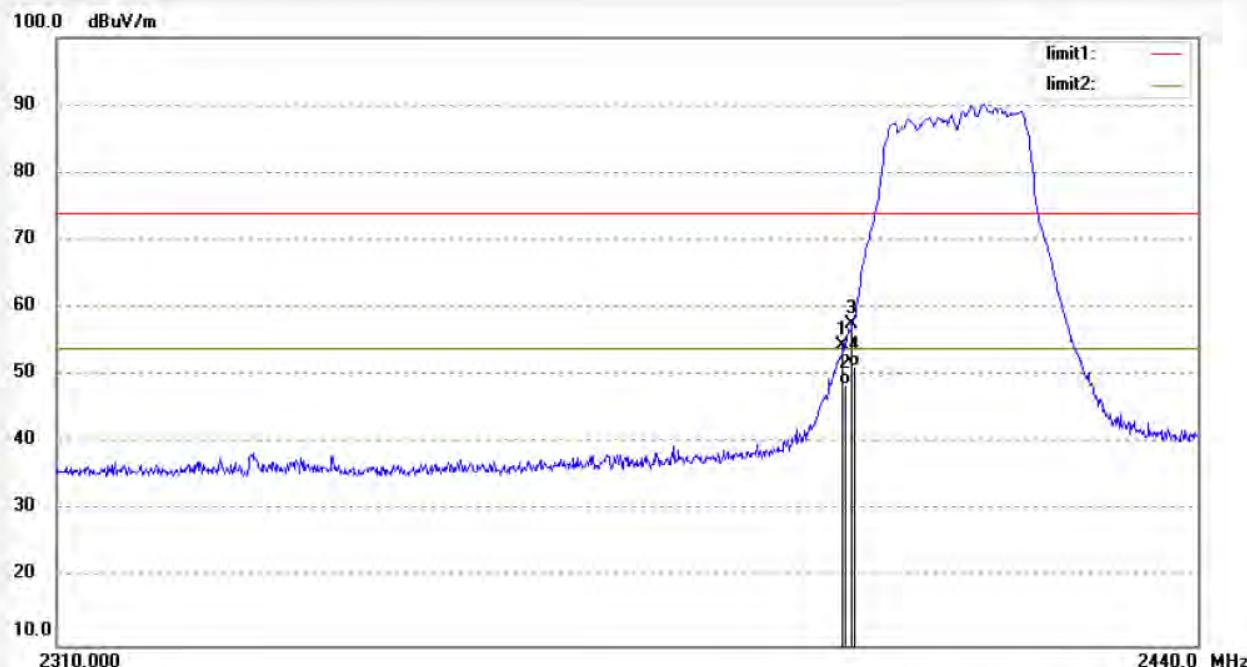
Mode: TX 2412MHz(802.11g)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2398.920	61.25	-6.76	54.49	74.00	-19.51	peak			
2	2398.920	55.32	-6.76	48.56	54.00	-5.44	AVG			
3	2399.960	64.24	-6.76	57.48	74.00	-16.52	peak			
4	2399.960	58.01	-6.76	51.25	54.00	-2.75	AVG			



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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #2930

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 14/06/16

EUT: Novo10 Hero II User Manual

Engineer Signature:

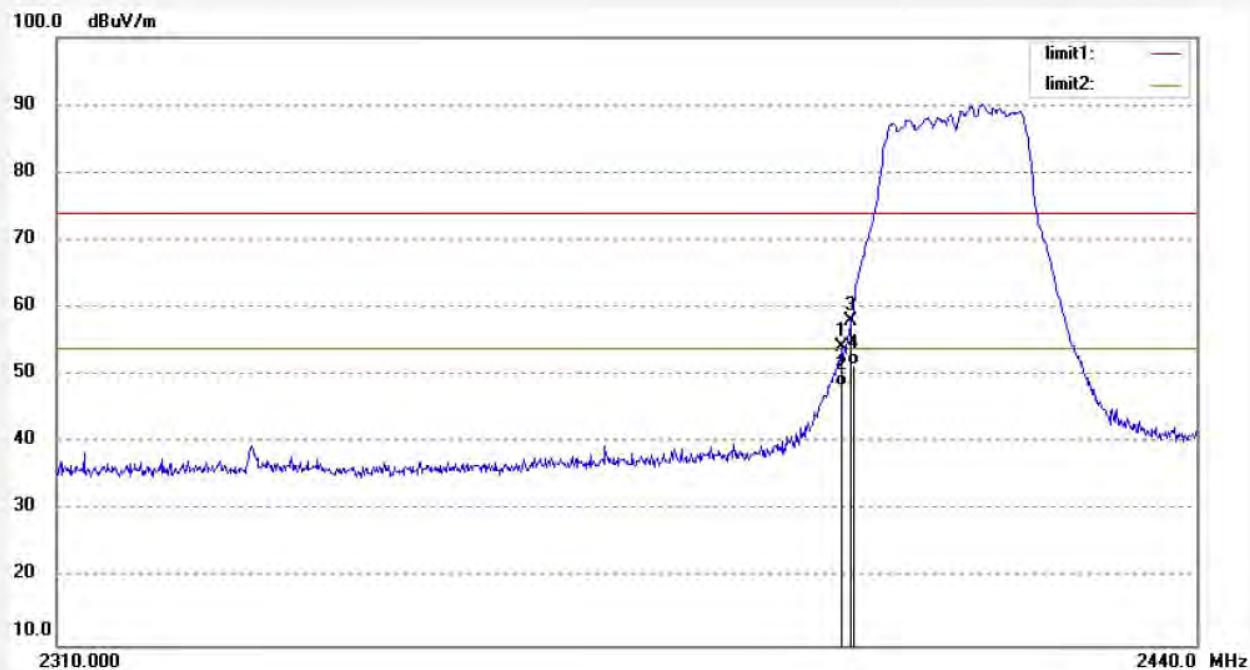
Mode: TX 2412MHz(802.11g)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2398.790	61.05	-6.76	54.29	74.00	-19.71	peak			
2	2398.790	55.07	-6.76	48.31	54.00	-5.69	AVG			
3	2399.960	64.88	-6.76	58.12	74.00	-15.88	peak			
4	2399.960	58.36	-6.76	51.60	54.00	-2.40	AVG			

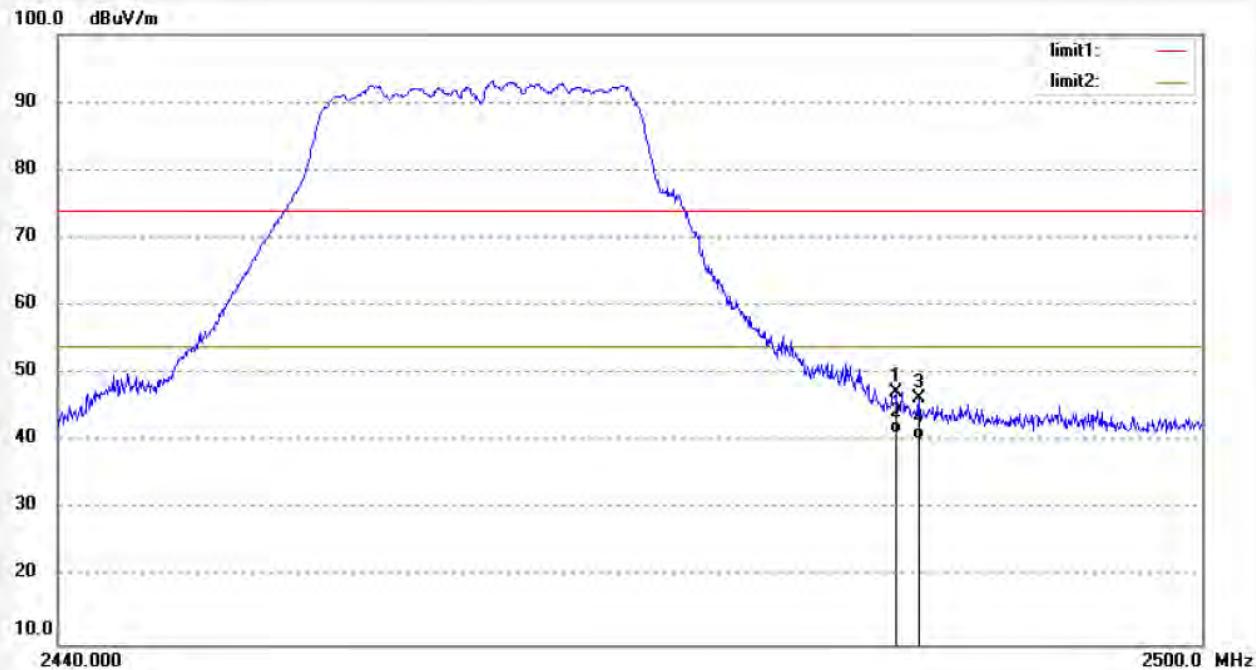


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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #2928	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/11/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 14/04/03
EUT: Novo10 Hero II User Manual	Engineer Signature:
Mode: TX 2462MHz(802.11g)	Distance: 3m
Model: Novo10 Hero II	
Manufacturer: Ainol	
Note: Report No:ATE20132549	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.800	53.77	-6.54	47.23	74.00	-26.77	peak			
2	2483.800	47.68	-6.54	41.14	54.00	-12.86	AVG			
3	2485.000	52.81	-6.54	46.27	74.00	-27.73	peak			
4	2485.000	46.74	-6.54	40.20	54.00	-13.80	AVG			



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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #2927

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 14/03/26

EUT: Novo10 Hero II User Manual

Engineer Signature:

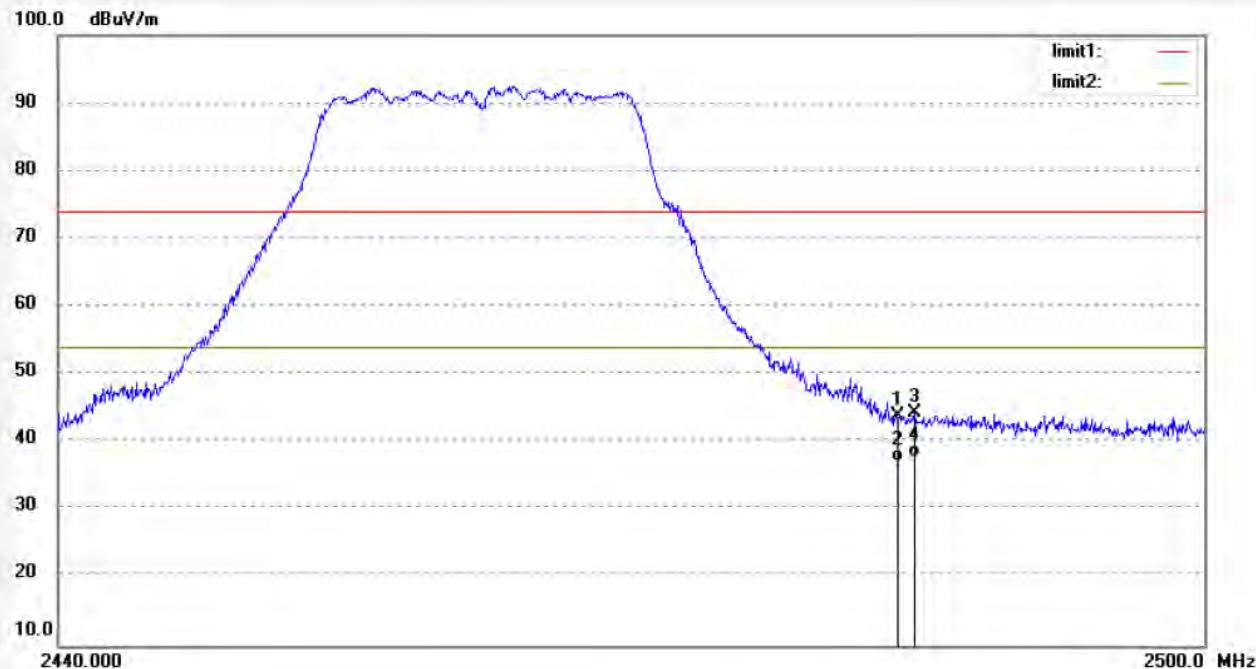
Mode: TX 2462MHz(802.11g)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.740	50.38	-6.54	43.84	74.00	-30.16	peak			
2	2483.740	43.74	-6.54	37.20	54.00	-16.80	AVG			
3	2484.700	50.77	-6.54	44.23	74.00	-29.77	peak			
4	2484.700	44.28	-6.54	37.74	54.00	-16.26	AVG			

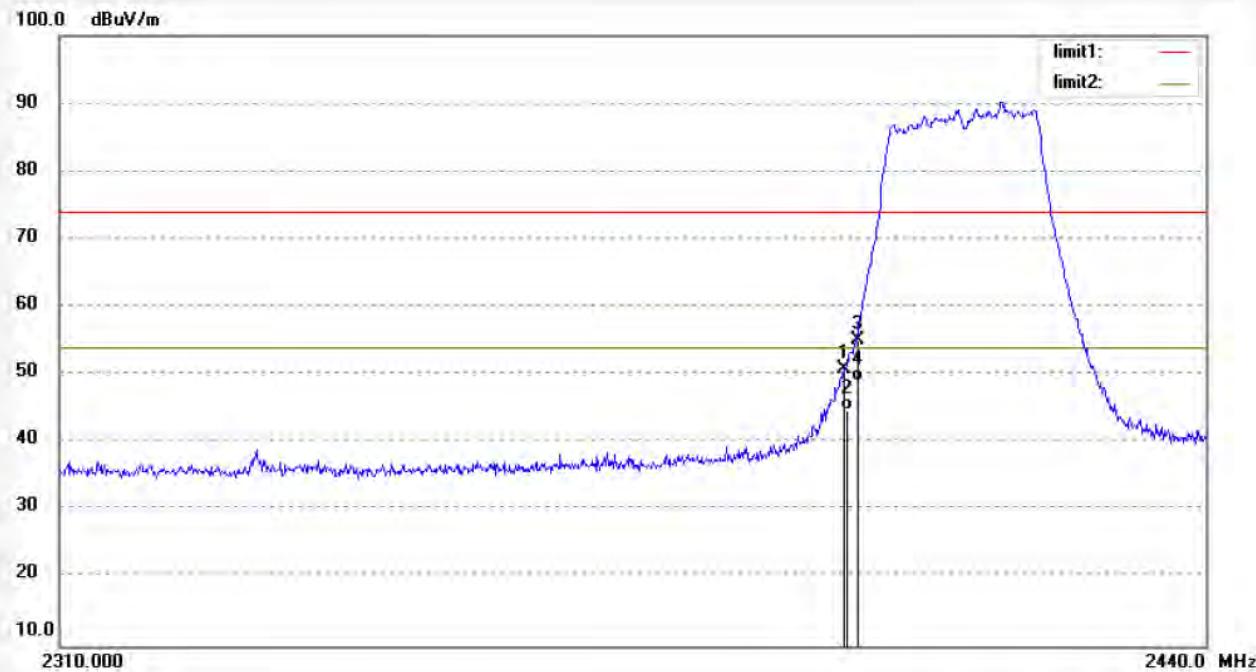


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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.:	alen #2932	Polarization:	Horizontal
Standard:	FCC PK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	13/12/11/
Temp.( C)/Hum.(%)	25 C / 55 %	Time:	14/08/26
EUT:	Novo10 Hero II User Manual	Engineer Signature:	
Mode:	TX 2412MHz(802.11n20)	Distance:	3m
Model:	Novo10 Hero II		
Manufacturer:	Ainol		
Note:	Report No:ATE20132549		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2398.400	57.64	-6.75	50.89	74.00	-23.11	peak			
2	2398.400	51.57	-6.75	44.82	54.00	-9.18	AVG			
3	2399.700	61.77	-6.76	55.01	74.00	-18.99	peak			
4	2399.700	55.81	-6.76	49.05	54.00	-4.95	AVG			

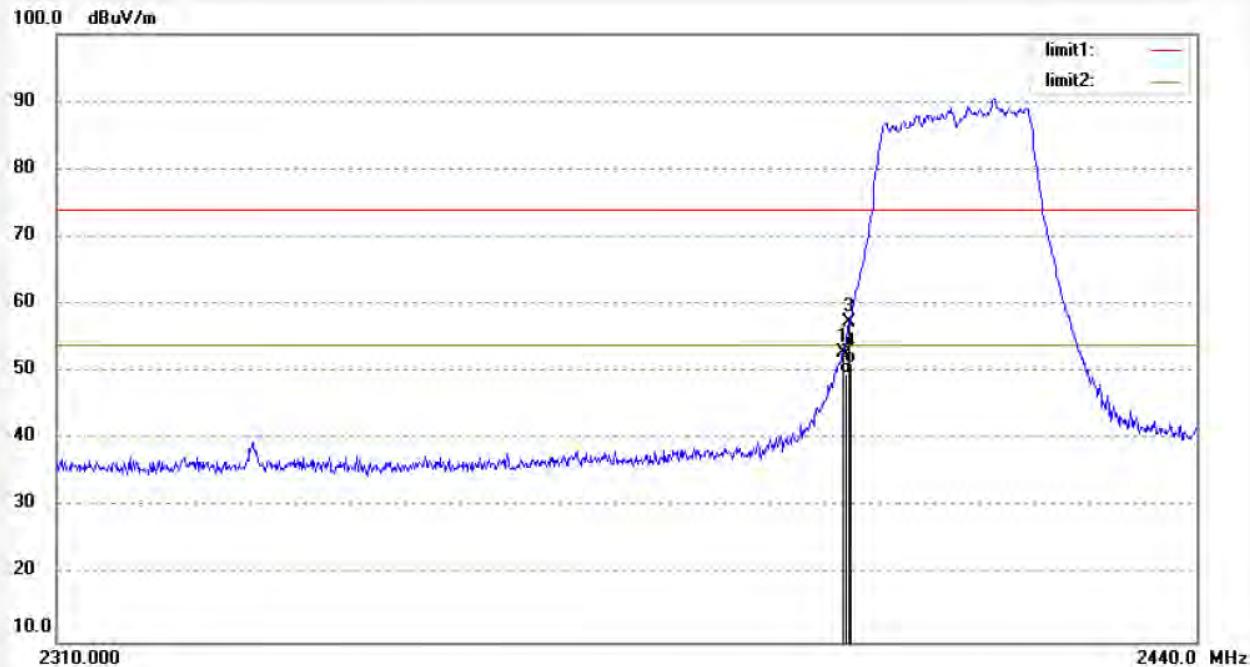


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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.:	alen #2931	Polarization:	Vertical
Standard:	FCC PK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	13/12/11/
Temp.( C)/Hum.(%)	25 C / 55 %	Time:	14/07/47
EUT:	Novo10 Hero II User Manual	Engineer Signature:	
Mode:	TX 2412MHz(802.11n20)	Distance:	3m
Model:	Novo10 Hero II		
Manufacturer:	Ainol		
Note:	Report No:ATE20132549		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2399.050	59.73	-6.76	52.97	74.00	-21.03	peak			
2	2399.050	56.38	-6.76	49.62	54.00	-4.38	AVG			
3	2399.700	64.11	-6.76	57.35	74.00	-16.65	peak			
4	2399.700	58.04	-6.76	51.28	54.00	-2.72	AVG			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2933

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 14/10/04

EUT: Novo10 Hero II User Manual

Engineer Signature:

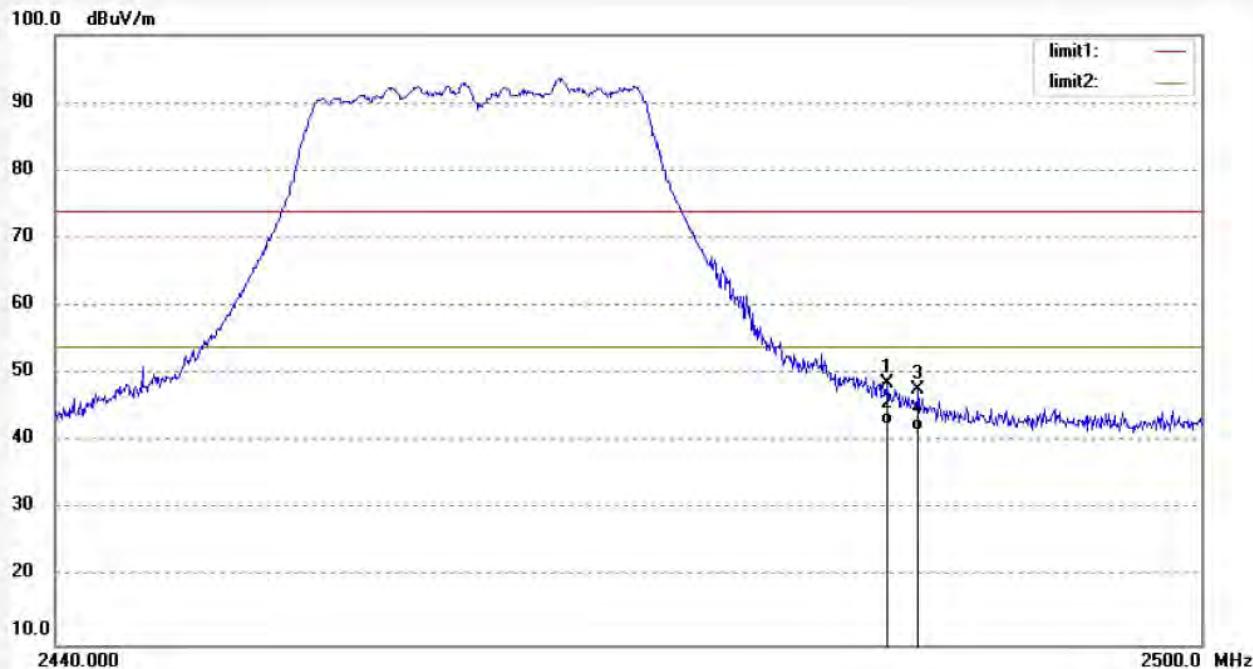
Mode: TX 2462MHz(802.11n20)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.440	55.08	-6.54	48.54	74.00	-25.46	peak			
2	2483.440	49.02	-6.54	42.48	54.00	-11.52	AVG			
3	2485.060	54.15	-6.54	47.61	74.00	-26.39	peak			
4	2485.060	48.13	-6.54	41.59	54.00	-12.41	AVG			

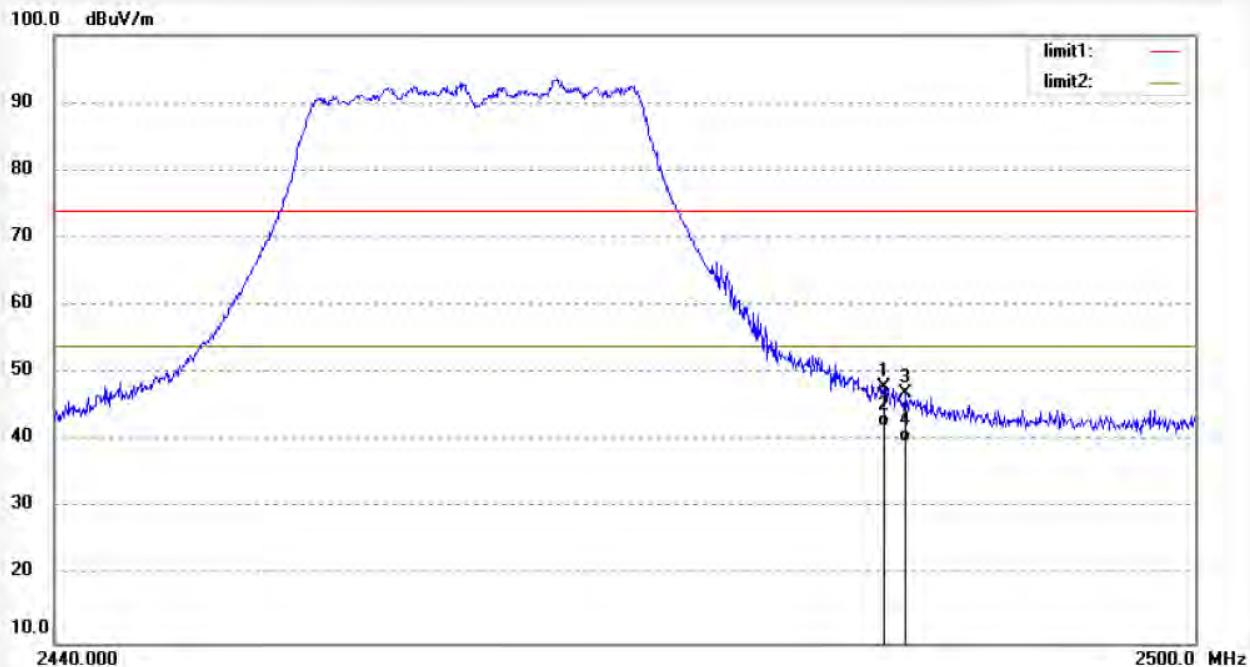


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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #2934	Polarization: Vertical
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/11
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 14/10/44
EUT: Novo10 Hero II User Manual	Engineer Signature:
Mode: TX 2462MHz(802.11n20)	Distance: 3m
Model: Novo10 Hero II	
Manufacturer: Ainol	
Note: Report No:ATE20132549	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	54.54	-6.54	48.00	74.00	-26.00	peak			
2	2483.500	48.57	-6.54	42.03	54.00	-11.97	AVG			
3	2484.640	53.48	-6.54	46.94	74.00	-27.06	peak			
4	2484.640	46.42	-6.54	39.88	54.00	-14.12	AVG			

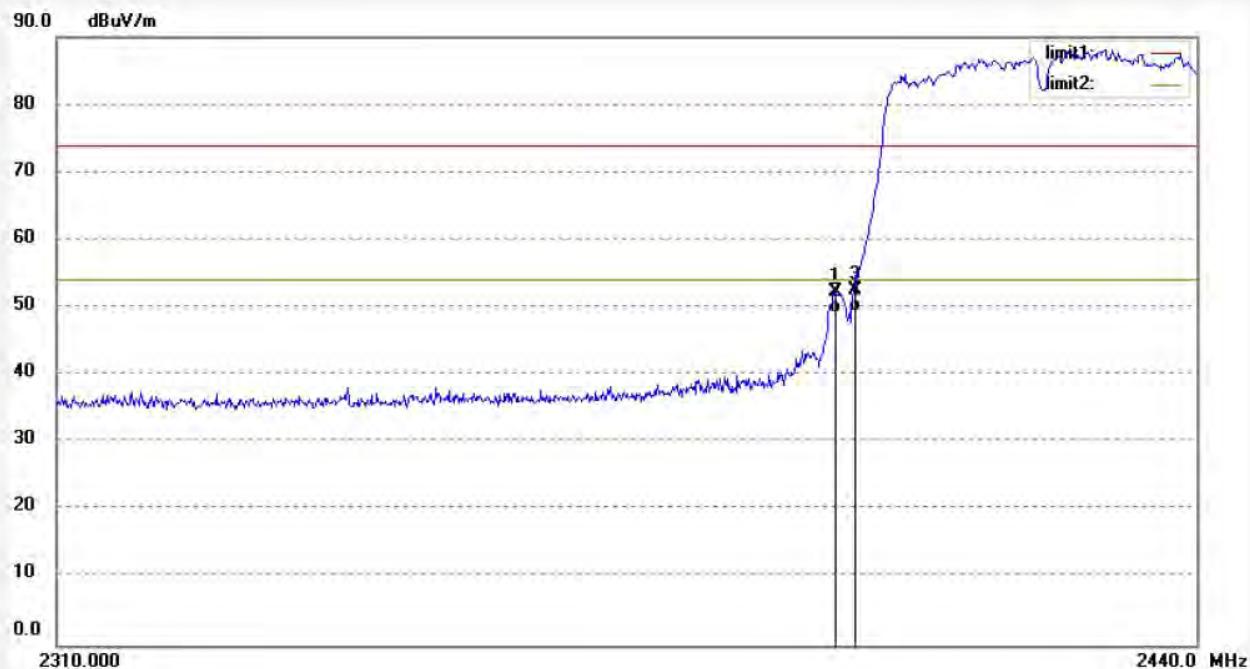


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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #2937	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/11/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 14/14/30
EUT: Novo10 Hero II User Manual	Engineer Signature:
Mode: TX 2422MHz(802.11n40)	Distance: 3m
Model: Novo10 Hero II	
Manufacturer: Ainol	
Note: Report No:ATE20132549	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2398.140	59.13	-6.75	52.38	74.00	-21.62	peak			
2	2398.140	56.01	-6.75	49.26	54.00	-4.74	AVG			
3	2400.220	59.35	-6.76	52.59	74.00	-21.41	peak			
4	2400.220	56.14	-6.76	49.38	54.00	-4.62	AVG			



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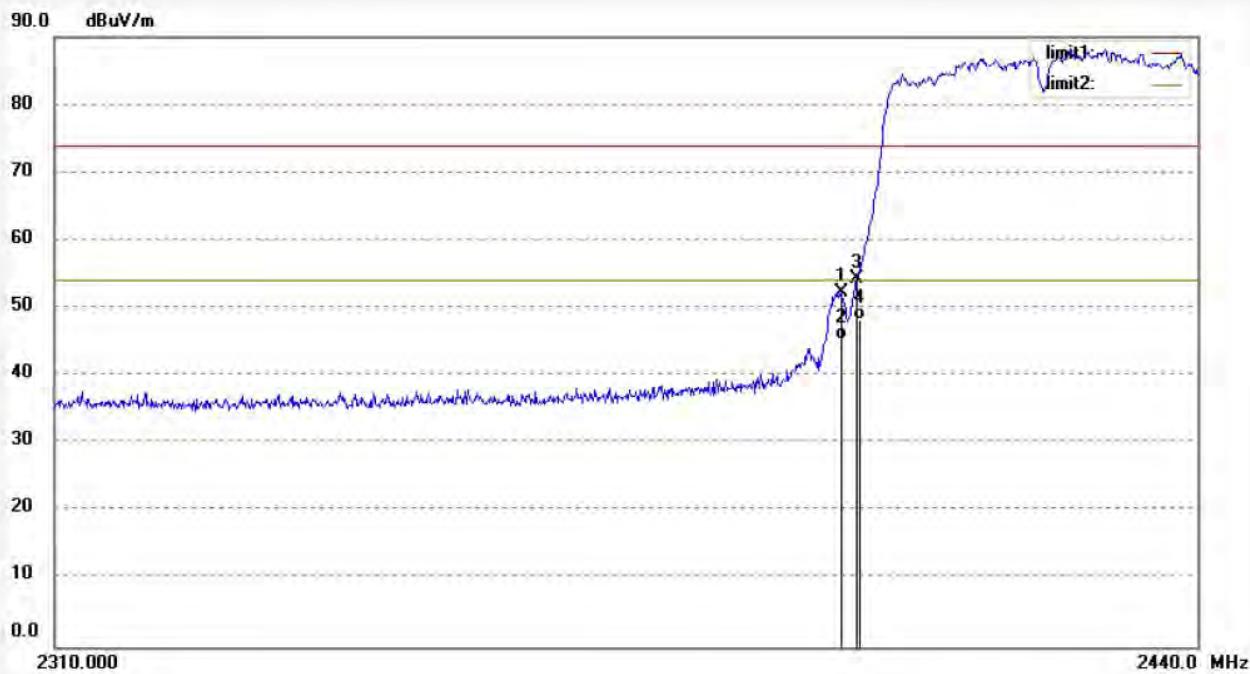
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	alen #2938	Polarization:	Vertical
Standard:	FCC PK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	13/12/11/
Temp.( C)/Hum.(%)	25 C / 55 %	Time:	14/15/10
EUT:	Novo10 Hero II User Manual	Engineer Signature:	
Mode:	TX 2422MHz(802.11n40)	Distance:	3m
Model:	Novo10 Hero II		
Manufacturer:	Ainol		
Note:	Report No:ATE20132549		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2398.790	59.16	-6.76	52.40	74.00	-21.60	peak			
2	2398.790	52.17	-6.76	45.41	54.00	-8.59	AVG			
3	2400.610	61.10	-6.76	54.34	74.00	-19.66	peak			
4	2400.610	55.04	-6.76	48.28	54.00	-5.72	AVG			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2936

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 14/12/46

EUT: Novo10 Hero II User Manual

Engineer Signature:

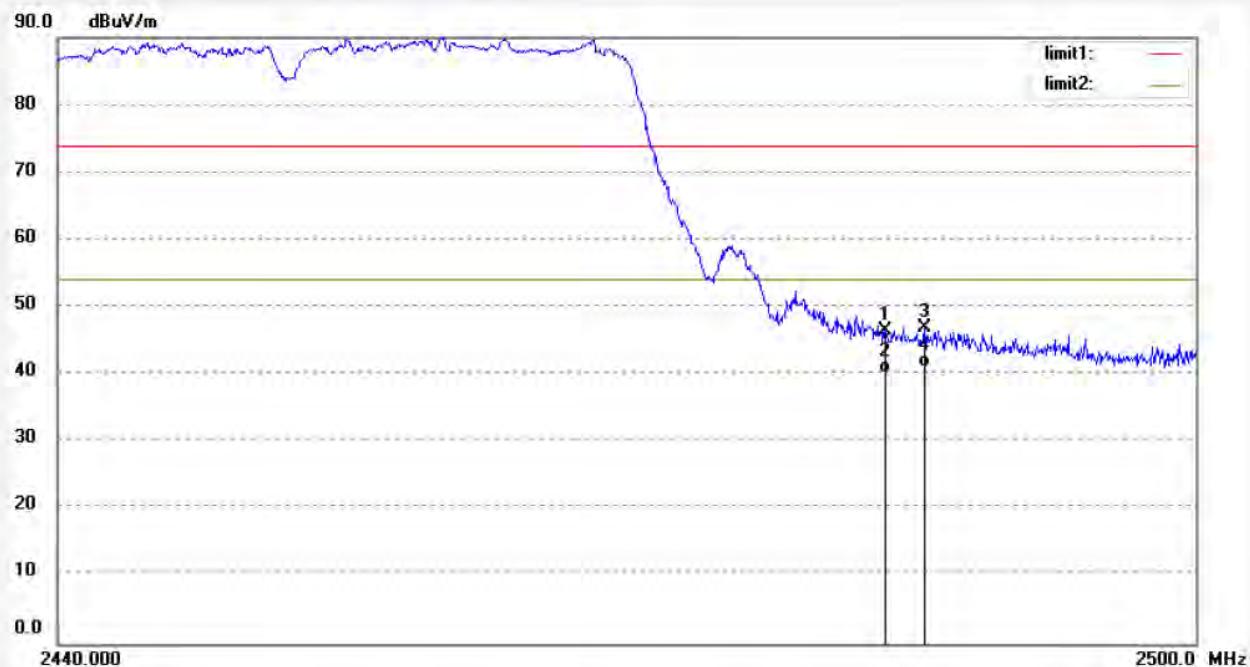
Mode: TX 2452MHz(802.11n40)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	52.96	-6.54	46.42	74.00	-27.58	peak			
2	2483.500	46.65	-6.54	40.11	54.00	-13.89	AVG			
3	2485.600	53.47	-6.54	46.93	74.00	-27.07	peak			
4	2485.600	47.58	-6.54	41.04	54.00	-12.96	AVG			

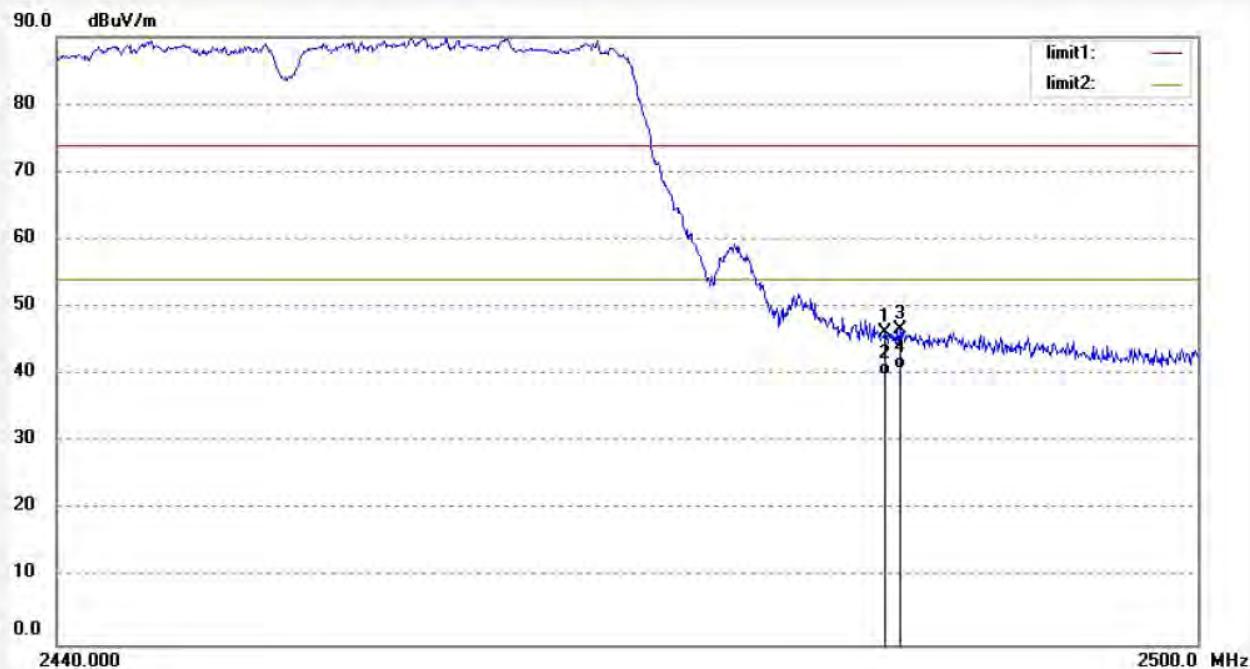


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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.:	alen #2935	Polarization:	Vertical
Standard:	FCC PK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	13/12/11/
Temp.( C)/Hum.(%)	25 C / 55 %	Time:	14/12/18
EUT:	Novo10 Hero II User Manual	Engineer Signature:	
Mode:	TX 2452MHz(802.11n40)	Distance:	3m
Model:	Novo10 Hero II		
Manufacturer:	Ainol		
Note:	Report No:ATE20132549		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.440	52.68	-6.54	46.14	74.00	-27.86	peak			
2	2483.440	46.57	-6.54	40.03	54.00	-13.97	AVG			
3	2484.220	53.34	-6.54	46.80	74.00	-27.20	peak			
4	2484.220	47.35	-6.54	40.81	54.00	-13.19	AVG			

## 10.RADIATED SPURIOUS EMISSION TEST

### 10.1.Block Diagram of Test Setup

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

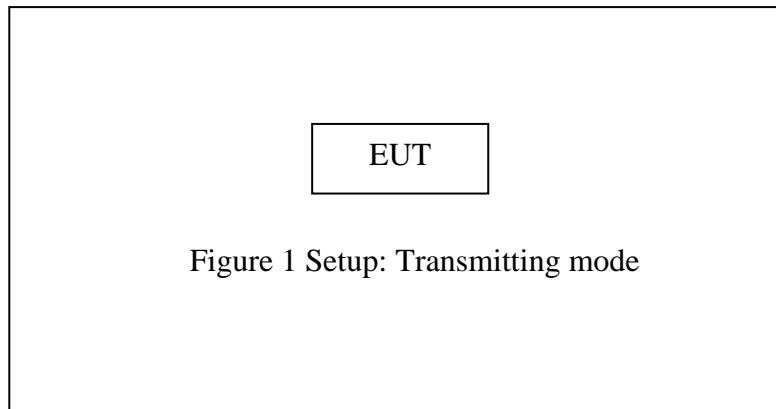
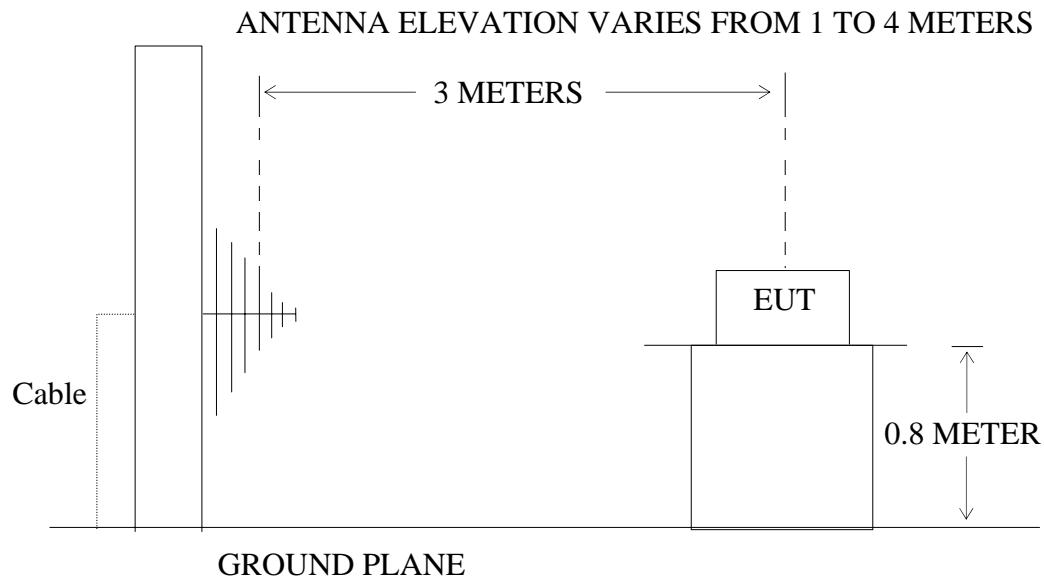


Figure 1 Setup: Transmitting mode

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



### 10.2.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).

### 10.3. Restricted bands of operation

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

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

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

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

<sup>2</sup>Above 38.6

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

### 10.4. Configuration of EUT on Measurement

The 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.

## 10.5.Operating Condition of EUT

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

10.5.2.Turn on the power of all equipment.

10.5.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

## 10.6.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: 2009 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 and 150Mbps for 802.11n mode, based on previous with 802.11 WLAN product design architectures.

The bandwidth of test receiver is set at 9kHz in below 30MHz. and set at 120kHz in 30-1000MHz, and 1MHz in above 1000MHz.

The frequency range from 9kHz to 25GHz 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

## 10.7.The Field Strength of Radiation Emission Measurement Results

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

2. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.
3. The EUT is tested radiation emission at each test mode(802.11 b/g/n) in three axes. The worst emissions are reported in all test mode and channels.
4. The radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.
5. Above 1G measurement, if the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.

## Below 1G



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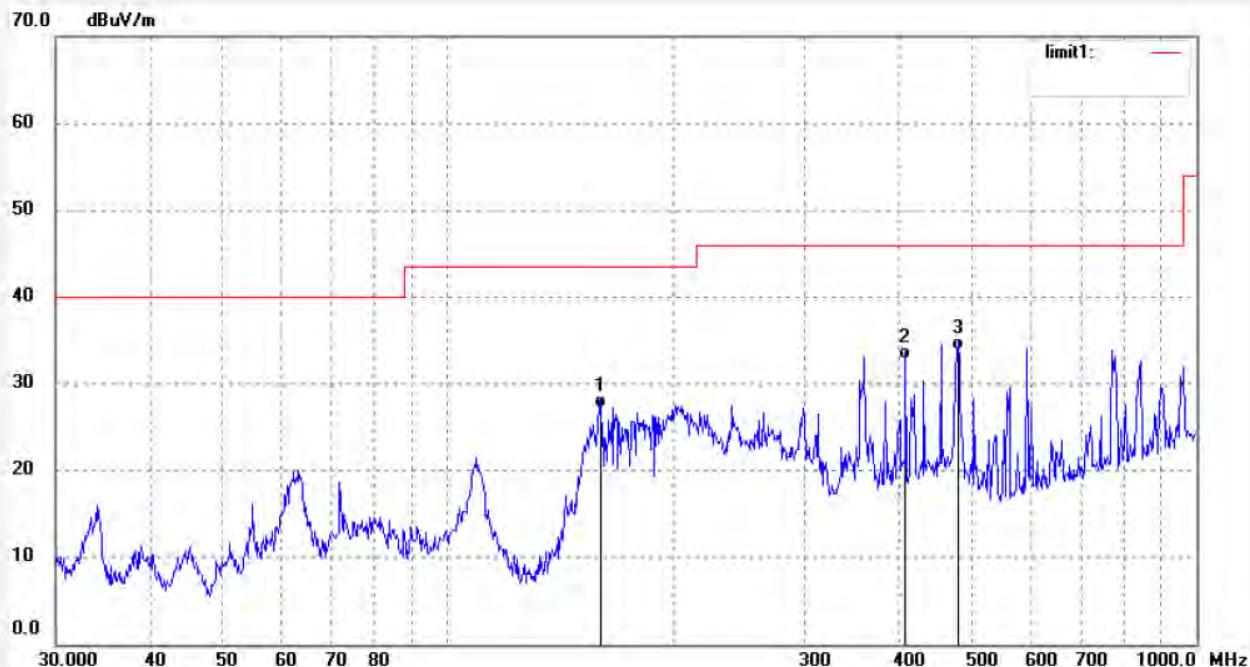
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2865	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/11/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 8/46/59
EUT: Novo10 Hero II User Manual	Engineer Signature:
Mode: TX 2412MHz(802.11b)	Distance: 3m
Model: Novo10 Hero II	
Manufacturer: Ainol	
Note: Report No:ATE20132549	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	160.3456	50.07	-22.82	27.25	43.50	-16.25	QP			
2	408.9460	48.21	-15.48	32.73	46.00	-13.27	QP			
3	480.5276	48.10	-14.16	33.94	46.00	-12.06	QP			



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Job No.: alen #2864

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 8/45/59

EUT: Novo10 Hero II User Manual

Engineer Signature:

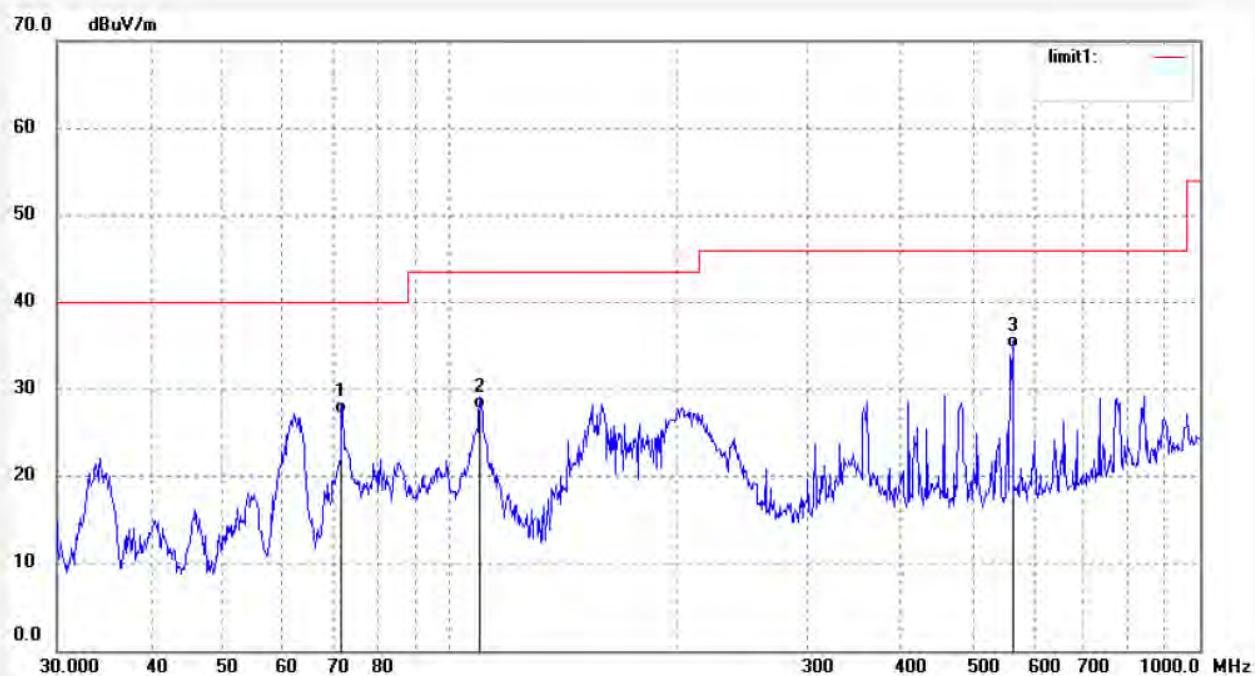
Mode: TX 2412MHz(802.11b)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.8319	48.69	-21.45	27.24	40.00	-12.76	QP			
2	109.7960	50.01	-22.19	27.82	43.50	-15.68	QP			
3	562.6624	47.21	-12.55	34.66	46.00	-11.34	QP			



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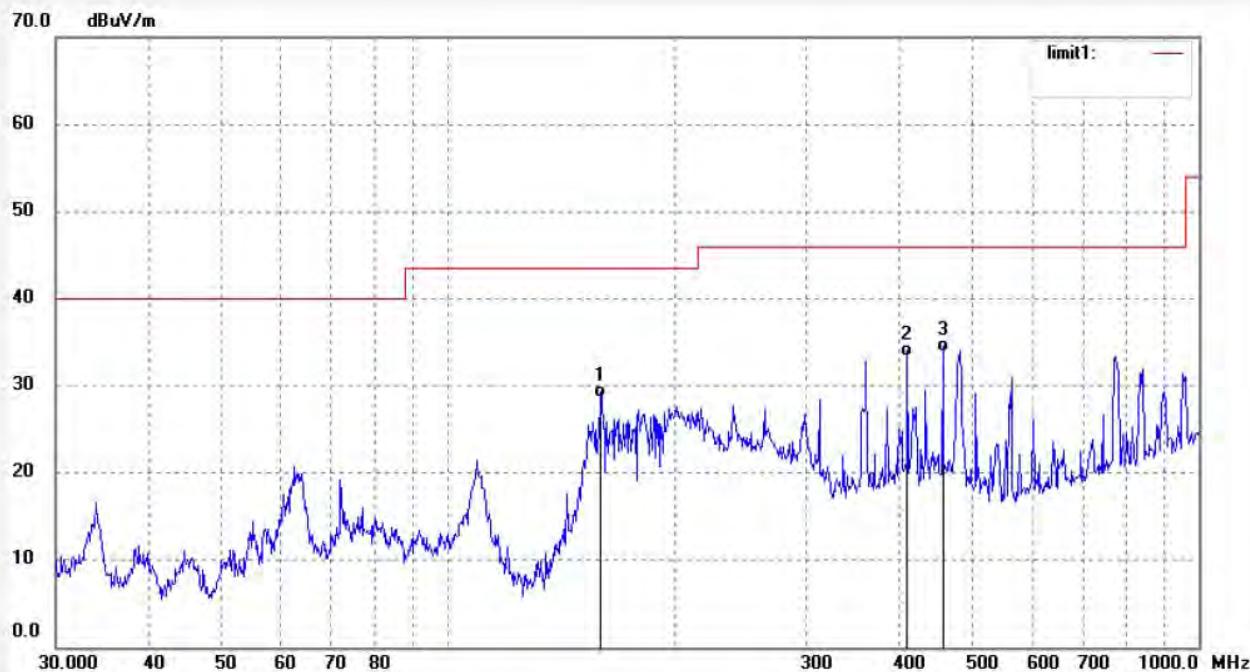
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Site: 1# Chamber

Tel:+86-0755-26503290

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Job No.: alen #2862	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/11/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 8/44/21
EUT: Novo10 Hero II User Manual	Engineer Signature:
Mode: TX 2437MHz(802.11b)	Distance: 3m
Model: Novo10 Hero II	
Manufacturer: Ainol	
Note: Report No:ATE20132549	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	159.7844	51.41	-22.87	28.54	43.50	-14.96	QP			
2	408.9460	48.87	-15.48	33.39	46.00	-12.61	QP			
3	455.9057	48.32	-14.53	33.79	46.00	-12.21	QP			

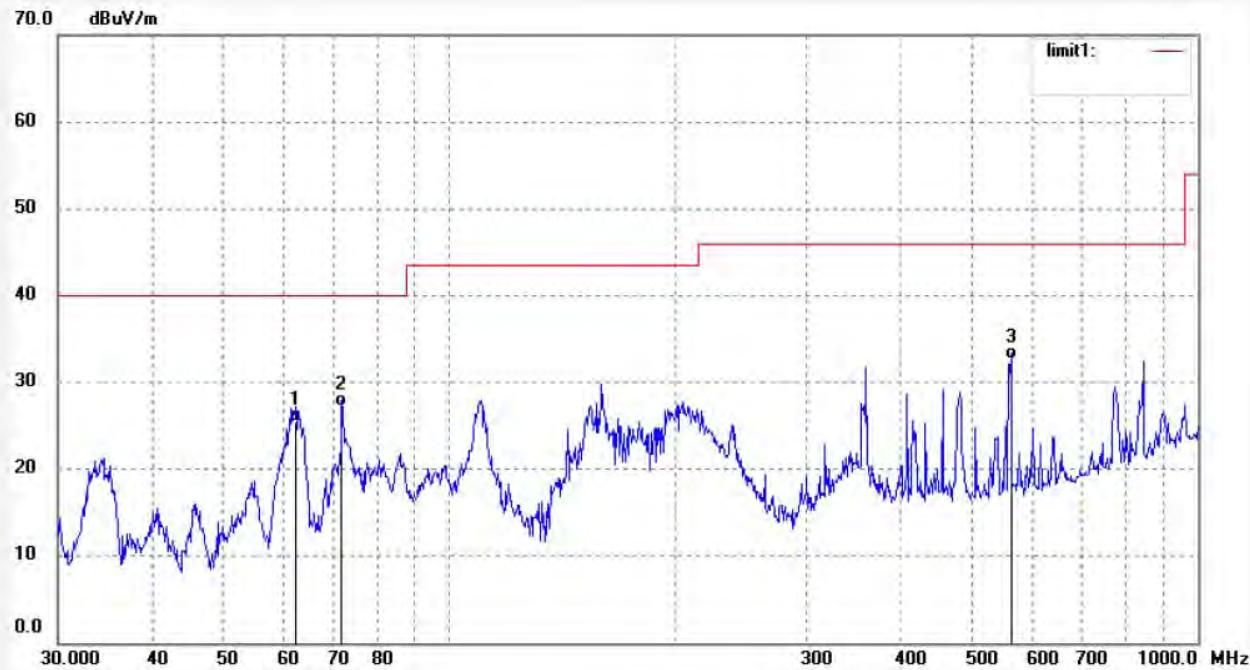


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Fax:+86-0755-26503396

Job No.:	alen #2863	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	13/12/11/
Temp.( C)/Hum.(%)	25 C / 55 %	Time:	8/45/10
EUT:	Novo10 Hero II User Manual	Engineer Signature:	
Mode:	TX 2437MHz(802.11b)	Distance:	3m
Model:	Novo10 Hero II		
Manufacturer:	Ainol		
Note:	Report No:ATE20132549		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	62.4313	46.65	-21.13	25.52	40.00	-14.48	QP			
2	71.8319	48.63	-21.45	27.18	40.00	-12.82	QP			
3	562.6624	45.21	-12.55	32.66	46.00	-13.34	QP			



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Job No.: alen #2861

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 8/43/44

EUT: Novo10 Hero II User Manual

Engineer Signature:

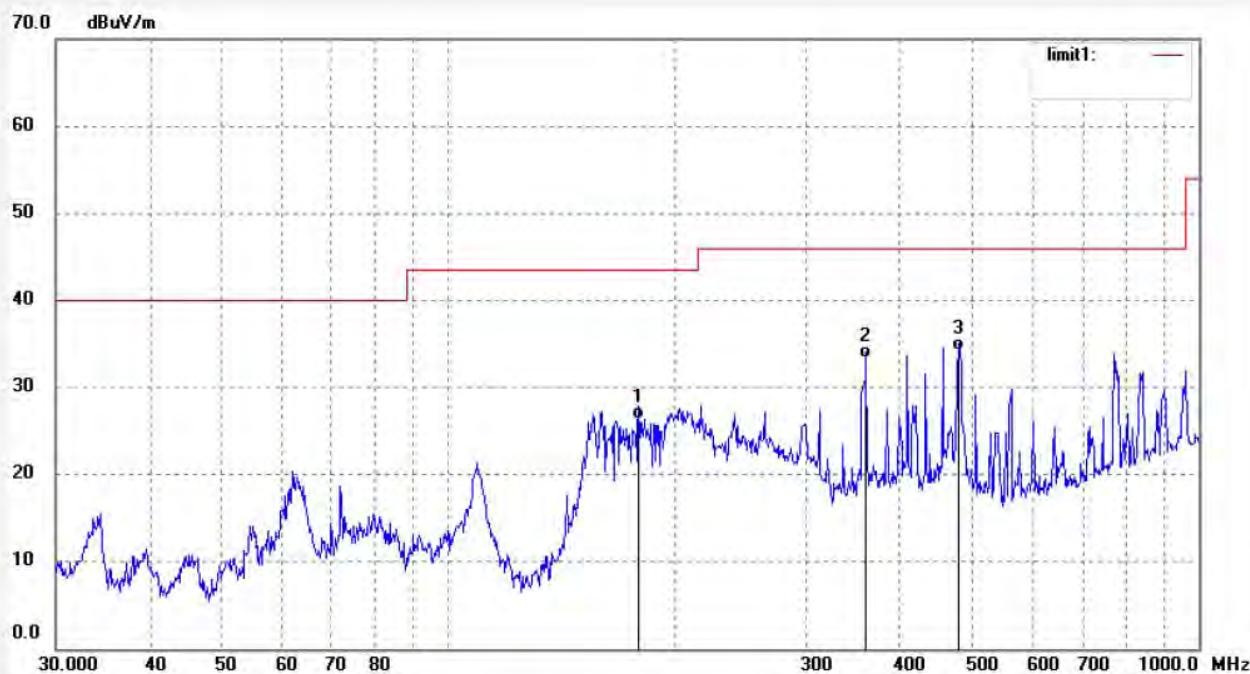
Mode: TX 2462MHz(802.11b)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	179.3863	48.25	-21.91	26.34	43.50	-17.16	QP			
2	360.4476	49.21	-15.92	33.29	46.00	-12.71	QP			
3	478.8455	48.32	-14.17	34.15	46.00	-11.85	QP			



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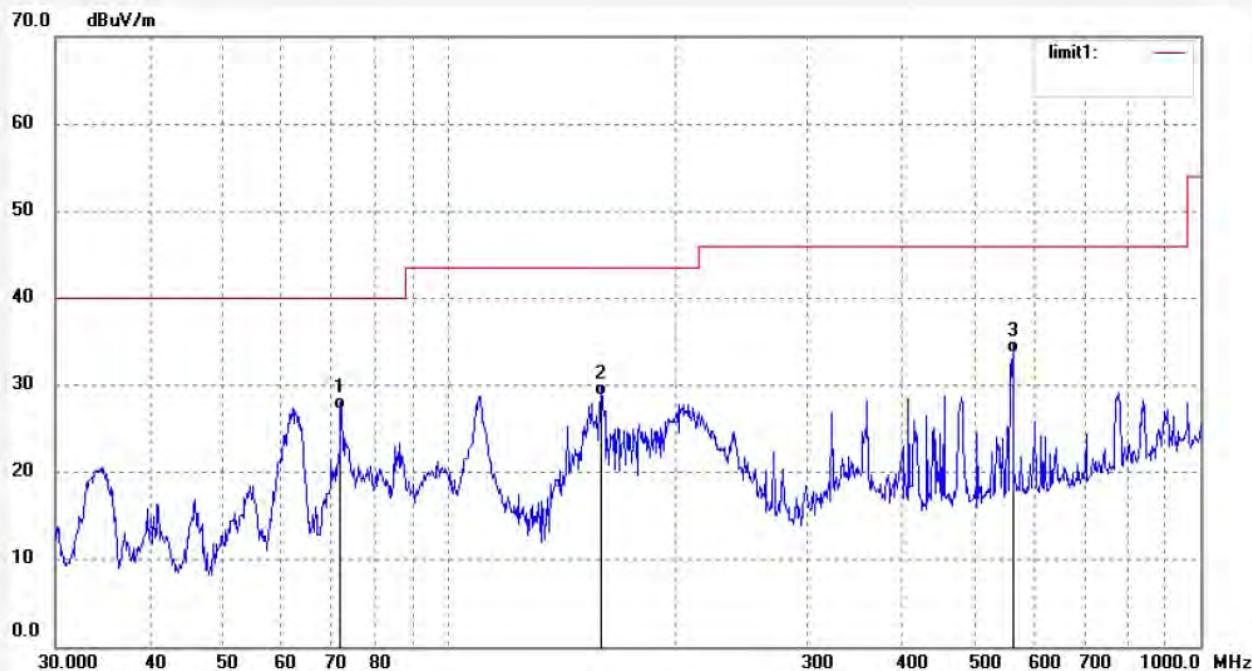
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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2860	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/11/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 8/42/55
EUT: Novo10 Hero II User Manual	Engineer Signature:
Mode: TX 2462MHz(802.11b)	Distance: 3m
Model: Novo10 Hero II	
Manufacturer: Ainol	
Note: Report No:ATE20132549	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.8319	48.65	-21.45	27.20	40.00	-12.80	QP			
2	159.7844	51.68	-22.87	28.81	43.50	-14.69	QP			
3	562.6624	46.32	-12.55	33.77	46.00	-12.23	QP			



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Job No.: alen #2854

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 8/38/09

EUT: Novo10 Hero II User Manual

Engineer Signature:

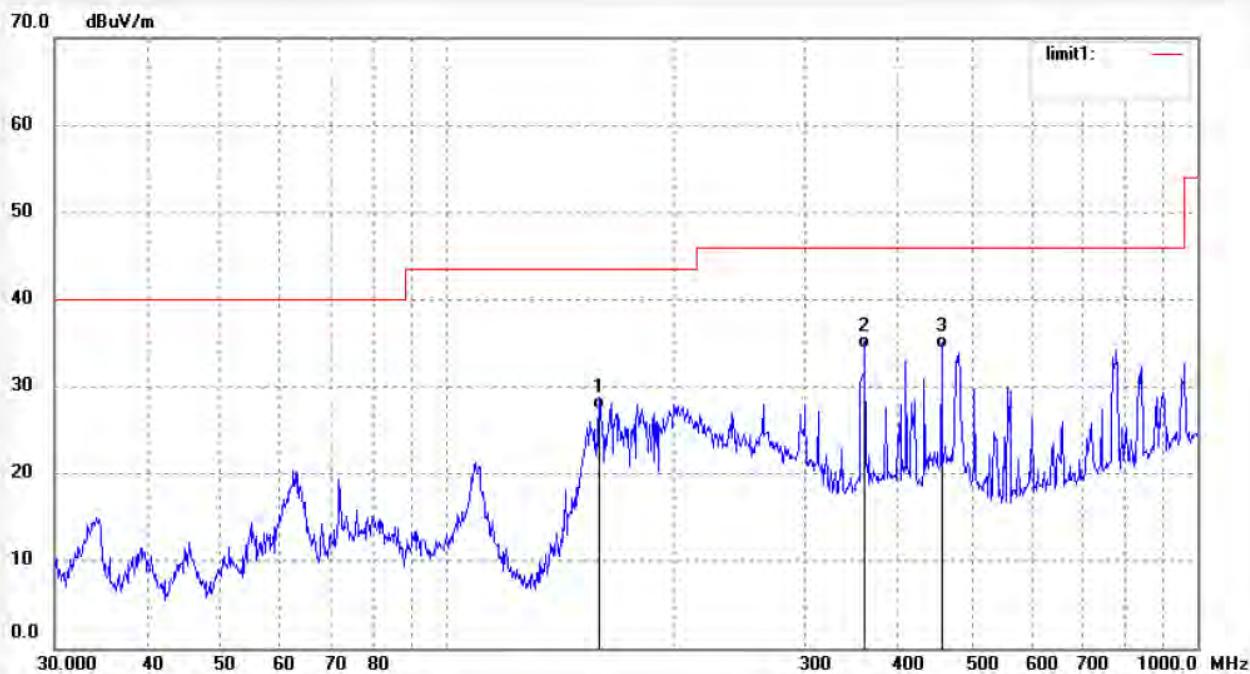
Mode: TX 2412MHz(802.11g)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	159.2250	50.29	-22.93	27.36	43.50	-16.14	QP			
2	360.4476	50.37	-15.92	34.45	46.00	-11.55	QP			
3	455.9057	48.89	-14.53	34.36	46.00	-11.64	QP			



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Job No.: alen #2855

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 8/38/58

EUT: Novo10 Hero II User Manual

Engineer Signature:

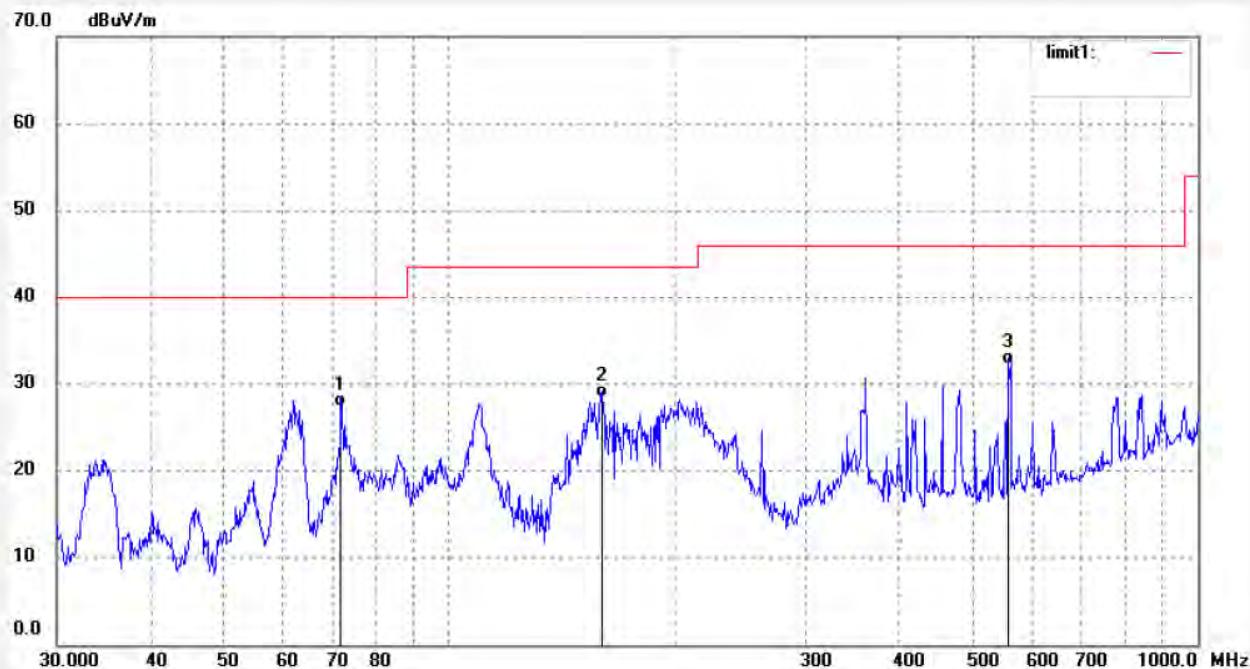
Mode: TX 2412MHz(802.11g)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.8319	48.89	-21.45	27.44	40.00	-12.56	QP			
2	160.3456	51.27	-22.82	28.45	43.50	-15.05	QP			
3	558.7301	45.01	-12.64	32.37	46.00	-13.63	QP			



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Fax:+86-0755-26503396

Job No.: alen #2857

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 8/40/42

EUT: Novo10 Hero II User Manual

Engineer Signature:

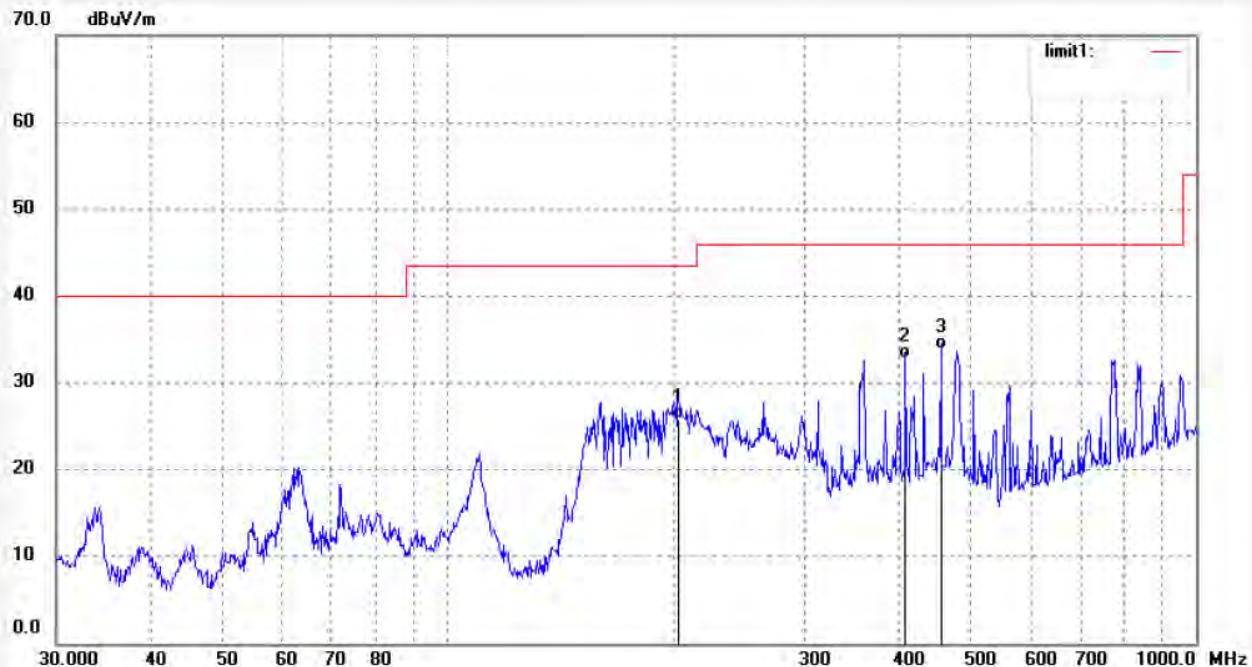
Mode: TX 2437MHz(802.11g)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	203.5227	45.88	-20.11	25.77	43.50	-17.73	QP			
2	408.9460	48.35	-15.48	32.87	46.00	-13.13	QP			
3	455.9057	48.41	-14.53	33.88	46.00	-12.12	QP			



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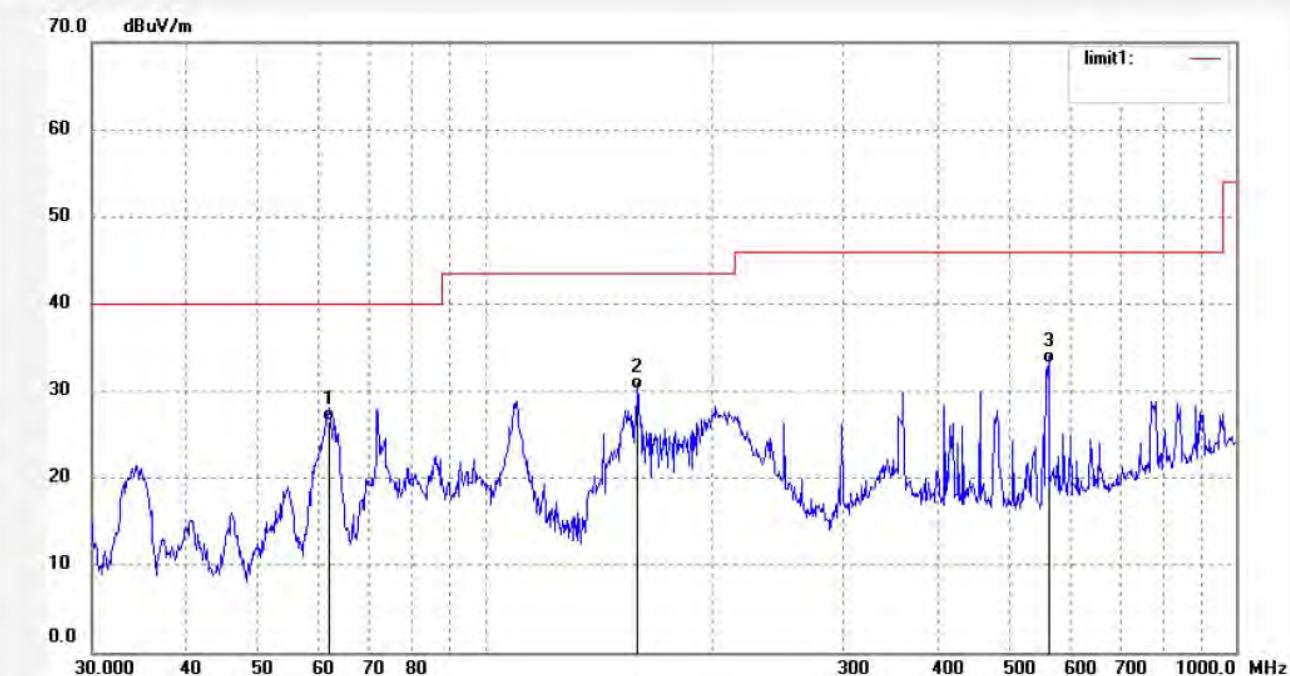
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2856	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/11/
Temp. ( C)/Hum.(%) 25 C / 55 %	Time: 8/39/44
EUT: Novo10 Hero II User Manual	Engineer Signature:
Mode: TX 2437MHz(802.11g)	Distance: 3m
Model: Novo10 Hero II	
Manufacturer: Ainol	
Note: Report No:ATE20132549	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	61.9951	47.65	-21.13	26.52	40.00	-13.48	QP			
2	159.7844	53.02	-22.87	30.15	43.50	-13.35	QP			
3	562.6624	45.78	-12.55	33.23	46.00	-12.77	QP			



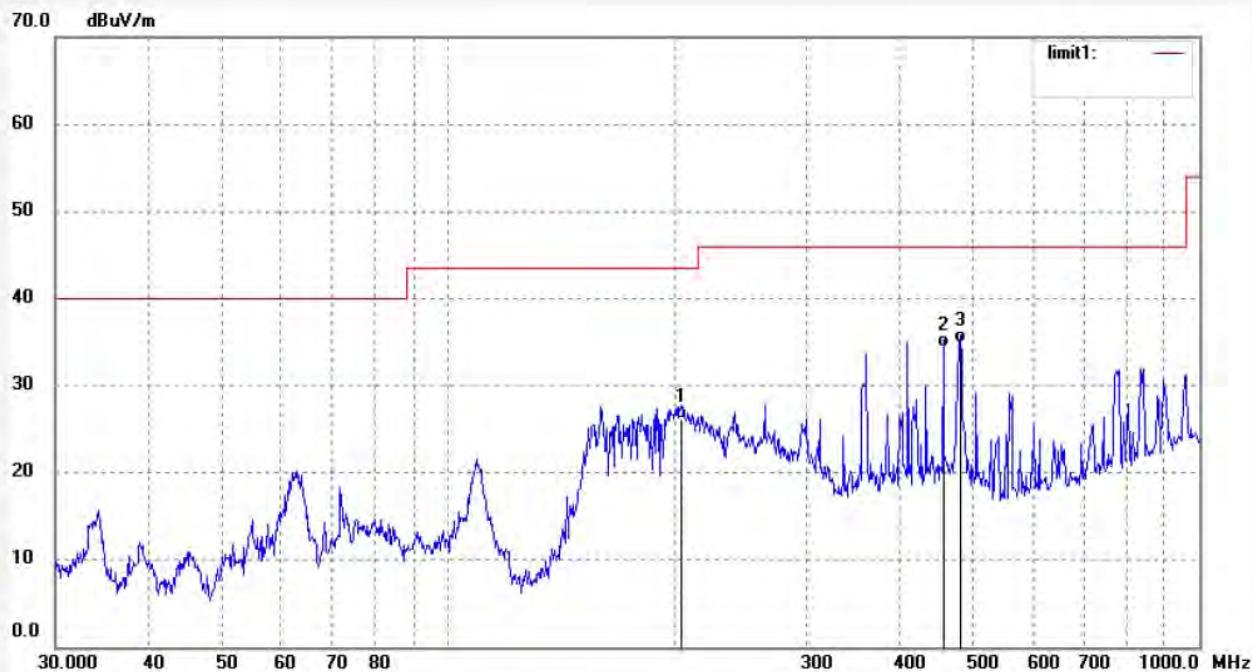
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Fax:+86-0755-26503396

Job No.: alen #2858	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/11/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 8/41/21
EUT: Novo10 Hero II User Manual	Engineer Signature:
Mode: TX 2462MHz(802.11g)	Distance: 3m
Model: Novo10 Hero II	
Manufacturer: Ainol	

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	204.2376	46.24	-20.09	26.15	43.50	-17.35	QP			
2	455.9057	48.87	-14.53	34.34	46.00	-11.66	QP			
3	480.5276	48.99	-14.16	34.83	46.00	-11.17	QP			

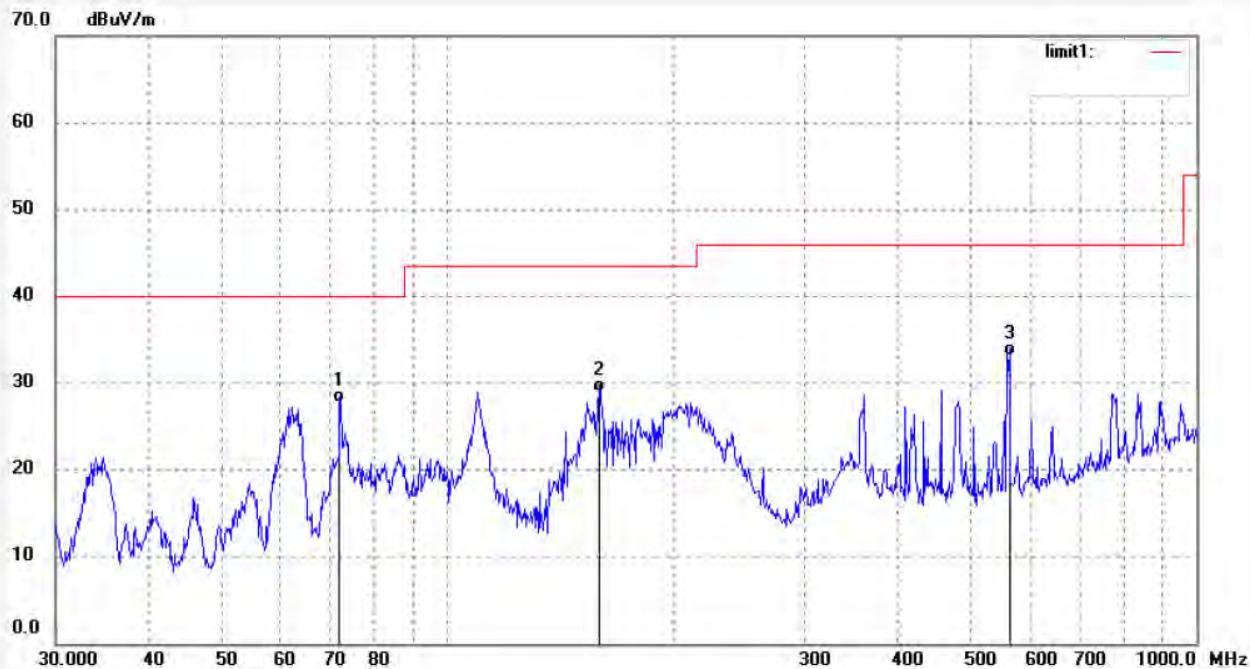


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Job No.: alen #2859	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/11/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 8/42/16
EUT: Novo10 Hero II User Manual	Engineer Signature:
Mode: TX 2462MHz(802.11g)	Distance: 3m
Model: Novo10 Hero II	
Manufacturer: Ainol	
Note: Report No:ATE20132549	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.8319	49.17	-21.45	27.72	40.00	-12.28	QP			
2	159.2250	51.87	-22.93	28.94	43.50	-14.56	QP			
3	562.6624	45.78	-12.55	33.23	46.00	-12.77	QP			



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Job No.: alen #2853

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 8/37/31

EUT: Novo10 Hero II User Manual

Engineer Signature:

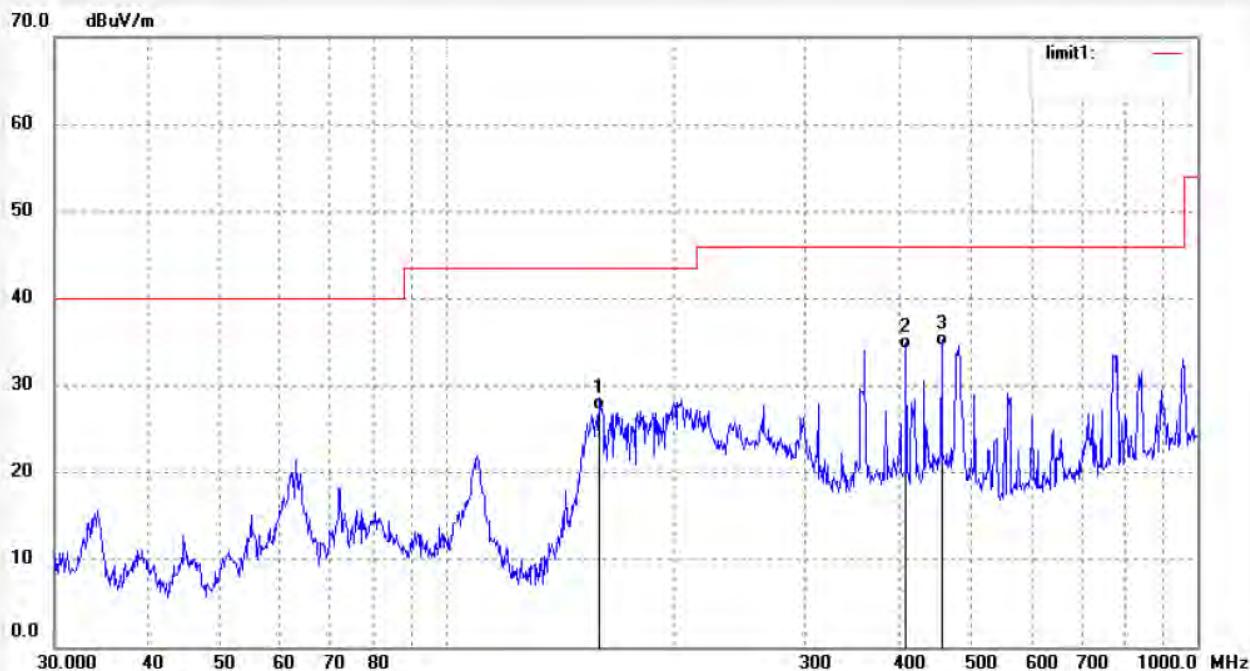
Mode: TX 2412MHz(802.11n20)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	159.2250	50.23	-22.93	27.30	43.50	-16.20	QP			
2	408.9460	49.65	-15.48	34.17	46.00	-11.83	QP			
3	455.9057	49.02	-14.53	34.49	46.00	-11.51	QP			



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Job No.: alen #2852

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 8/36/35

EUT: Novo10 Hero II User Manual

Engineer Signature:

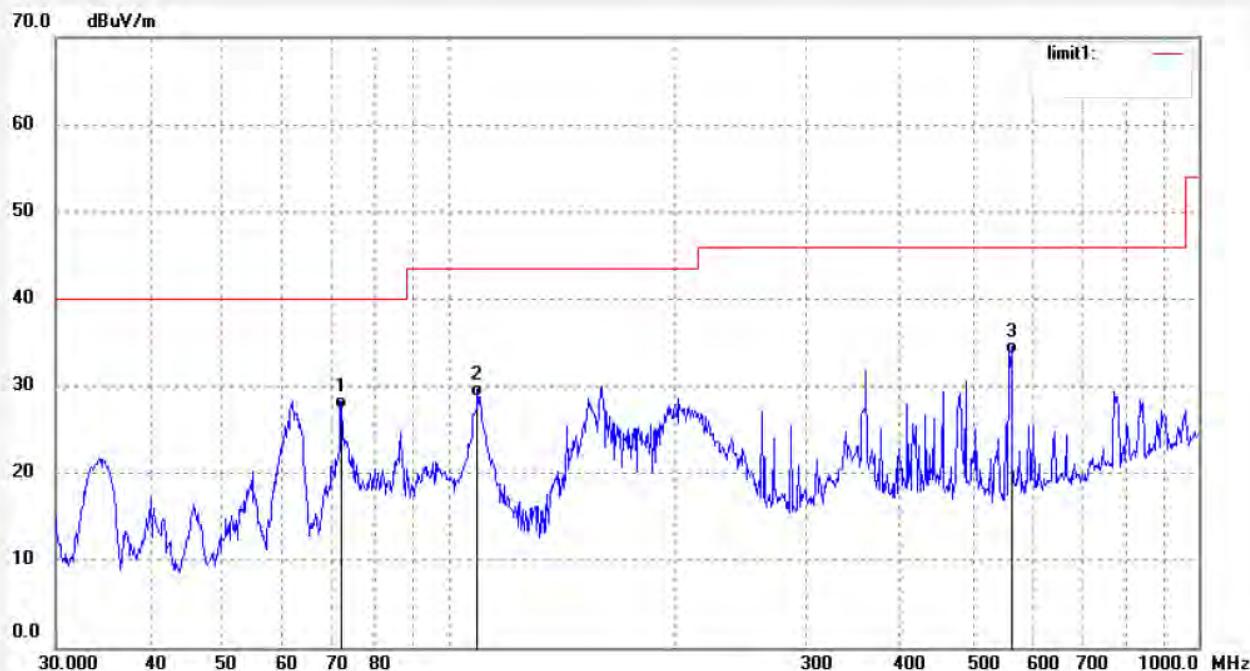
Mode: TX 2412MHz(802.11n20)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	72.0841	48.89	-21.46	27.43	40.00	-12.57	QP			
2	109.4116	51.01	-22.25	28.76	43.50	-14.74	QP			
3	562.6624	46.21	-12.55	33.66	46.00	-12.34	QP			



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Fax:+86-0755-26503396

Job No.: alen #2851

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/10/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/47/09

EUT: Novo10 Hero II User Manual

Engineer Signature:

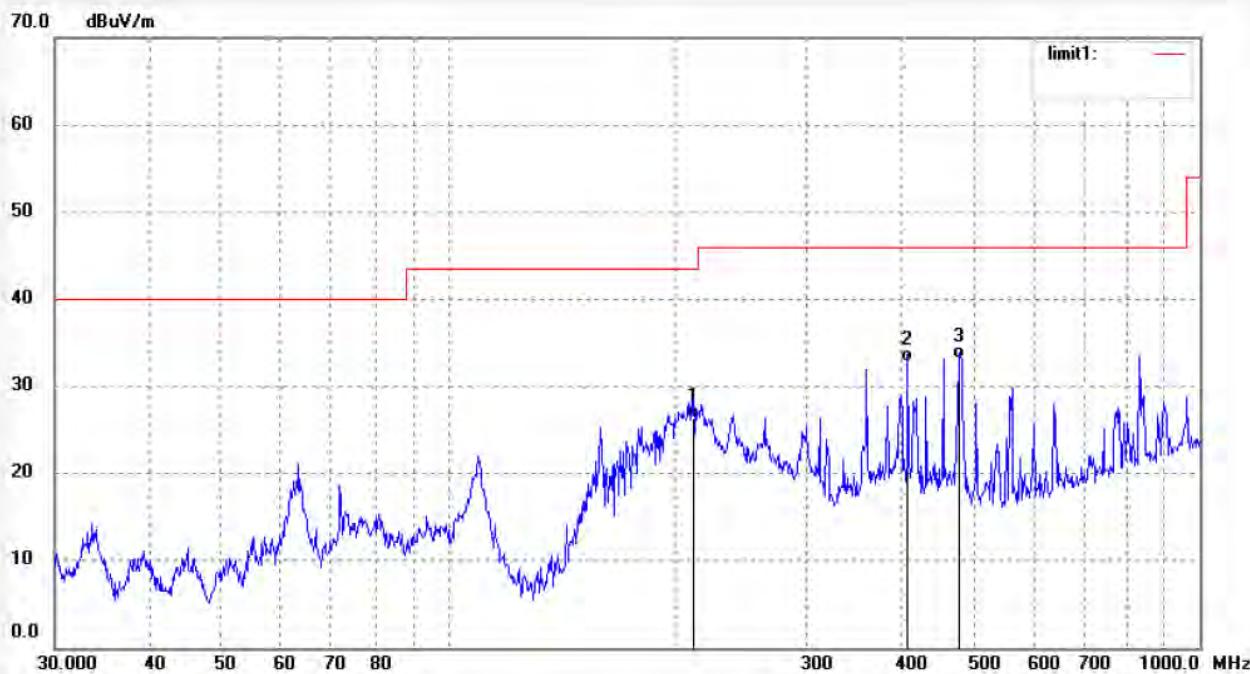
Mode: TX 2437MHz(802.11n20)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	212.2694	46.37	-20.00	26.37	43.50	-17.13	QP			
2	408.9460	48.28	-15.48	32.80	46.00	-13.20	QP			
3	478.8455	47.35	-14.17	33.18	46.00	-12.82	QP			



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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #2850

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/10/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/46/23

EUT: Novo10 Hero II User Manual

Engineer Signature:

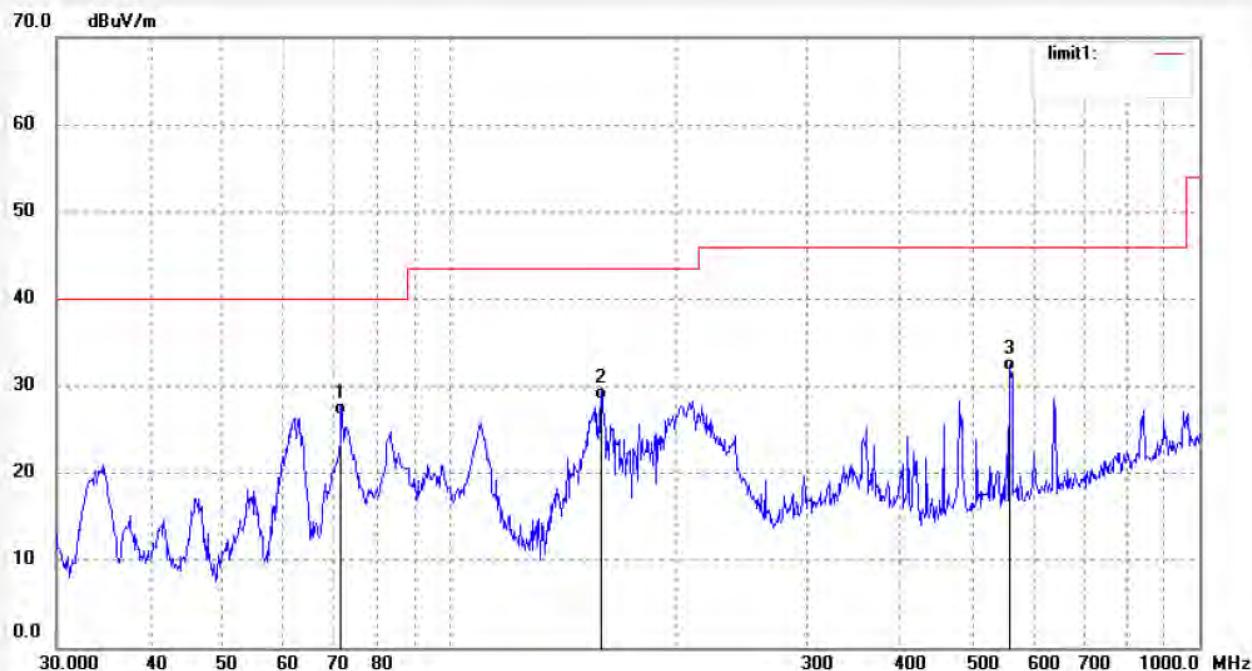
Mode: TX 2437MHz(802.11n20)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.8319	48.21	-21.45	26.76	40.00	-13.24	QP			
2	159.2250	51.36	-22.93	28.43	43.50	-15.07	QP			
3	558.7301	44.32	-12.64	31.68	46.00	-14.32	QP			



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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #2848	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/10/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 13/44/55
EUT: Novo10 Hero II User Manual	Engineer Signature:
Mode: TX 2462MHz(802.11n20)	Distance: 3m
Model: Novo10 Hero II	
Manufacturer: Ainol	
Note: Report No:ATE20132549	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	216.7828	46.69	-19.96	26.73	46.00	-19.27	QP			
2	408.9460	49.02	-15.48	33.54	46.00	-12.46	QP			
3	478.8455	47.74	-14.17	33.57	46.00	-12.43	QP			

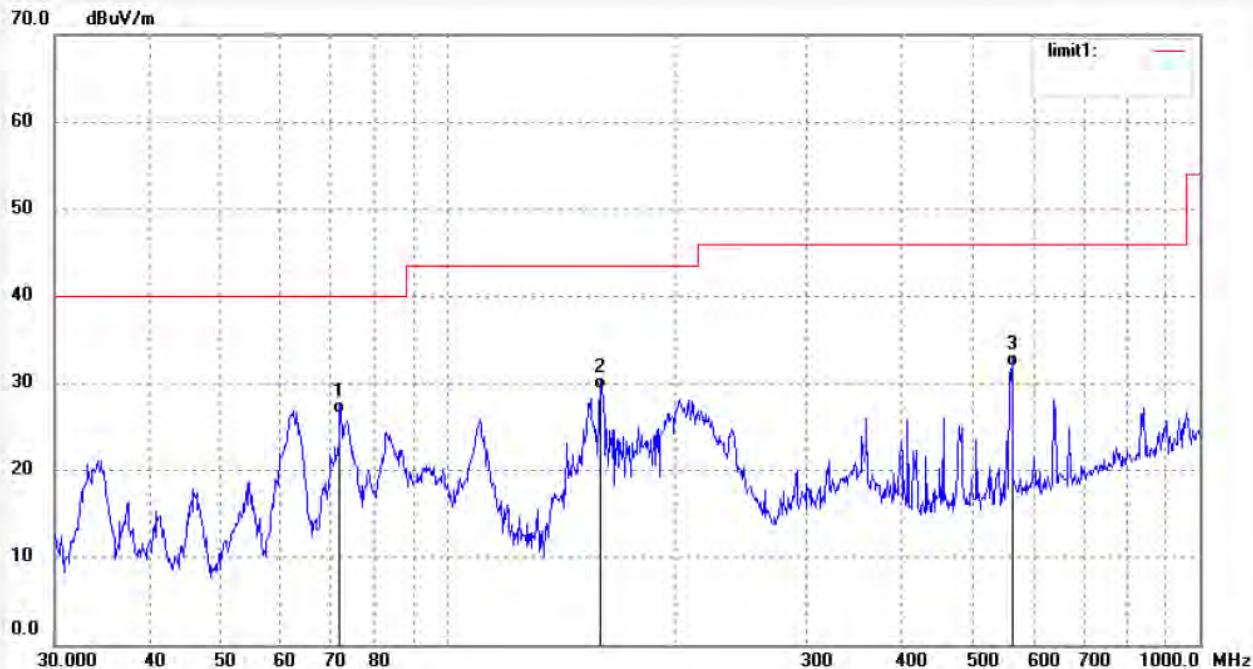


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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #2849	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/10/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 13/45/47
EUT: Novo10 Hero II User Manual	Engineer Signature:
Mode: TX 2462MHz(802.11n20)	Distance: 3m
Model: Novo10 Hero II	
Manufacturer: Ainol	
Note: Report No:ATE20132549	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.8319	48.03	-21.45	26.58	40.00	-13.42	QP			
2	159.7844	52.21	-22.87	29.34	43.50	-14.16	QP			
3	562.6624	44.57	-12.55	32.02	46.00	-13.98	QP			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2843

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/10/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/41/17

EUT: Novo10 Hero II User Manual

Engineer Signature:

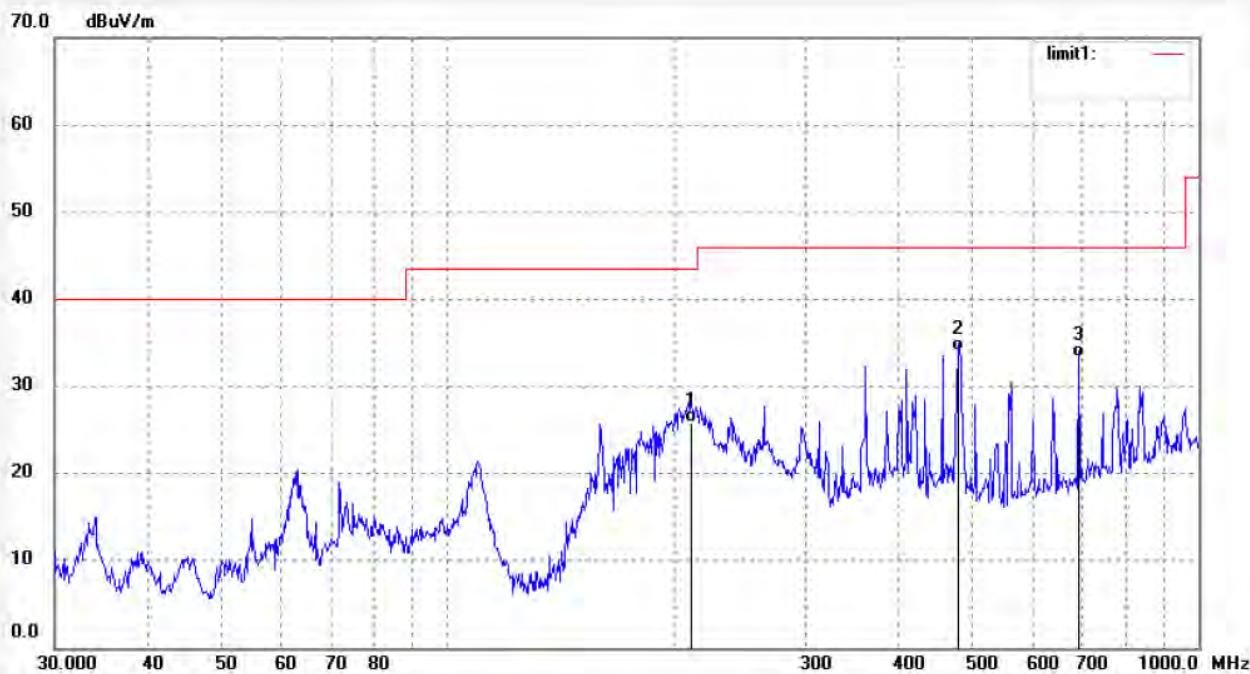
Mode: TX 2422MHz(802.11n40)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	210.7860	45.87	-20.01	25.86	43.50	-17.64	QP			
2	478.8455	48.14	-14.17	33.97	46.00	-12.03	QP			
3	691.9867	43.25	-9.94	33.31	46.00	-12.69	QP			



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

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2842

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/10/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/40/28

EUT: Novo10 Hero II User Manual

Engineer Signature:

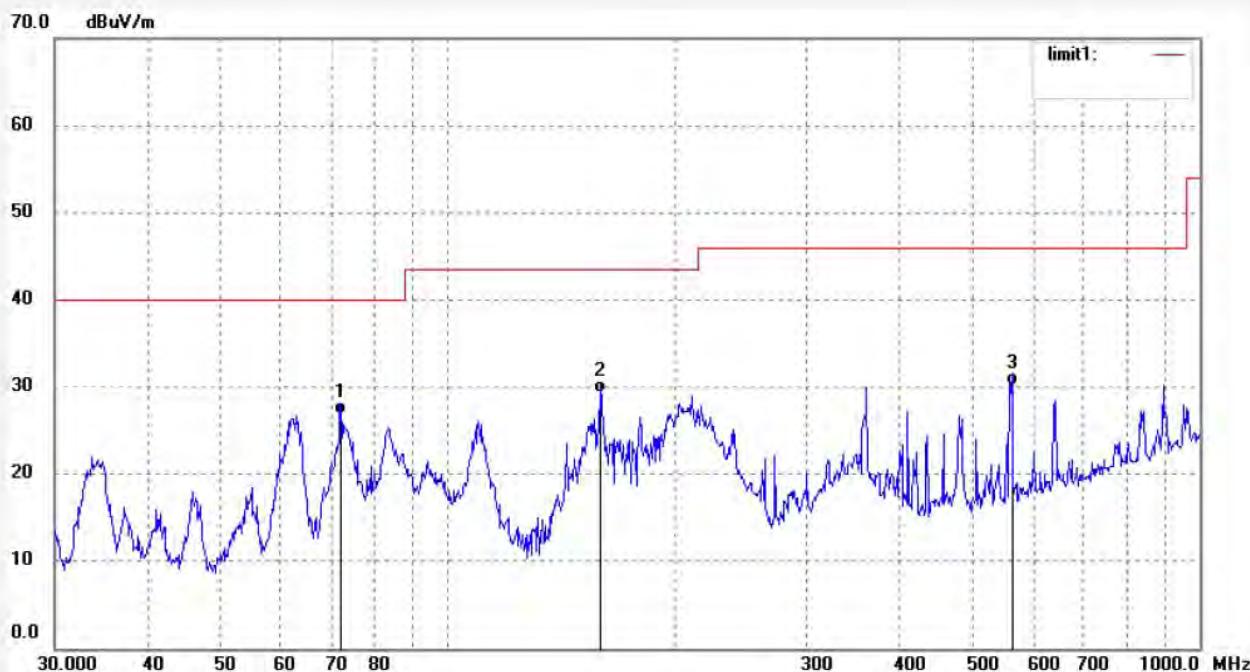
Mode: TX 2422MHz(802.11n40)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	72.0841	48.24	-21.46	26.78	40.00	-13.22	QP			
2	159.7844	52.10	-22.87	29.23	43.50	-14.27	QP			
3	562.6624	42.69	-12.55	30.14	46.00	-15.86	QP			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2844

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/10/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/41/54

EUT: Novo10 Hero II User Manual

Engineer Signature:

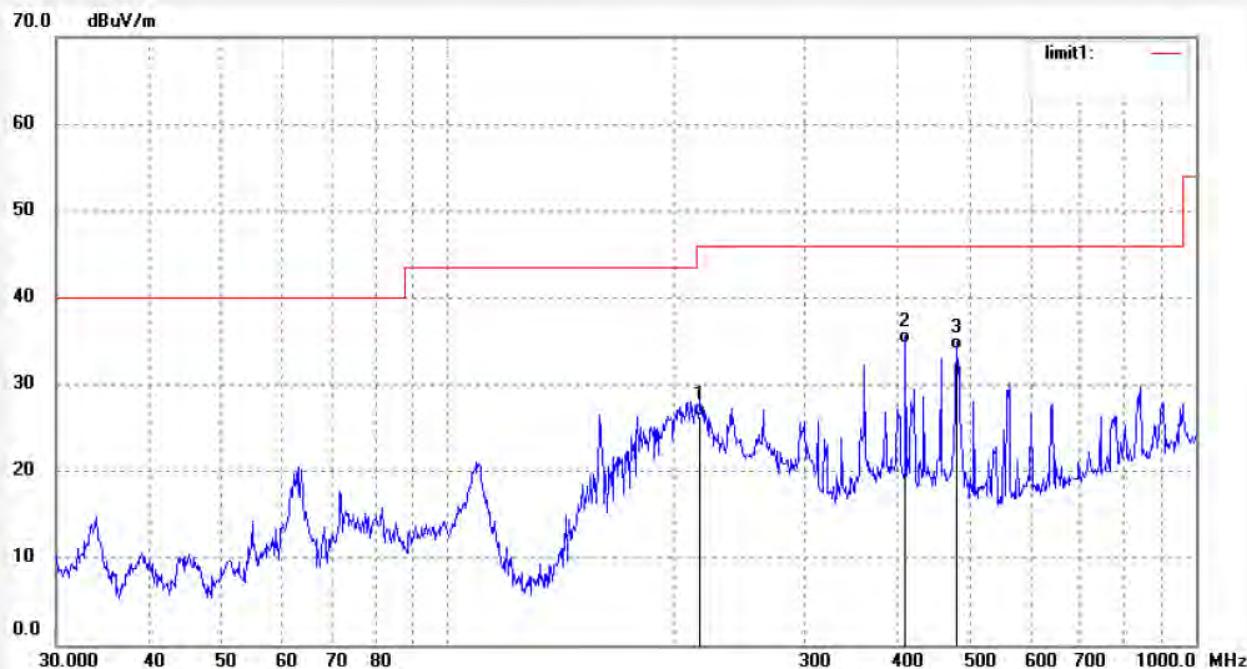
Mode: TX 2437MHz(802.11n40)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	217.5442	46.35	-19.96	26.39	46.00	-19.61	QP			
2	408.9460	50.17	-15.48	34.69	46.00	-11.31	QP			
3	478.8455	48.17	-14.17	34.00	46.00	-12.00	QP			



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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #2845

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/10/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/42/48

EUT: Novo10 Hero II User Manual

Engineer Signature:

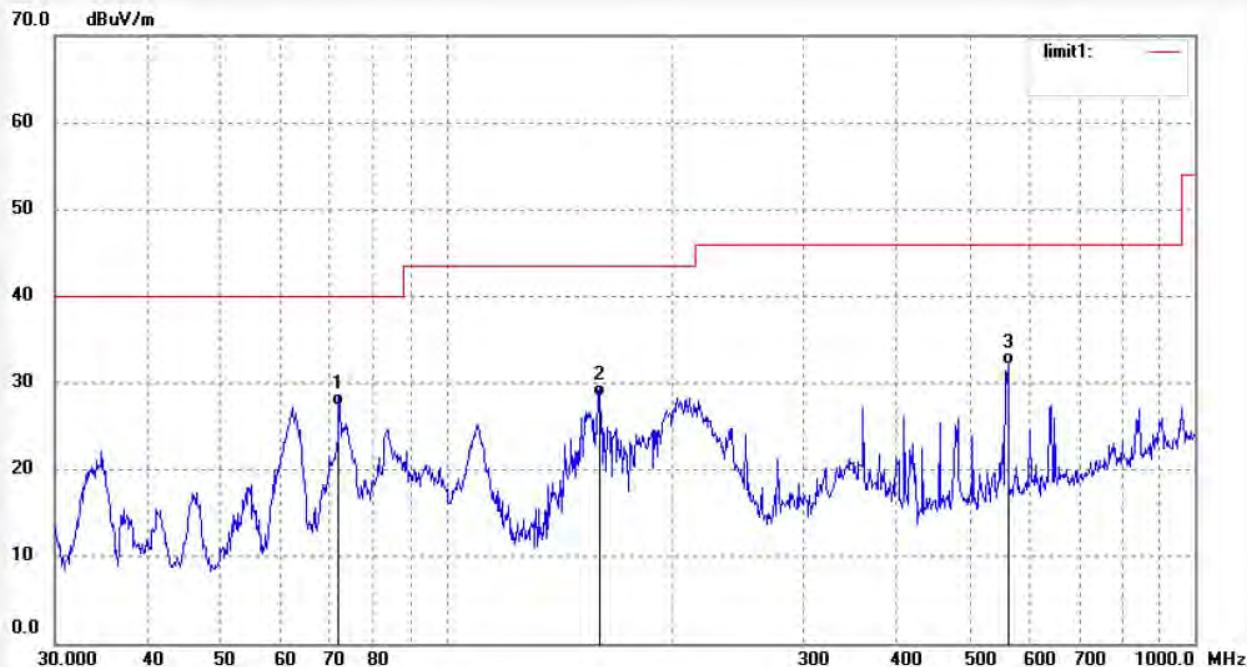
Mode: TX 2437MHz(802.11n40)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	71.8319	48.89	-21.45	27.44	40.00	-12.56	QP			
2	160.3456	51.27	-22.82	28.45	43.50	-15.05	QP			
3	562.6624	44.65	-12.55	32.10	46.00	-13.90	QP			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2847

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/10/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/44/11

EUT: Novo10 Hero II User Manual

Engineer Signature:

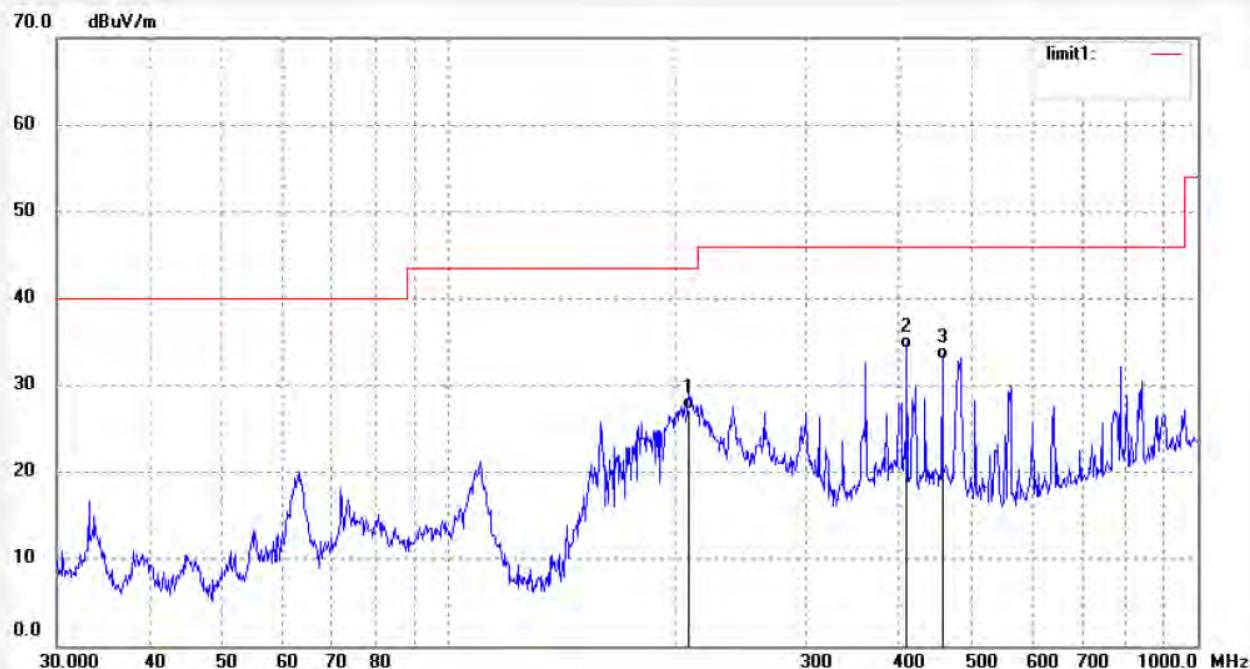
Mode: TX 2452MHz(802.11n40)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	209.3129	47.27	-20.02	27.25	43.50	-16.25	QP			
2	408.9460	49.68	-15.48	34.20	46.00	-11.80	QP			
3	455.9057	47.53	-14.53	33.00	46.00	-13.00	QP			



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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #2846

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/10/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/43/29

EUT: Novo10 Hero II User Manual

Engineer Signature:

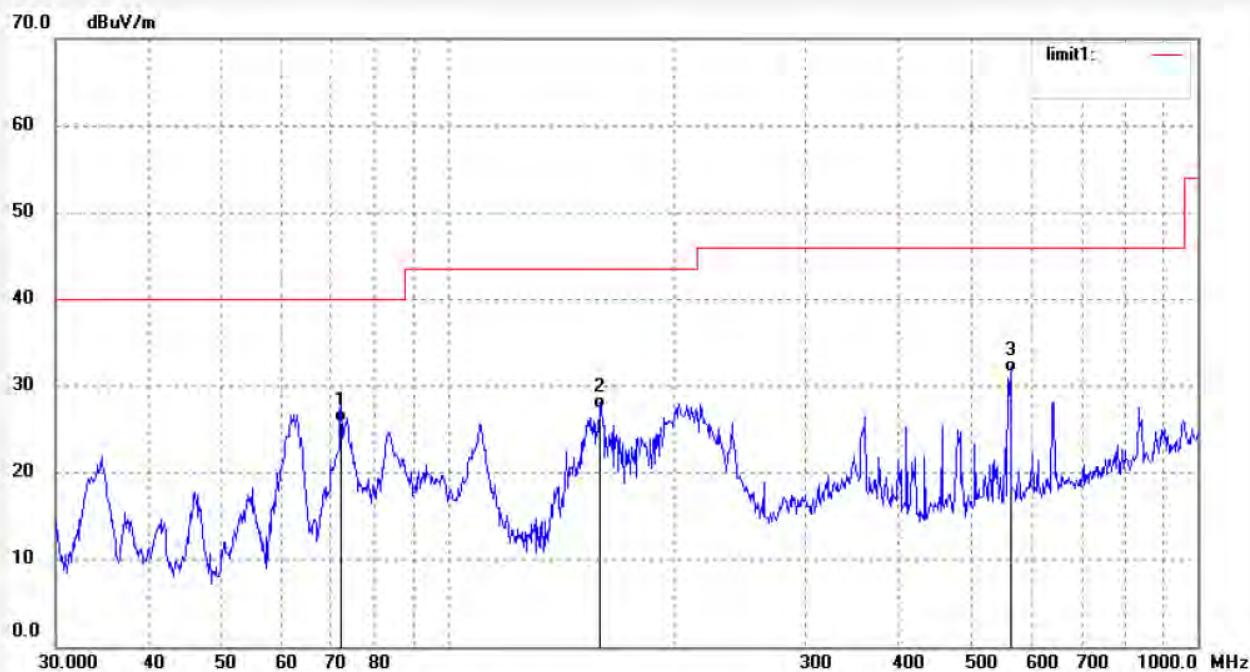
Mode: TX 2452MHz(802.11n40)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	72.0841	47.27	-21.46	25.81	40.00	-14.19	QP			
2	159.7844	50.21	-22.87	27.34	43.50	-16.16	QP			
3	562.6624	44.10	-12.55	31.55	46.00	-14.45	QP			

## Above 1G



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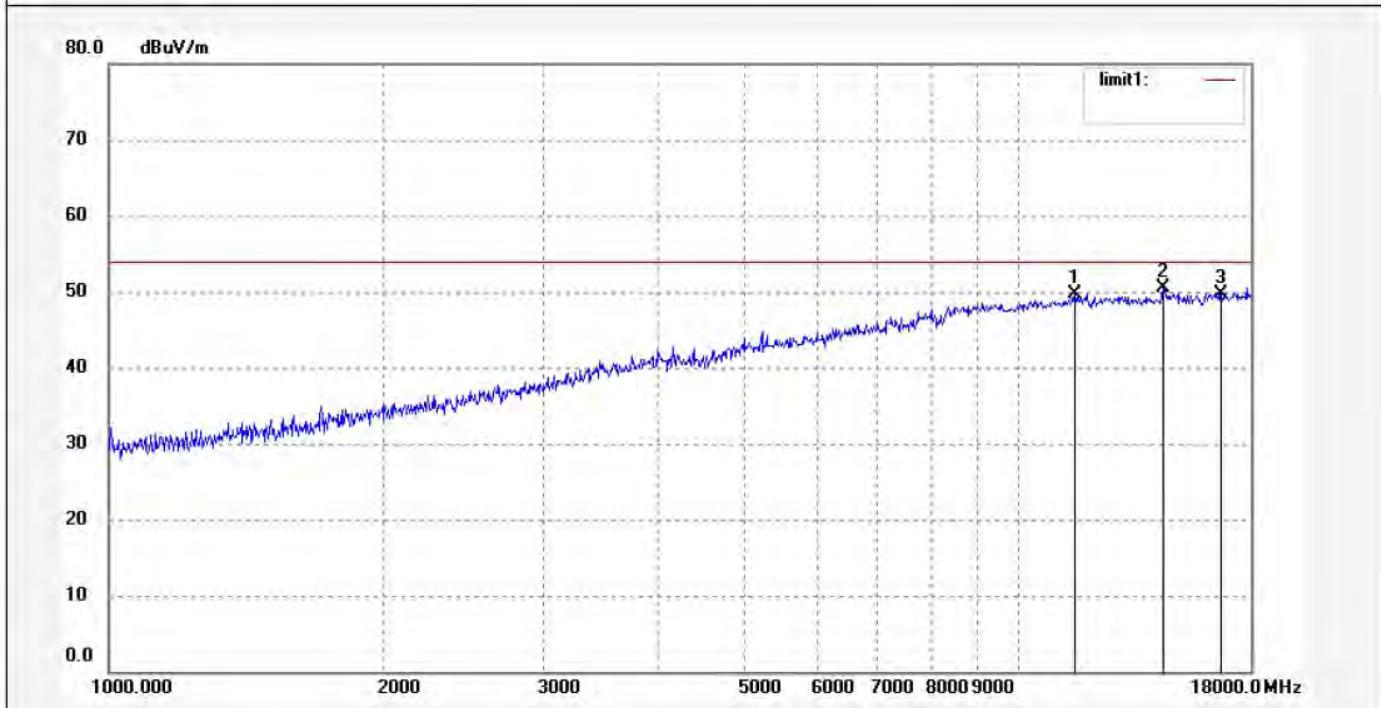
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2900	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/11/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 9/59/42
EUT: Novo10 Hero II User Manual	Engineer Signature:
Mode: TX 2412MHz(802.11b)	Distance: 3m
Model: Novo10 Hero II	
Manufacturer: Ainol	
Note: Report No:ATE20132549	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11533.485	43.72	6.07	49.79	54.00	-4.21	peak			
2	14408.425	37.93	12.53	50.46	54.00	-3.54	peak			
3	16696.884	36.97	12.81	49.78	54.00	-4.22	peak			

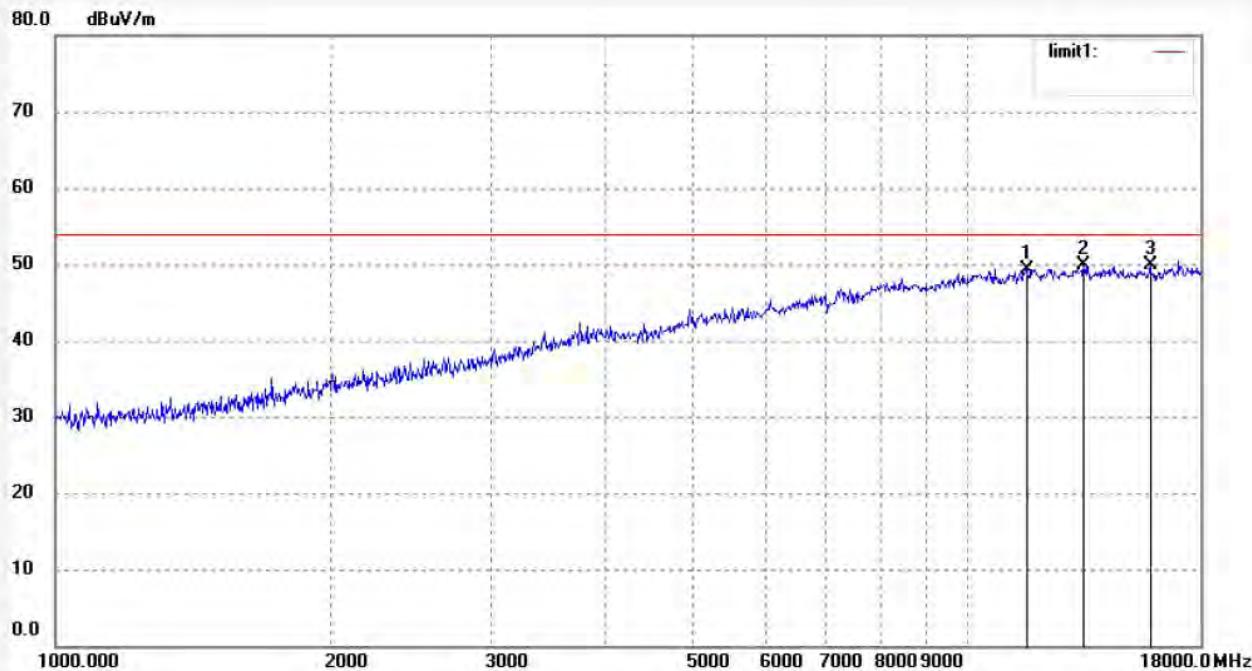


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Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #2899	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/11/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 9/59/01
EUT: Novo10 Hero II User Manual	Engineer Signature:
Mode: TX 2412MHz(802.11b)	Distance: 3m
Model: Novo10 Hero II	
Manufacturer: Ainol	
Note: Report No:ATE20132549	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11600.350	43.21	6.14	49.35	54.00	-4.65	peak			
2	13404.009	41.03	8.82	49.85	54.00	-4.15	peak			
3	15850.410	38.42	11.48	49.90	54.00	-4.10	peak			



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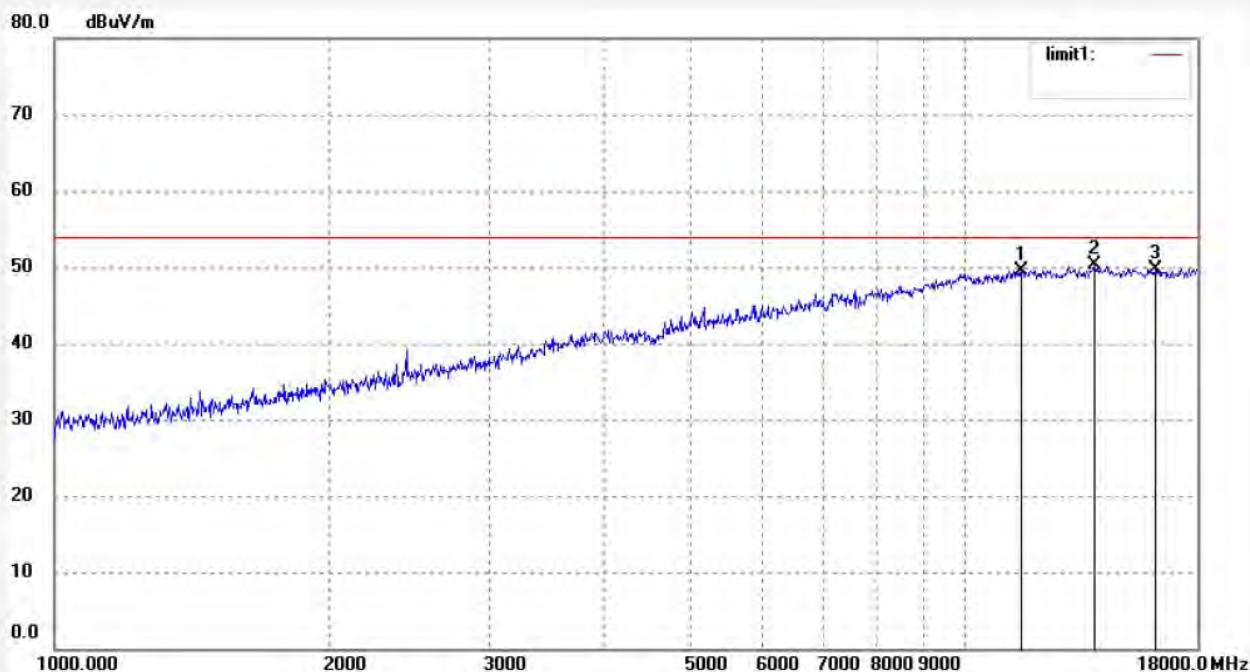
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2901	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 13/12/11/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 10/01/25
EUT: Novo10 Hero II User Manual	Engineer Signature:
Mode: TX 2437MHz(802.11b)	Distance: 3m
Model: Novo10 Hero II	
Manufacturer: Ainol	
Note: Report No:ATE20132549	



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11533.485	43.52	6.07	49.59	54.00	-4.41	peak			
2	13877.076	40.14	10.08	50.22	54.00	-3.78	peak			
3	16174.372	37.91	11.79	49.70	54.00	-4.30	peak			



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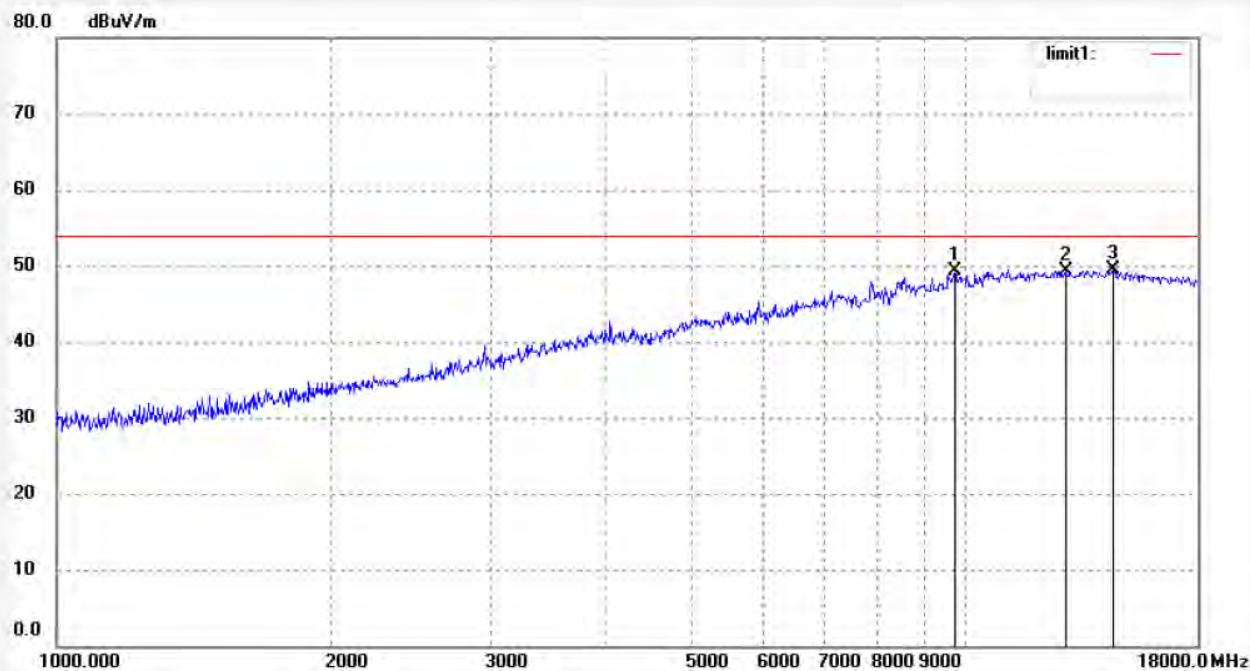
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	alen #2902	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	13/12/11/
Temp.( C)/Hum.(%)	25 C / 55 %	Time:	10/01/51
EUT:	Novo10 Hero II User Manual	Engineer Signature:	
Mode:	TX 2437MHz(802.11b)	Distance:	3m
Model:	Novo10 Hero II		
Manufacturer:	Ainol		

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	9725.221	44.24	5.03	49.27	54.00	-4.73	peak			
2	12872.441	41.68	7.72	49.40	54.00	-4.60	peak			
3	14533.906	36.67	12.92	49.59	54.00	-4.41	peak			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2904

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 10/04/12

EUT: Novo10 Hero II User Manual

Engineer Signature:

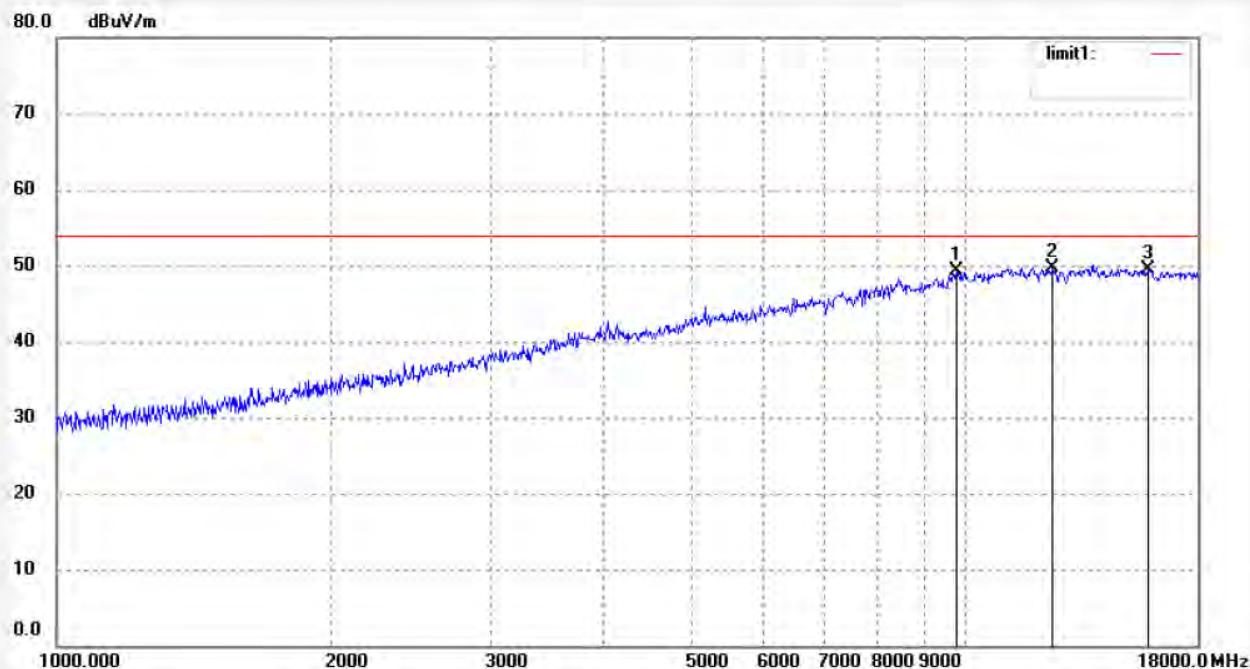
Mode: TX 2462MHz(802.11b)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	9753.371	44.19	5.06	49.25	54.00	-4.75	peak			
2	12469.611	42.54	7.12	49.66	54.00	-4.34	peak			
3	15850.410	38.11	11.48	49.59	54.00	-4.41	peak			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2903

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 10/03/29

EUT: Novo10 Hero II User Manual

Engineer Signature:

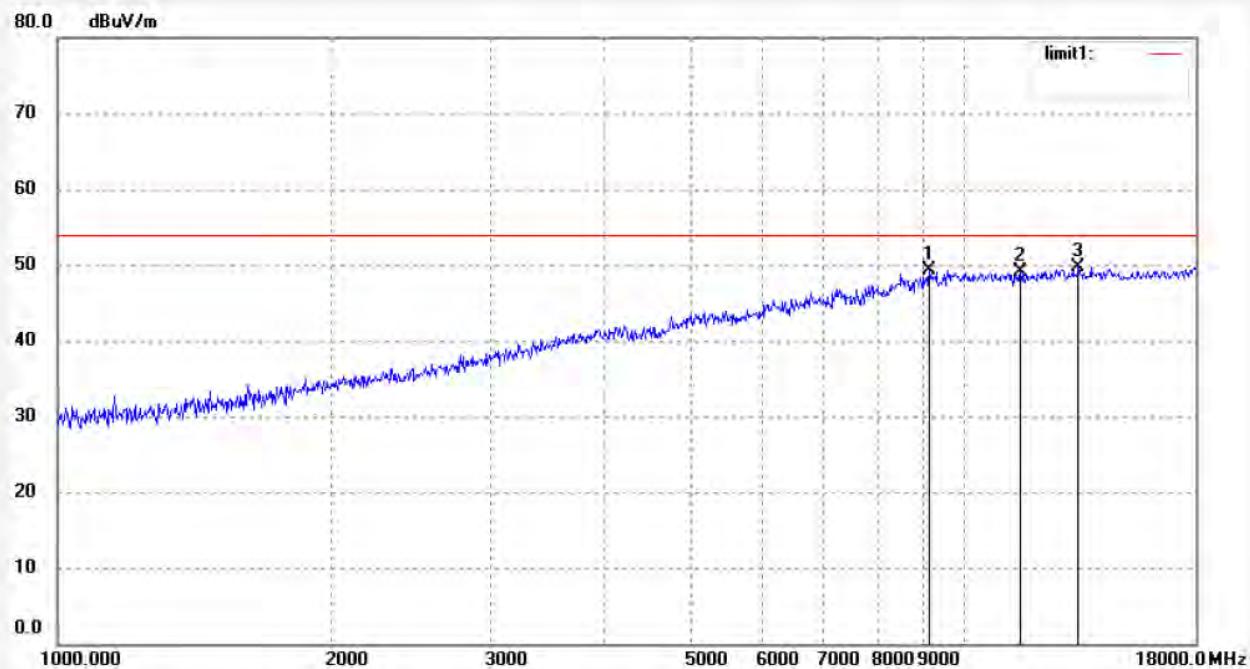
Mode: TX 2462MHz(802.11b)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	9152.479	45.47	3.88	49.35	54.00	-4.65	peak			
2	11533.485	42.94	6.07	49.01	54.00	-4.99	peak			
3	13365.322	41.06	8.74	49.80	54.00	-4.20	peak			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2909

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/45/26

EUT: Novo10 Hero II User Manual

Engineer Signature:

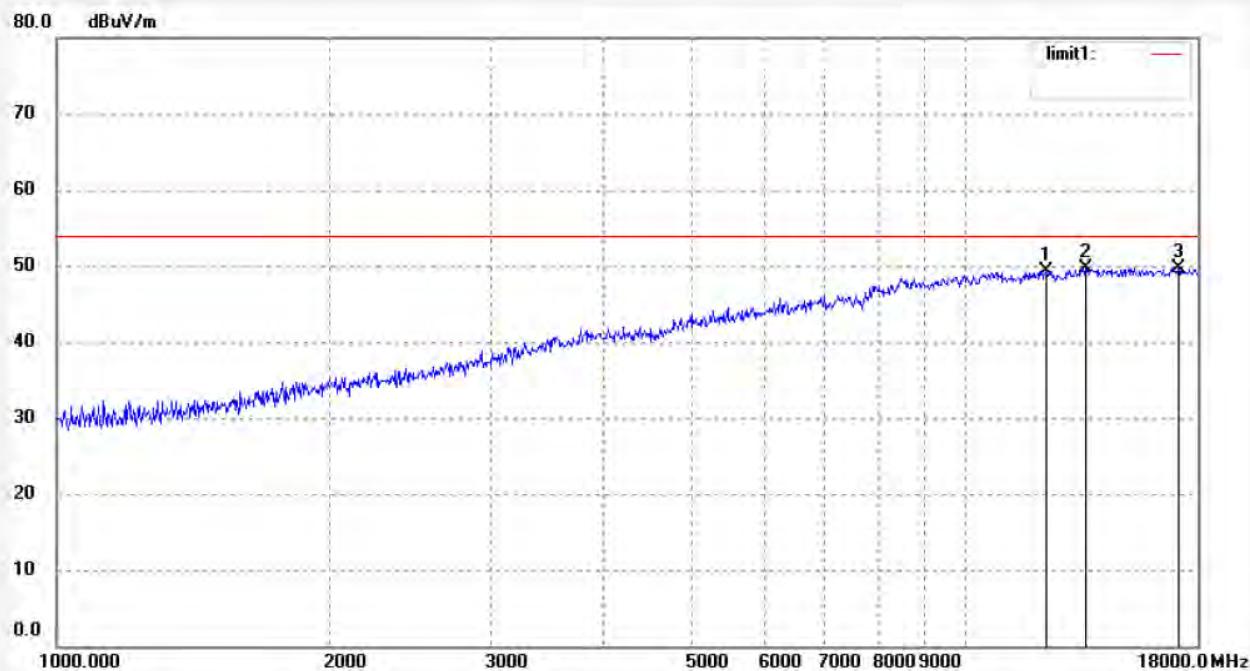
Mode: TX 2412MHz(802.11g)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12255.224	42.46	6.84	49.30	54.00	-4.70	peak			
2	13559.879	40.43	9.22	49.65	54.00	-4.35	peak			
3	17136.924	35.33	14.42	49.75	54.00	-4.25	peak			



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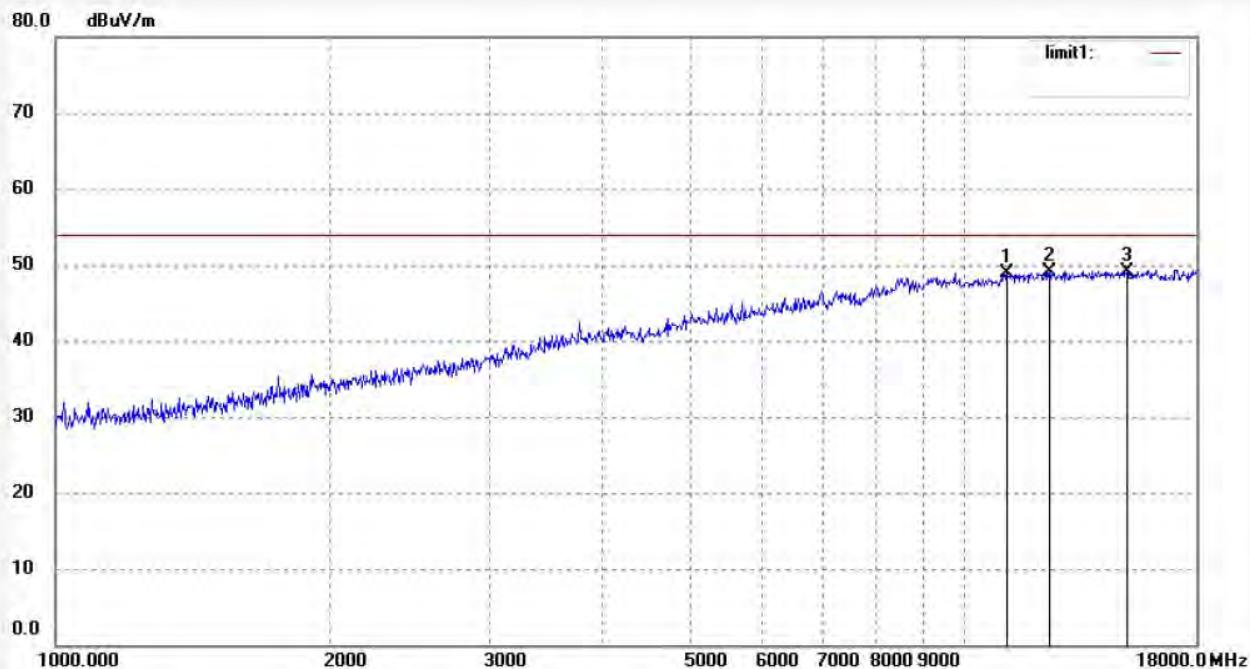
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	alen #2910	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	13/12/11/
Temp.( C)/Hum.(%)	25 C / 55 %	Time:	13/46/09
EUT:	Novo10 Hero II User Manual	Engineer Signature:	
Mode:	TX 2412MHz(802.11g)	Distance:	3m
Model:	Novo10 Hero II		
Manufacturer:	Ainol		
Note:	Report No:ATE20132549		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11140.310	43.23	5.65	48.88	54.00	-5.12	peak			
2	12397.735	42.07	7.02	49.09	54.00	-4.91	peak			
3	15090.405	37.33	11.76	49.09	54.00	-4.91	peak			



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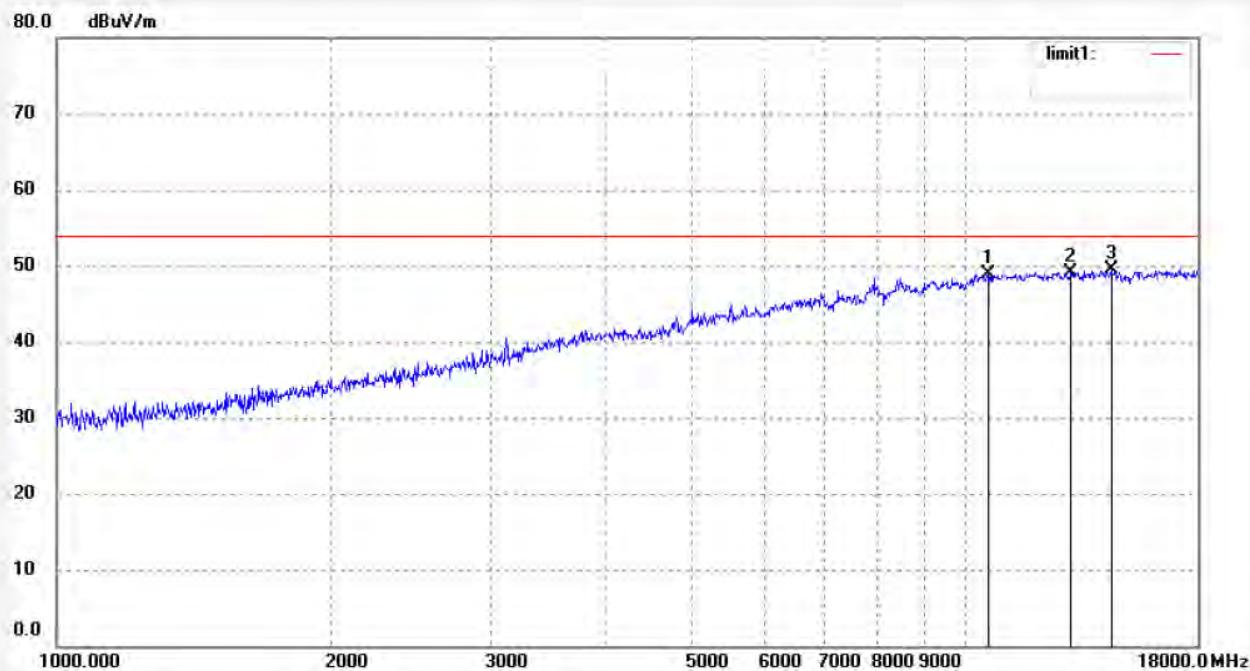
Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	alen #2908	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	13/12/11/
Temp.( C)/Hum.(%)	25 C / 55 %	Time:	13/44/37
EUT:	Novo10 Hero II User Manual	Engineer Signature:	
Mode:	TX 2437MHz(802.11g)	Distance:	3m
Model:	Novo10 Hero II		
Manufacturer:	Ainol		

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	10606.147	43.64	5.26	48.90	54.00	-5.10	peak			
2	13059.822	41.06	8.02	49.08	54.00	-4.92	peak			
3	14450.131	36.83	12.73	49.56	54.00	-4.44	peak			



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Fax:+86-0755-26503396

Job No.: alen #2907

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/43/49

EUT: Novo10 Hero II User Manual

Engineer Signature:

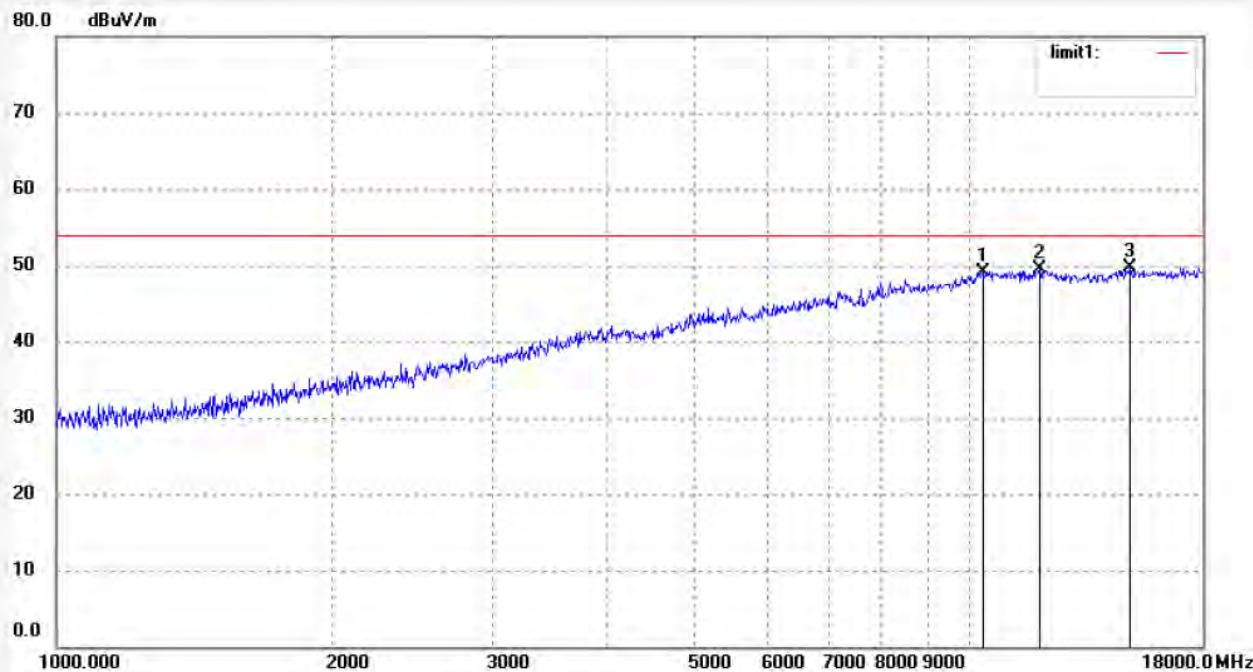
Mode: TX 2437MHz(802.11g)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	10333.803	43.88	5.26	49.14	54.00	-4.86	peak			
2	11940.536	43.01	6.43	49.44	54.00	-4.56	peak			
3	14960.120	37.77	11.98	49.75	54.00	-4.25	peak			



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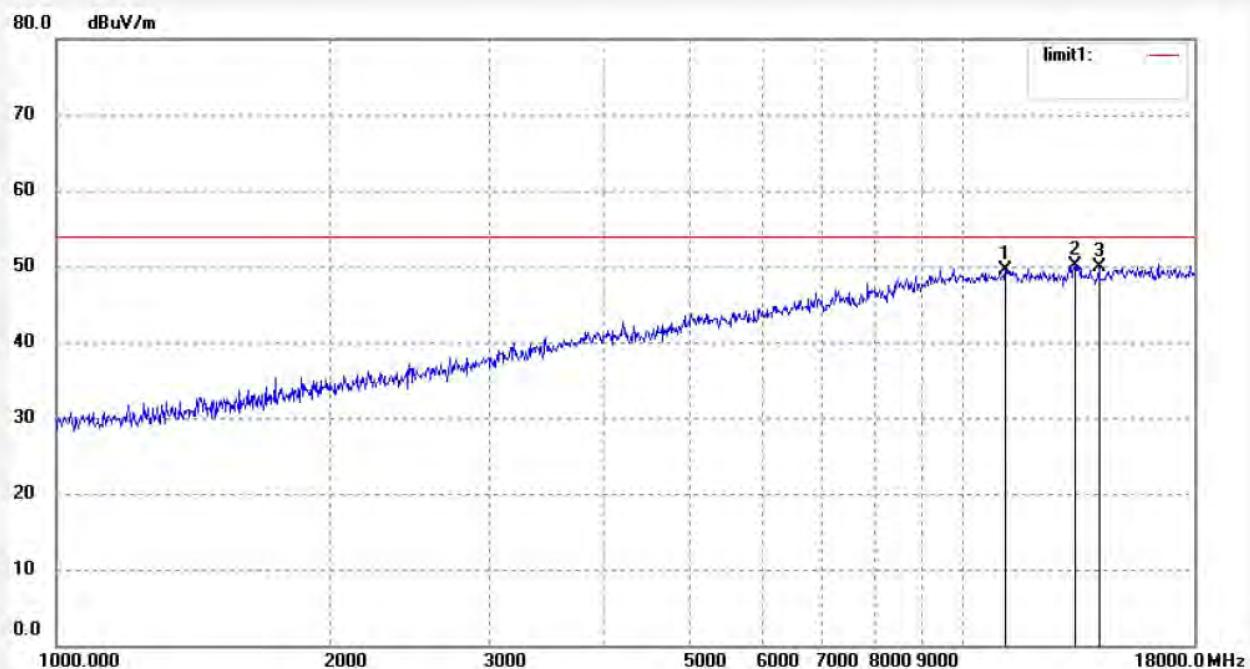
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: alen #2905  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 25 C / 55 %  
EUT: Novo10 Hero II User Manual  
Mode: TX 2462MHz(802.11g)  
Model: Novo10 Hero II  
Manufacturer: Ainol

Polarization: Horizontal  
Power Source: AC 120V/60Hz  
Date: 13/12/11/  
Time: 10/05/59  
Engineer Signature:  
Distance: 3m

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11140.310	43.84	5.65	49.49	54.00	-4.51	peak			
2	13288.284	41.56	8.56	50.12	54.00	-3.88	peak			
3	14119.835	38.90	11.02	49.92	54.00	-4.08	peak			



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

Job No.: alen #2906

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 10/06/33

EUT: Novo10 Hero II User Manual

Engineer Signature:

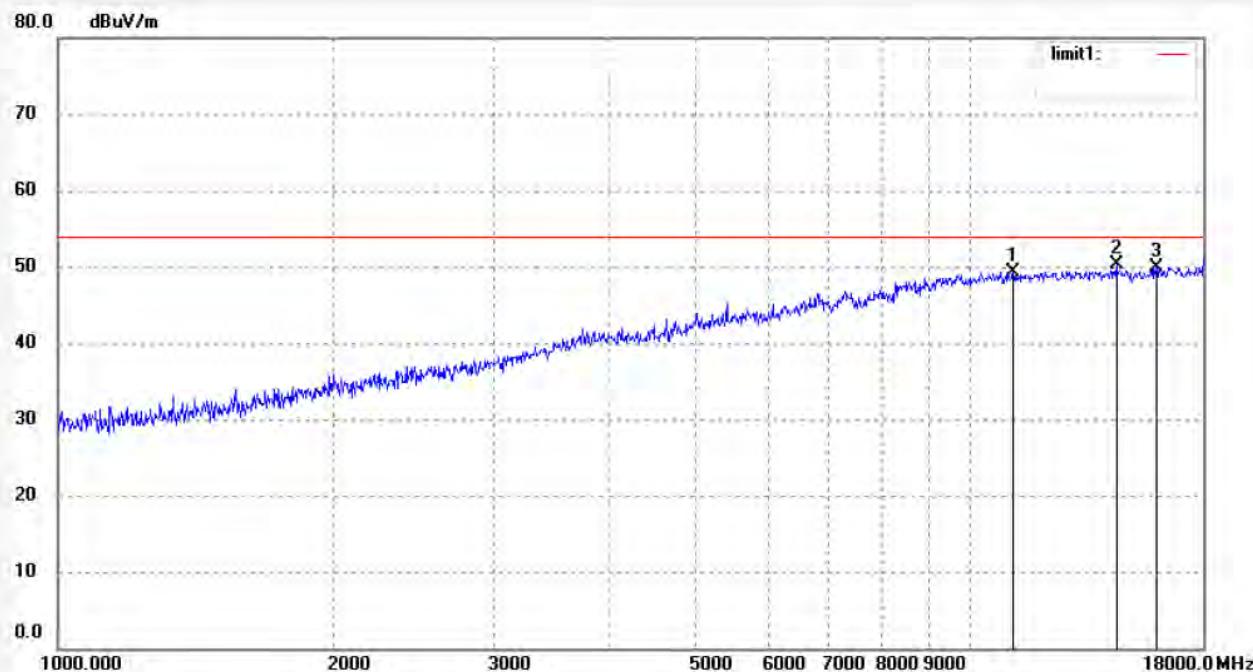
Mode: TX 2462MHz(802.11g)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11140.310	43.60	5.65	49.25	54.00	-4.75	peak			
2	14450.131	37.54	12.74	50.28	54.00	-3.72	peak			
3	15988.449	38.43	11.57	50.00	54.00	-4.00	peak			



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

Job No.: alen #2912

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/46/45

EUT: Novo10 Hero II User Manual

Engineer Signature:

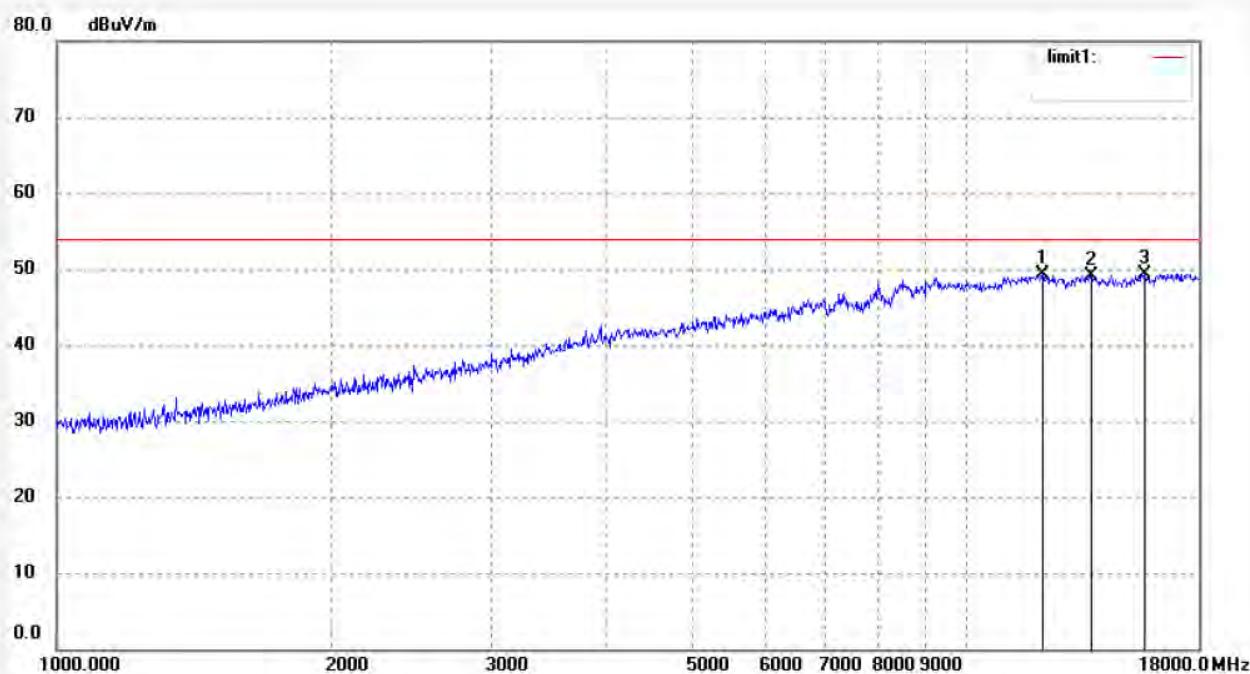
Mode: TX 2412MHz(802.11n20)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12114.352	42.58	6.65	49.23	54.00	-4.77	peak			
2	13717.561	39.49	9.66	49.15	54.00	-4.85	peak			
3	15713.564	38.00	11.40	49.40	54.00	-4.60	peak			



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

Job No.: alen #2911

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/46/45

EUT: Novo10 Hero II User Manual

Engineer Signature:

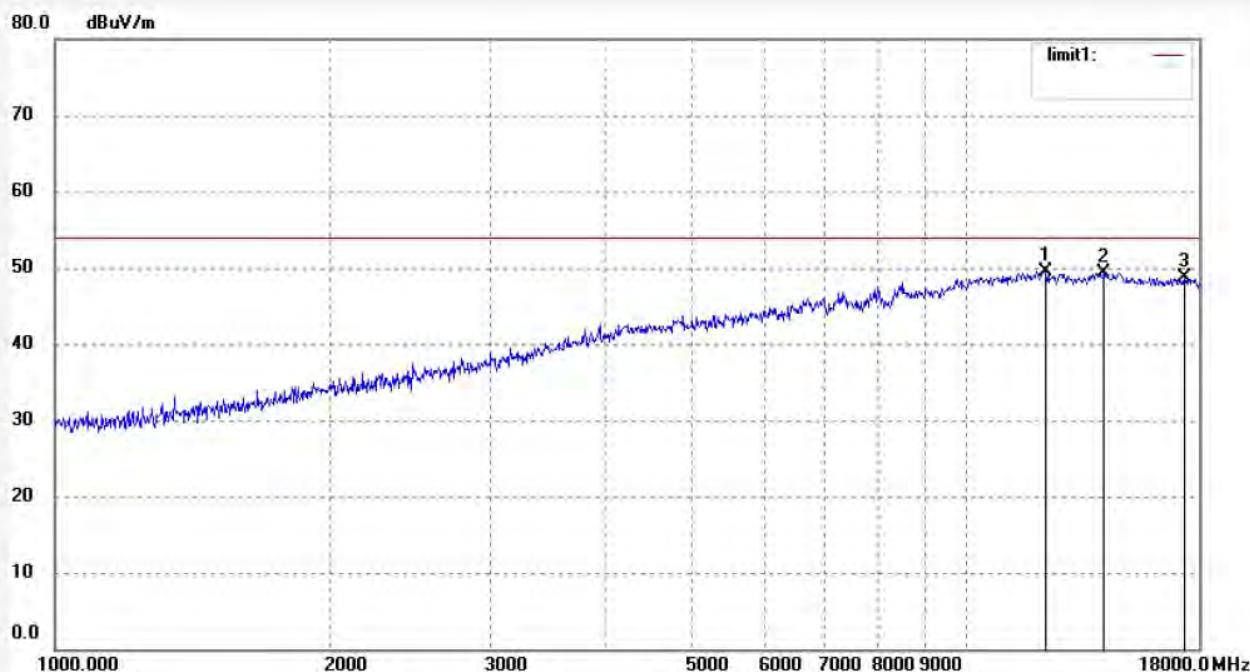
Mode: TX 2412MHz(802.11n20)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12219.853	42.69	6.79	49.48	54.00	-4.52	peak			
2	14160.705	38.11	11.24	49.35	54.00	-4.65	peak			
3	17336.202	33.37	15.33	48.70	54.00	-5.30	peak			



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Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2913

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/48/06

EUT: Novo10 Hero II User Manual

Engineer Signature:

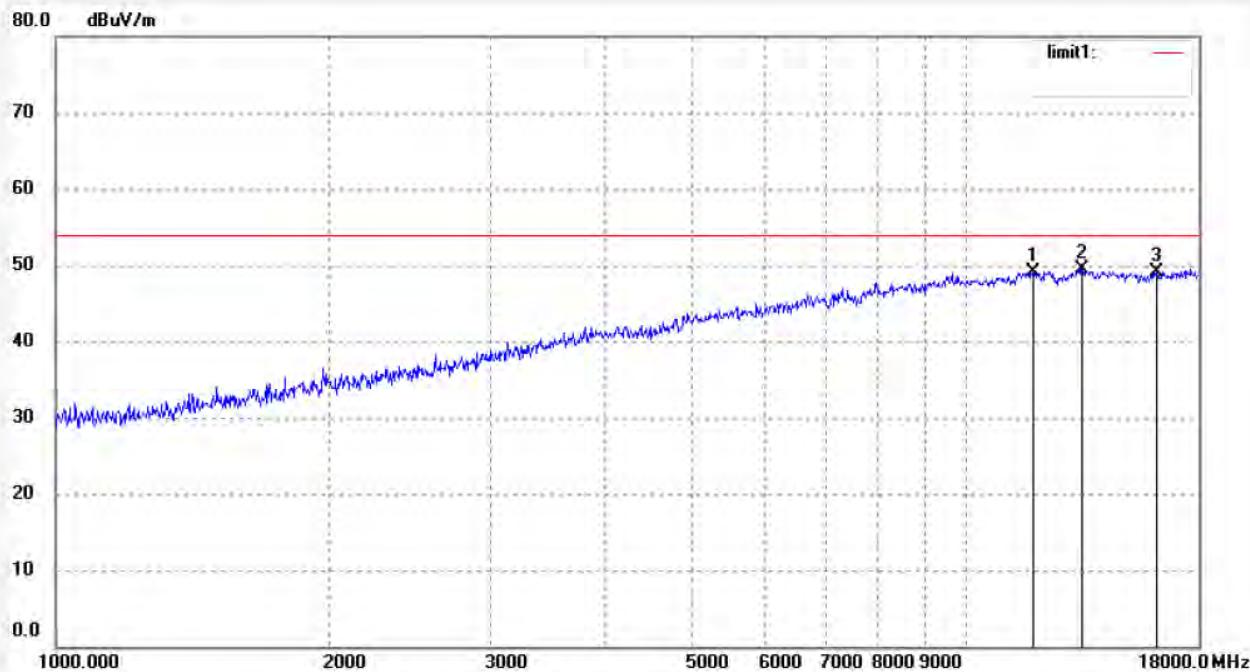
Mode: TX 2437MHz(802.11n20)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11837.445	42.83	6.34	49.17	54.00	-4.83	peak			
2	13404.009	40.71	8.82	49.53	54.00	-4.47	peak			
3	16174.372	37.35	11.79	49.14	54.00	-4.86	peak			



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Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2914

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/49/07

EUT: Novo10 Hero II User Manual

Engineer Signature:

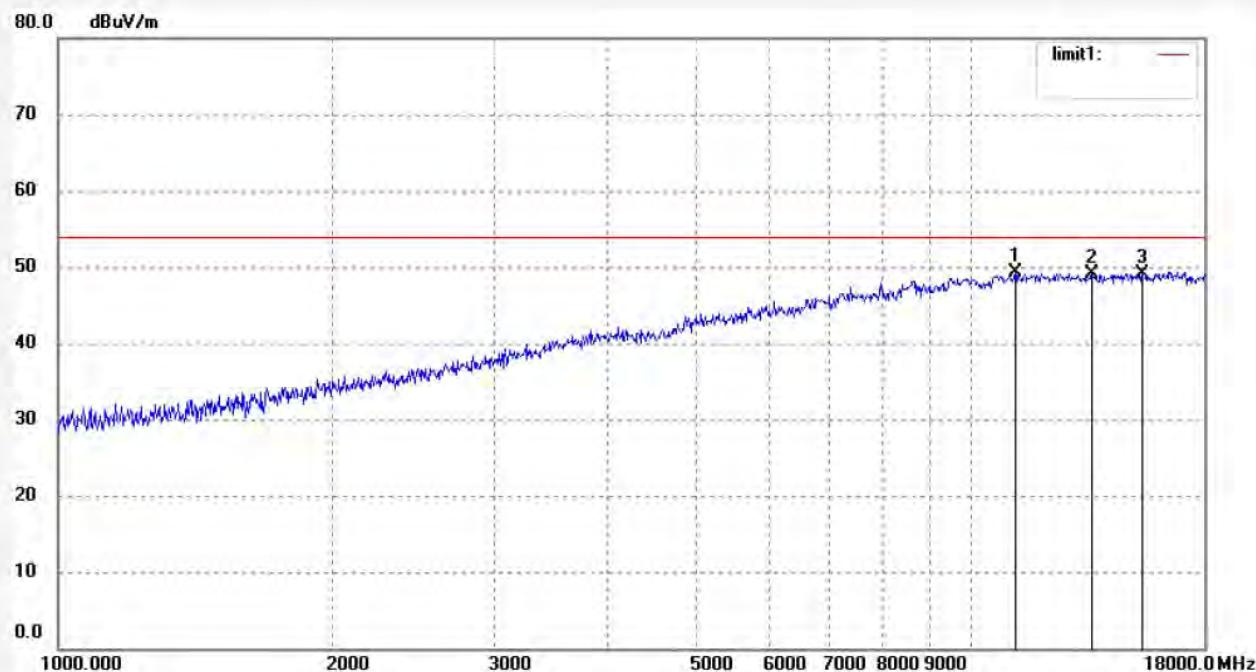
Mode: TX 2437MHz(802.11n20)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11172.556	43.53	5.69	49.22	54.00	-4.78	peak			
2	13559.879	39.87	9.22	49.09	54.00	-4.91	peak			
3	15398.832	37.69	11.38	49.07	54.00	-4.93	peak			



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Job No.: alen #2916

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/50/22

EUT: Novo10 Hero II User Manual

Engineer Signature:

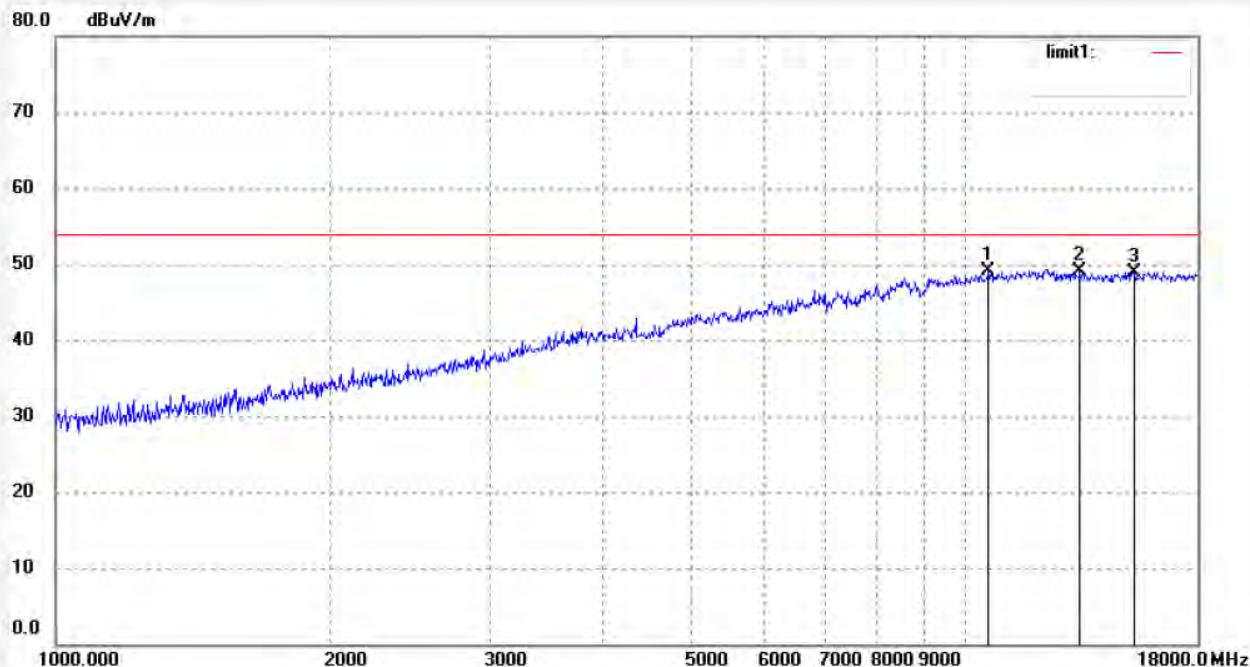
Mode: TX 2462MHz(802.11n20)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	10606.147	43.78	5.26	49.04	54.00	-4.96	peak			
2	13365.322	40.37	8.74	49.11	54.00	-4.89	peak			
3	15354.388	37.45	11.43	48.88	54.00	-5.12	peak			



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

Job No.: alen #2915

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13:49:41

EUT: Novo10 Hero II User Manual

Engineer Signature:

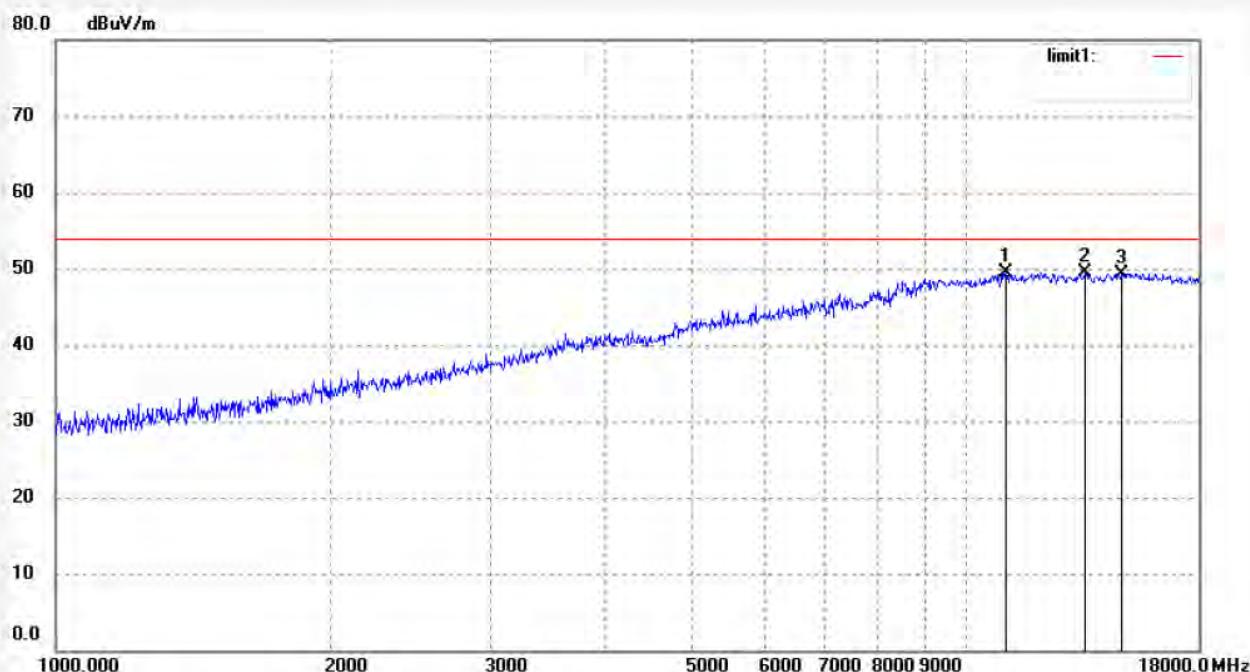
Mode: TX 2462MHz(802.11n20)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11044.129	43.94	5.55	49.49	54.00	-4.51	peak			
2	13481.719	40.48	9.01	49.49	54.00	-4.51	peak			
3	14788.154	37.03	12.36	49.39	54.00	-4.61	peak			



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

Job No.: alen #2921

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/54/04

EUT: Novo10 Hero II User Manual

Engineer Signature:

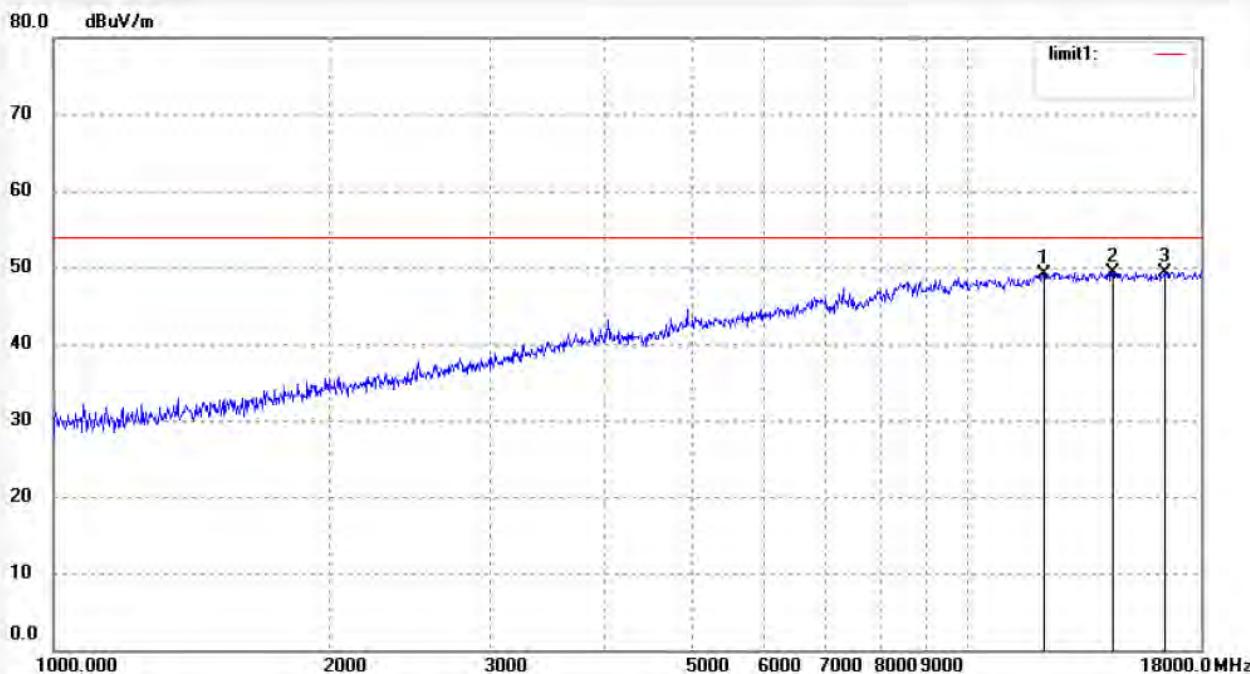
Mode: TX 2422MHz(802.11n40)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	12114.352	42.42	6.65	49.07	54.00	-4.93	peak			
2	14408.425	36.79	12.53	49.32	54.00	-4.68	peak			
3	16409.819	37.34	12.06	49.40	54.00	-4.60	peak			



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

Job No.: alen #2922

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/54/46

EUT: Novo10 Hero II User Manual

Engineer Signature:

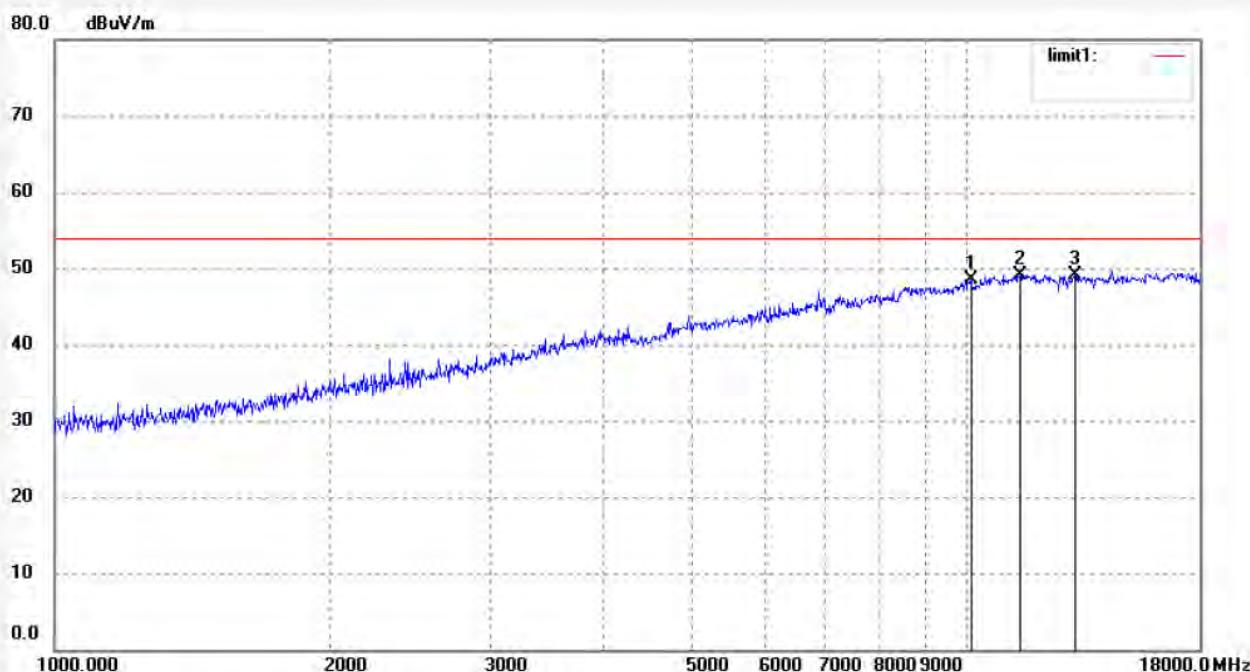
Mode: TX 2422MHz(802.11n40)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	10097.596	43.17	5.35	48.52	54.00	-5.48	peak			
2	11433.909	43.12	5.97	49.09	54.00	-4.91	peak			
3	13135.536	40.85	8.19	49.04	54.00	-4.96	peak			



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Fax:+86-0755-26503396

Job No.: alen #2920

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/53/16

EUT: Novo10 Hero II User Manual

Engineer Signature:

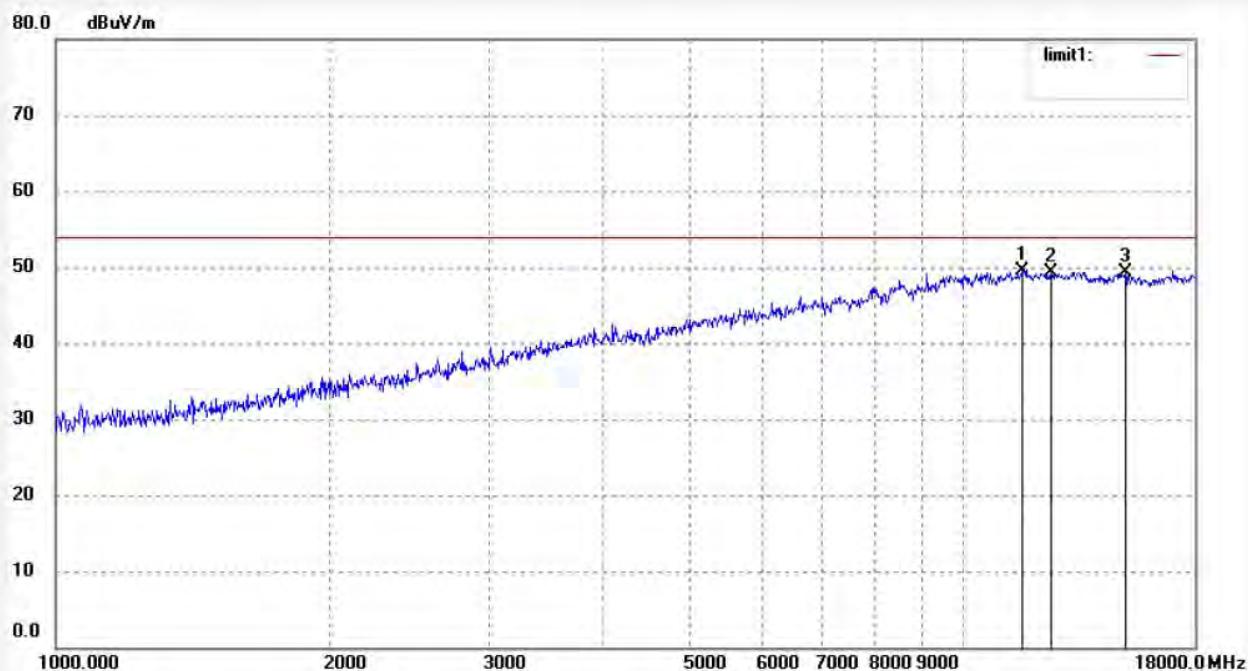
Mode: TX 2437MHz(802.11n40)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11633.928	43.44	6.16	49.60	54.00	-4.40	peak			
2	12505.705	42.24	7.16	49.40	54.00	-4.60	peak			
3	15090.405	37.47	11.76	49.23	54.00	-4.77	peak			



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Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2919

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/52/39

EUT: Novo10 Hero II User Manual

Engineer Signature:

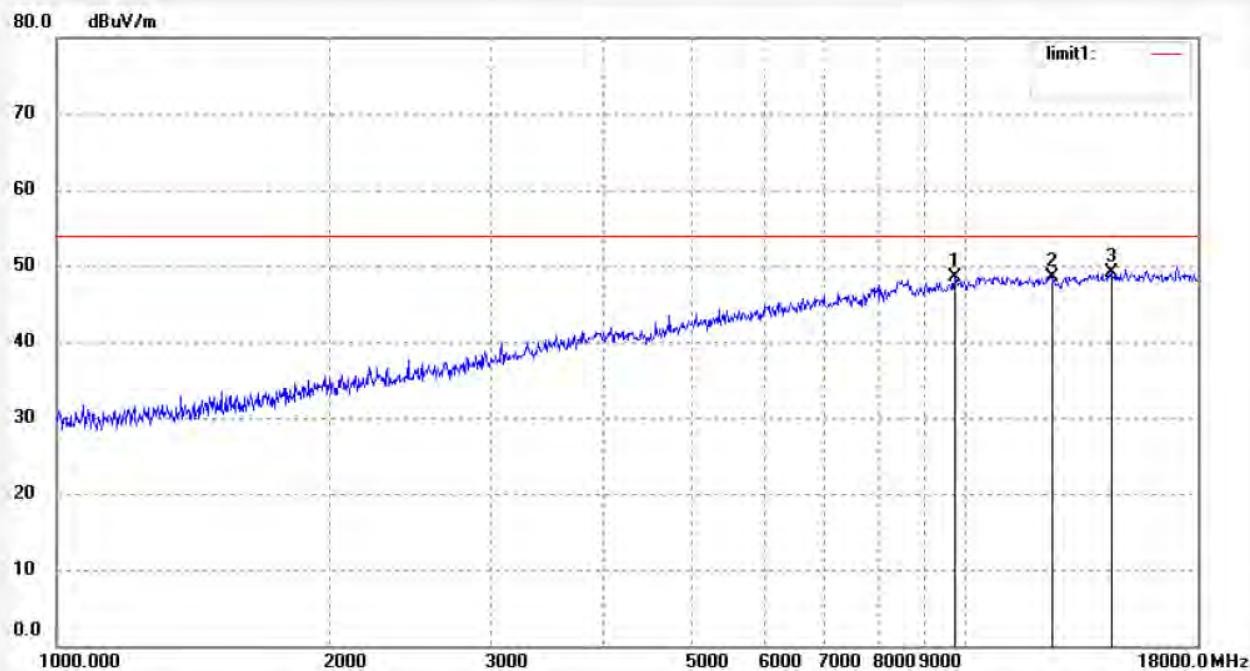
Mode: TX 2437MHz(802.11n40)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	9725.221	43.53	5.03	48.56	54.00	-5.44	peak			
2	12433.621	41.42	7.06	48.48	54.00	-5.52	peak			
3	14450.131	36.39	12.74	49.13	54.00	-4.87	peak			



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Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2917

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/51/15

EUT: Novo10 Hero II User Manual

Engineer Signature:

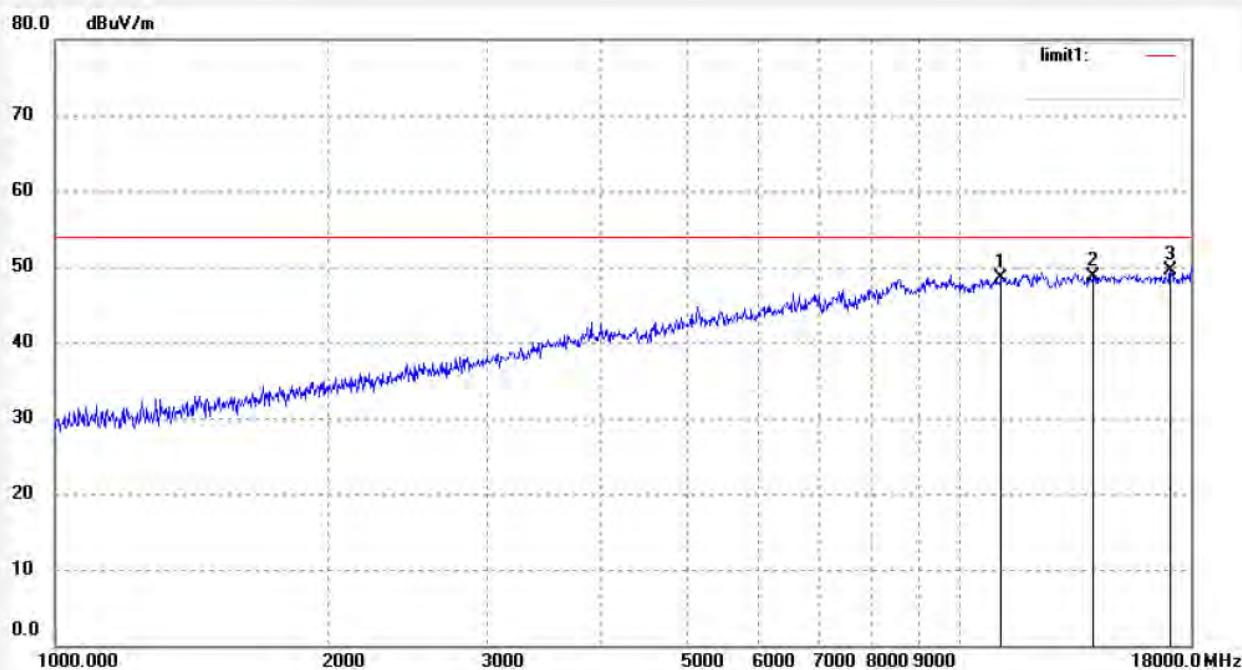
Mode: TX 2452MHz(802.11n40)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	11108.157	42.96	5.62	48.58	54.00	-5.42	peak			
2	14038.447	38.17	10.61	48.78	54.00	-5.22	peak			
3	17087.464	35.29	14.19	49.48	54.00	-4.52	peak			



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Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: alen #2918

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 13/12/11/

Temp.( C)/Hum.(%) 25 C / 55 %

Time: 13/52/00

EUT: Novo10 Hero II User Manual

Engineer Signature:

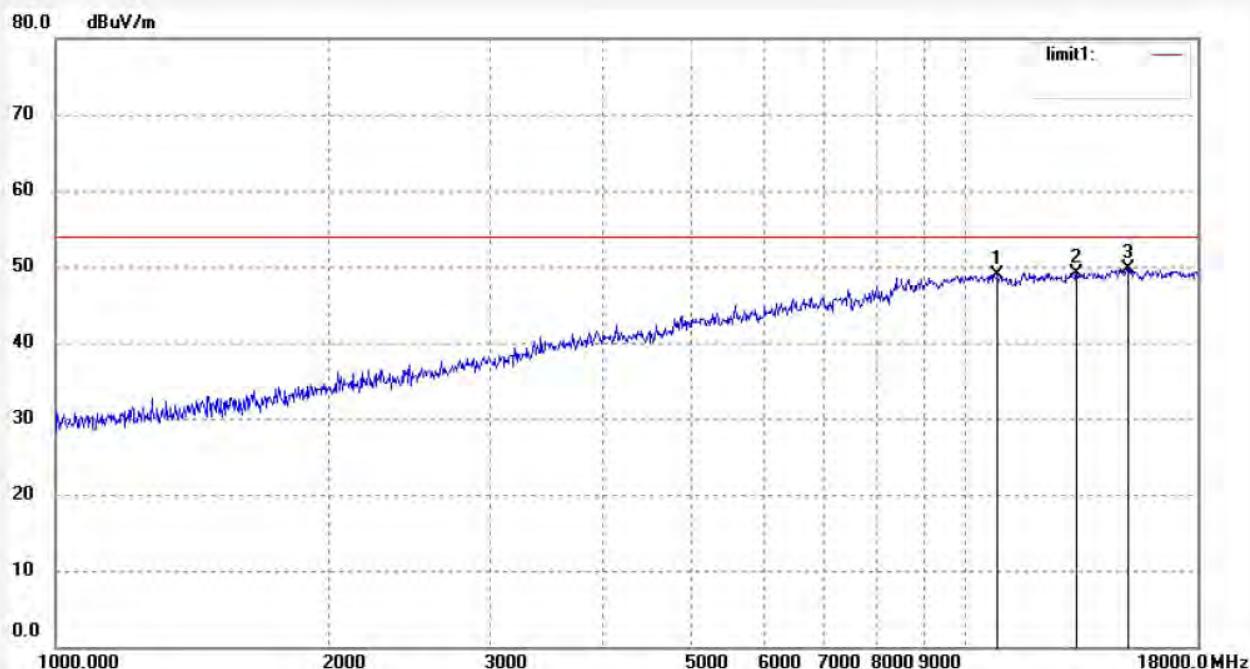
Mode: TX 2452MHz(802.11n40)

Distance: 3m

Model: Novo10 Hero II

Manufacturer: Ainol

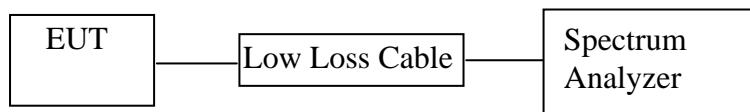
Note: Report No:ATE20132549



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	10854.250	43.47	5.41	48.88	54.00	-5.12	peak			
2	13249.931	40.73	8.46	49.19	54.00	-4.81	peak			
3	15090.405	37.93	11.76	49.69	54.00	-4.31	peak			

## 11.CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

### 11.1.Block Diagram of Test Setup



### 11.2.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).

### 11.3.EUT Configuration on Measurement

The 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.

### 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 modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

### 11.5. Test Procedure

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

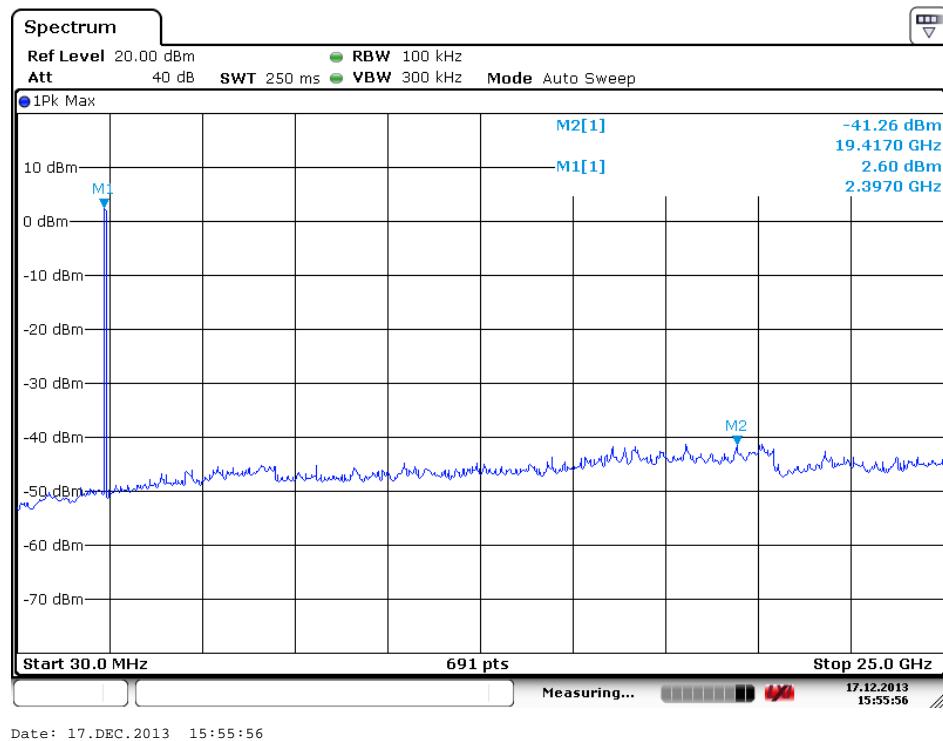
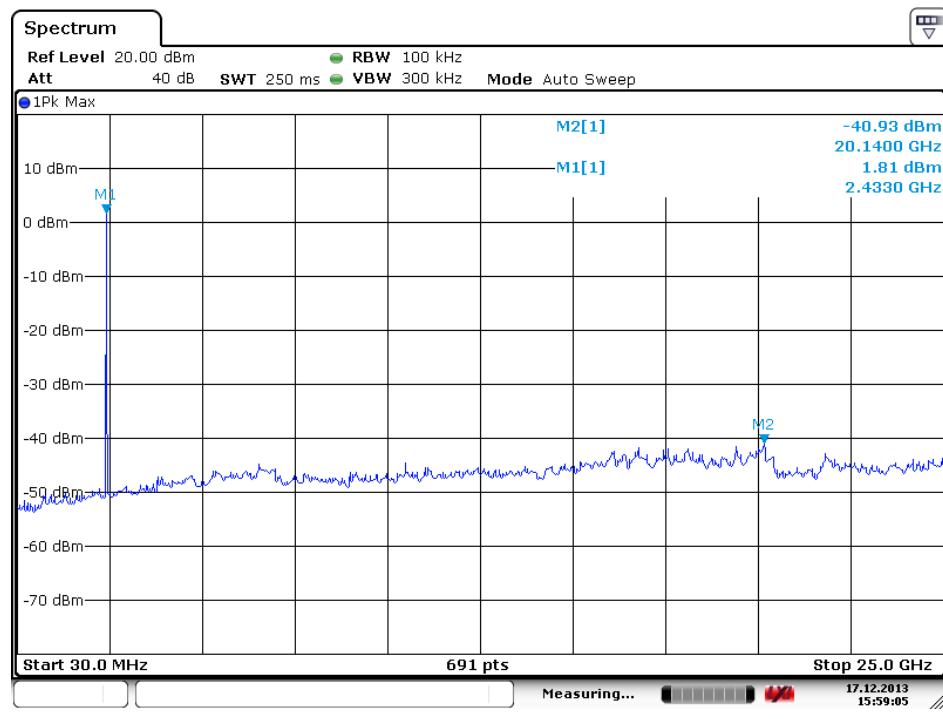
11.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

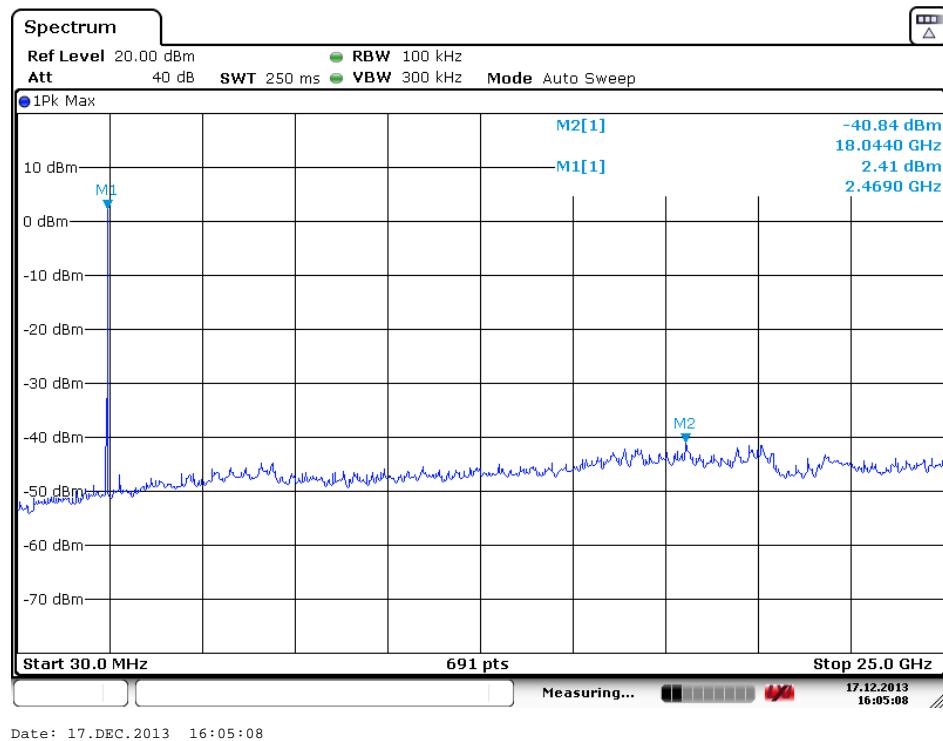
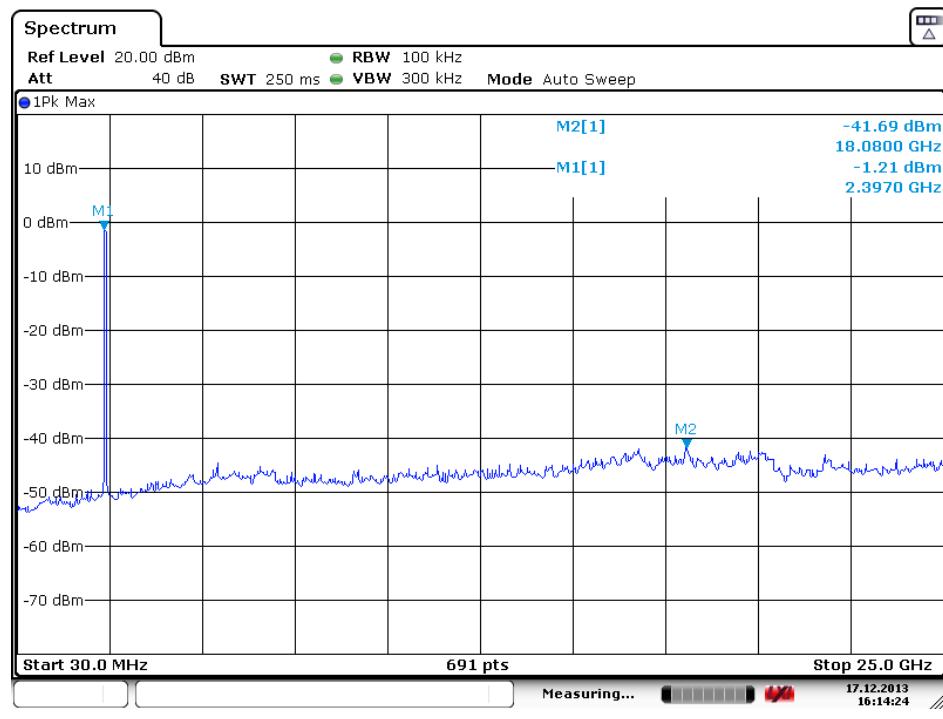
11.5.3. The Conducted Spurious Emission was measured and recorded.

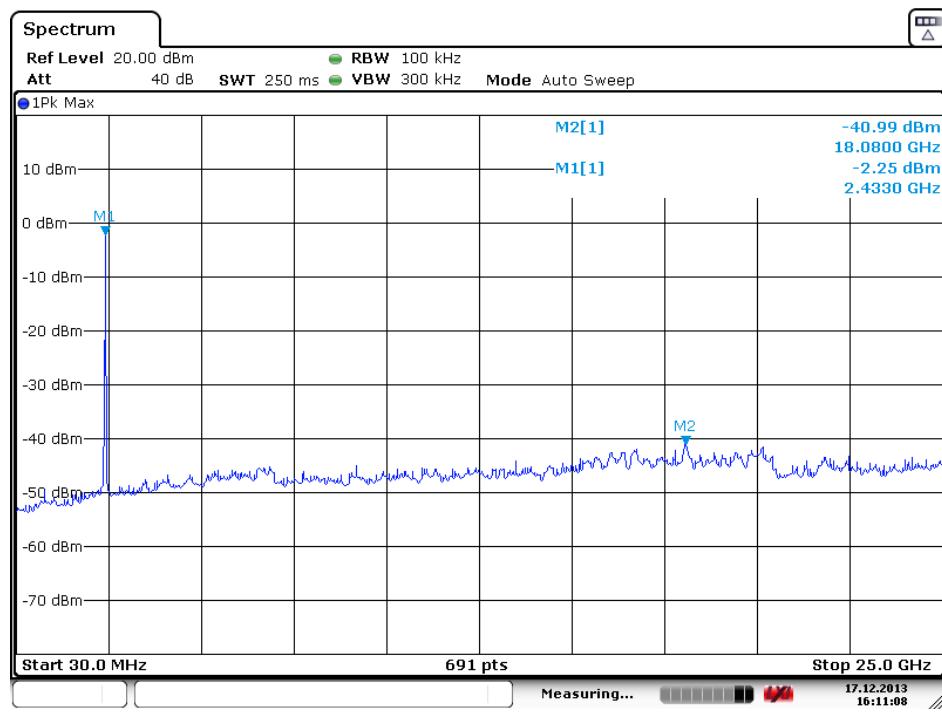
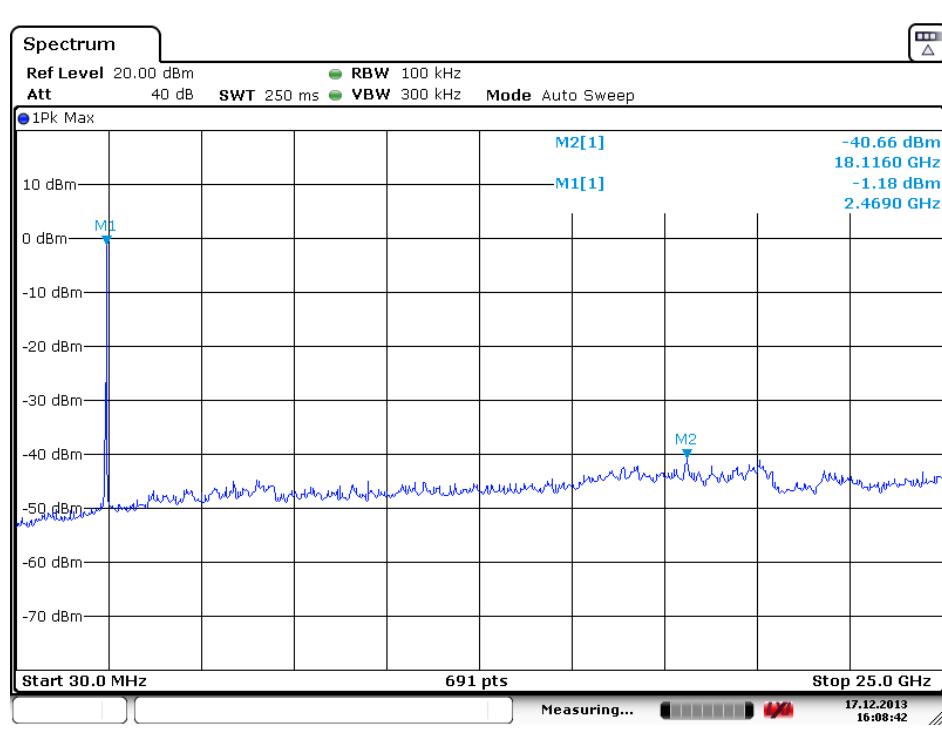
### 11.6. Test Result

**Pass.**

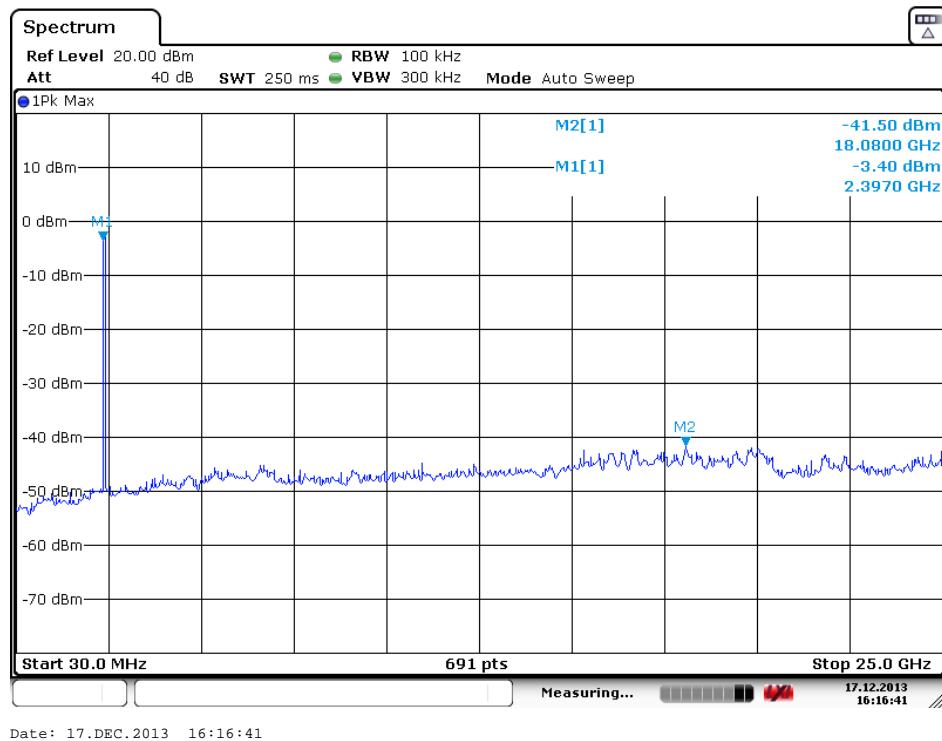
The spectrum analyzer plots are attached as below.

**TX 802.11b Channel Low 2412MHz****TX 802.11b Channel Middle 2437MHz**

**TX 802.11b Channel High 2462MHz****TX 802.11g Channel Low 2412MHz**

**TX 802.11g Channel Middle 2437MHz****TX 802.11g Channel High 2462MHz**

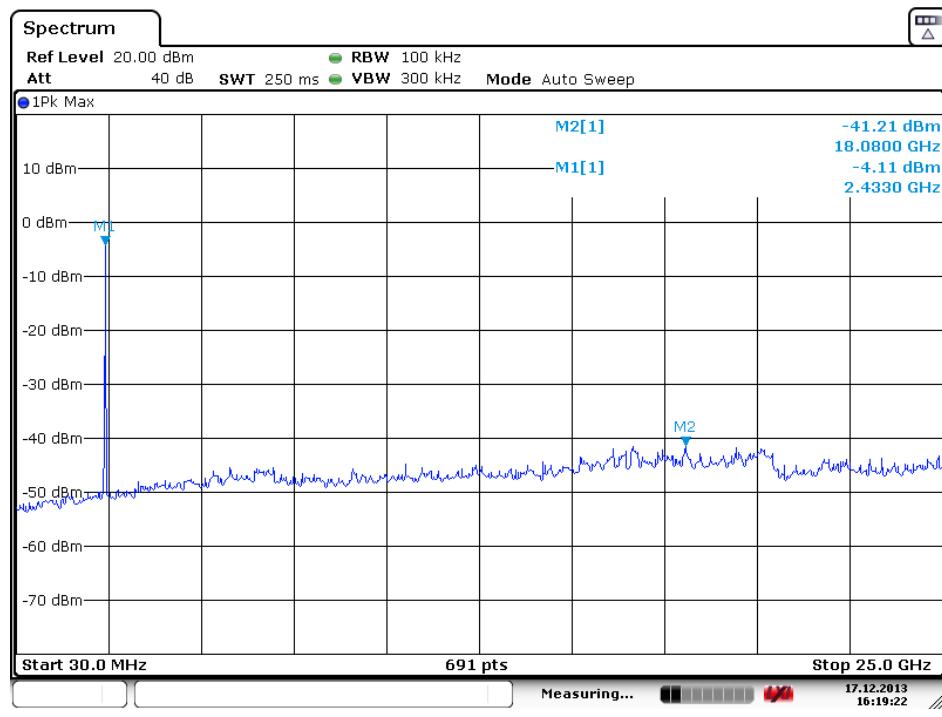
## TX 802.11n Channel Low 2412MHz (20MHz)



Date: 17.DEC.2013 16:16:41

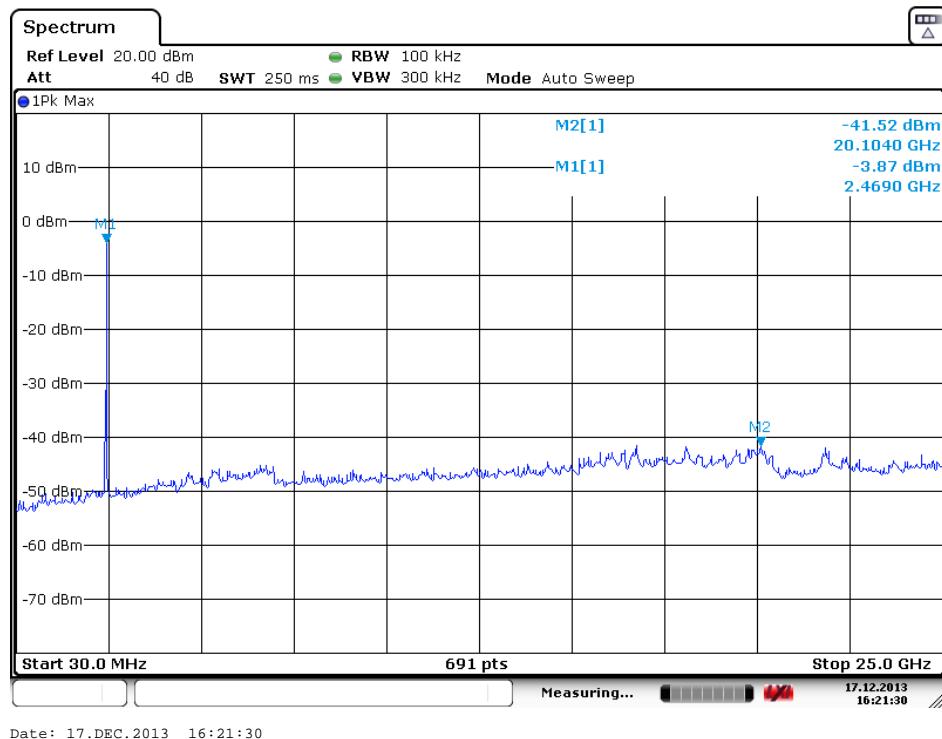
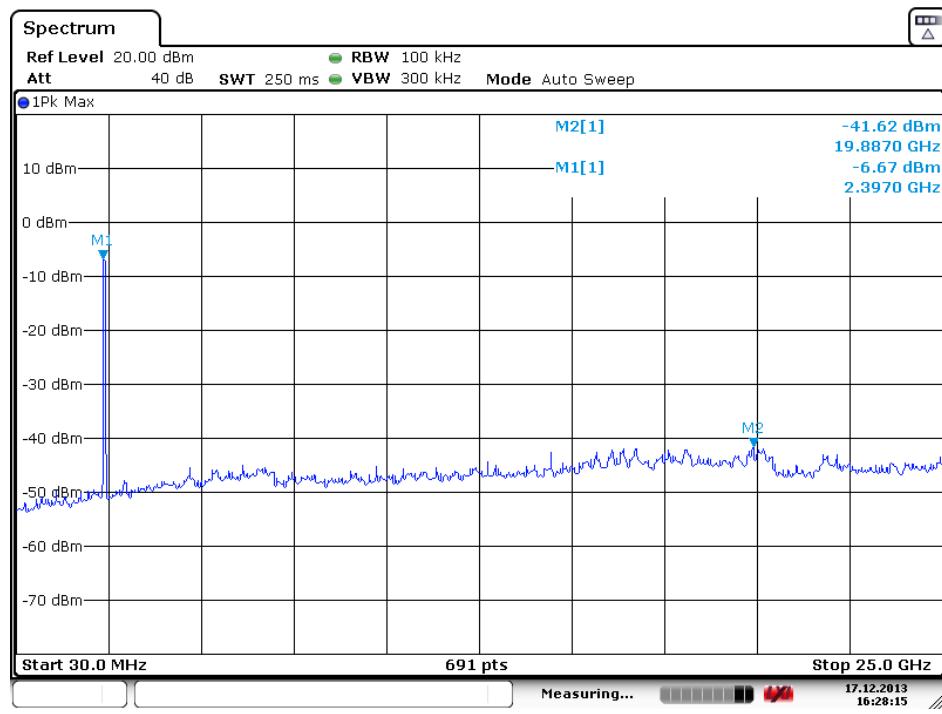
17.12.2013  
16:16:41

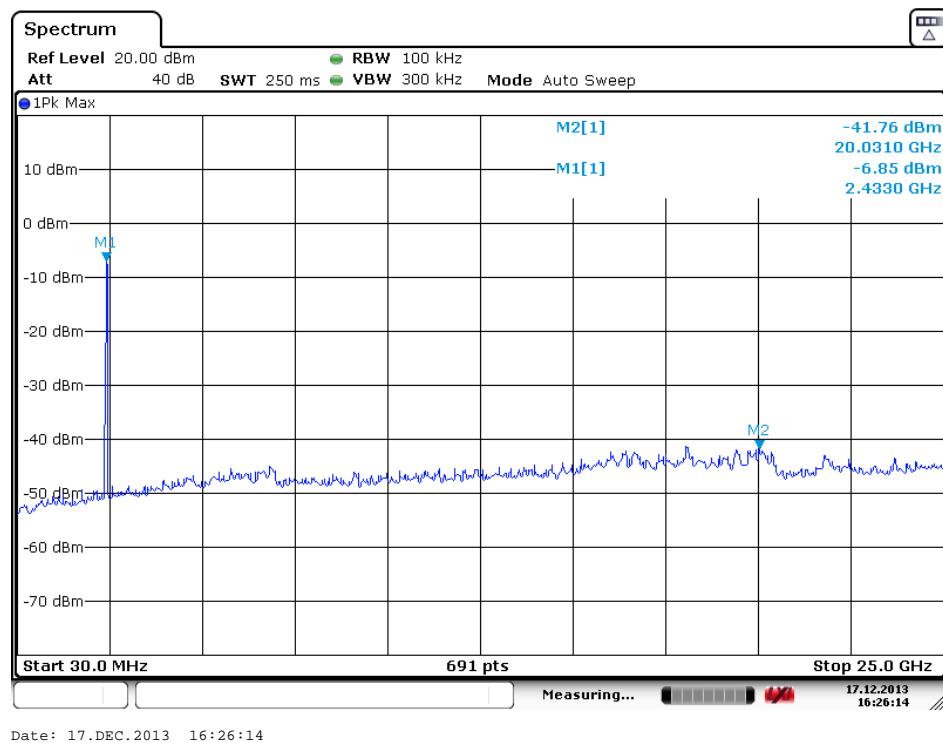
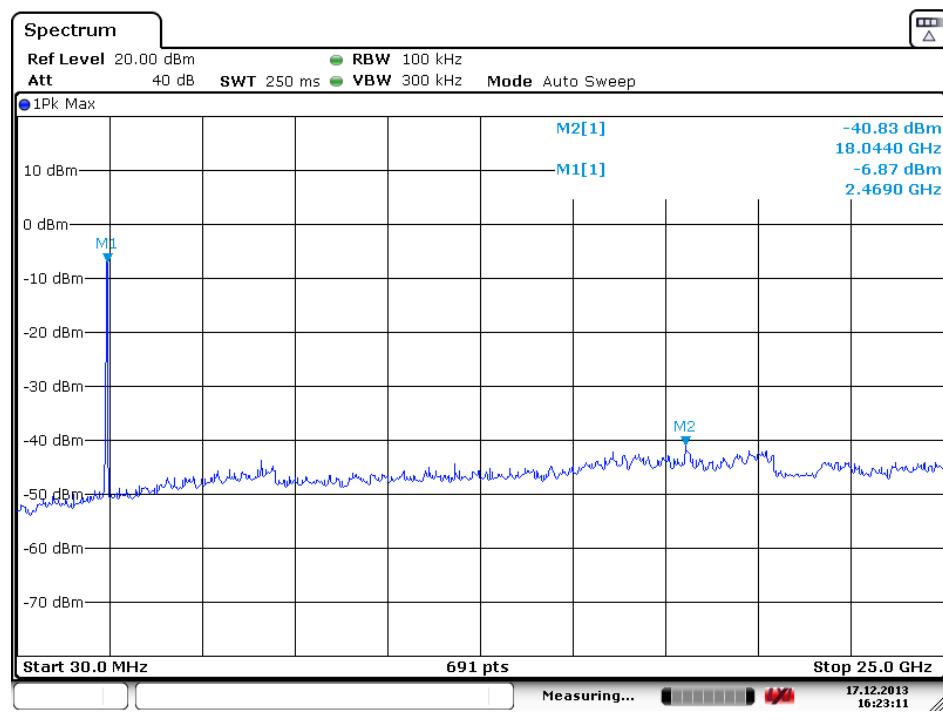
## TX 802.11n Channel Middle 2437MHz (20MHz)



Date: 17.DEC.2013 16:19:22

17.12.2013  
16:19:22

**TX 802.11n Channel High 2462MHz (20MHz)****TX 802.11n Channel Low 2422MHz (40MHz)**

**TX 802.11n Channel Middle 2437MHz (40MHz)****TX 802.11n Channel High 2452MHz (40MHz)**

## 12. ANTENNA REQUIREMENT

### 12.1. The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### 12.2. Antenna Construction

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

