

**FCC TEST REPORT**  
**for**  
**Wireless 5.1CH Home Theater Speaker System**  
**Model No.: WHT-510**

of

Applicant: MEILOON INDUSTRIAL CO., LTD.  
Address: No.77, Lane 1775, Chuen-Ryh Road, Taoyuan City, Taiwan,

Tested and Prepared  
by



**ETS Product Service (Taiwan) Co., Ltd.**

**FCC Registration No.: 930600**

**Industry Canada filed test laboratory Reg. No. IC 5679**

**A2LA Accredited No.: 2300.01**

**PTCRB Accredited Type Certification Test House**

**FCC ID: R48WHT510**

**Report No.: W6M20705-8142-C-1**

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.  
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: ets@ets-bzt.com.tw

Registration number: W6M20705-8142-C-1  
FCC ID: R48WHT510

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## 1 General Information

### 1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has Passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

The test results of this test report relate exclusively to the item tested as specified in 1.5.

The test report may only be reproduced or published in full.

Reproduction or publication of extracts from the report requires the prior written approval of the ETS Product Service (Taiwan) Co., Ltd.

Specific Conditions:

Usage of the hereunder tested device in combination with other integrated or external antennas requires at least additional output power measurements, spurious emission measurements, conducted emission measurements (AC supply lines) and radio frequency exposure evaluations for each individual configuration performed, for certification by FCC.

This report is related to FCC Part 15 C (DSSS device).

### Tester:

June 14, 2007

Jay Chaing



Date

ETS-Lab.

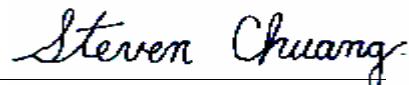
Name

Signature

### Technical responsibility for area of testing:

June 14, 2007

Steven Chuang



Date

ETS

Name

Signature

Registration number: W6M20705-8142-C-1

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## **1.2 Testing laboratory**

### **1.2.1 Location**

OATS

No.5-1, Shuang Sing Village,  
LiShuei Rd., Wanli Township,  
Taipei County 207, Taiwan (R.O.C.)

Company

ETS Product Service (Taiwan) Co., Ltd.  
6F, NO. 58, LANE 188, RUEY-KUANG RD.  
NEIHU, TAIPEI 114, TAIWAN R.O.C.  
Tel : 886-2-66068877  
Fax : 886-2-66068879

### **1.2.2 Details of accreditation status**

**Accredited testing laboratory**

**A2LA accredited number: 2300.01**

**FCC filed test laboratory Reg. No. 930600**

**Industry Canada filed test laboratory Reg. No. IC 5679**

**PTCRB Accredited Type Certification Test House**

## **1.3 Details of approval holder**

Name	: MEILOON INDUSTRIAL CO., LTD.
Street	: No.77, Lane 1775, Chuen-Ryh Road
Town	: Taoyuan City
Country	: Taiwan
Telephone	: +886-3-326-1611
Fax	: +886-3-326-3884

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#### 1.4 Application details

Date of receipt of test item : June 04, 2007  
Date of test : from June 04, 2007 to June 14, 2007

#### 1.5 General information of Test item

Type of test item : Wireless 5.1CH Home Theater Speaker System  
Model Number : WHT-510  
Brand Name : Soundon  
Hardware : MEGA-TX\_A0  
Software : SoundonTx\_CCA\_EQ\_02a  
Multi-listing model number : without  
Photos : see Appendix

#### Technical data

Frequency band : 2.4 GHz – 2.4835 GHz  
Frequency ( ch 1 or A) : 2.412 GHz  
Frequency ( ch 6 or B) : 2.437 GHZ  
Frequency ( ch 11 or C) : 2.462 GHz  
Number of Channels : 11  
Operation modes : Simplex  
Modulation Type : DSSS

Fixed point-to-point operation:  Yes /  No  
Type of Antenna : Omni directional Antenna  
Antenna gain : 2.06 dBi  
  
Power supply : 110 VAC, 60 Hz  
  
Emission designator : 18M2G1D

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Host device: none

Classification :

Fixed Device	<input checked="" type="checkbox"/>
Mobile Device (Human Body distance > 20cm)	<input type="checkbox"/>
Portable Device (Human Body distance < 20cm)	<input type="checkbox"/>

**Transmitter**      **Unom**

**Power ( ch 1 or A)** : Conducted: 22.99 dBm  
**Power ( ch 6 or B)** : Conducted: 23.60 dBm  
**Power ( ch 11 or C)** : Conducted: 23.38 dBm

**Manufacturer:**

(if applicable)

Name : ./.  
Street : ./.  
Town : ./.  
Country : ./.

Additional information: ./.

## 1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART B / SUBPART C § 15.247 (2006-08)

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## 2 Technical test

## 2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed.

or

The deviations as specified in 2.5 were ascertained in the course of the tests performed.

□

## 2.2 Test environment

Temperature : 23 °C

Relative humidity content : 20 ... 75 %

Air pressure :86 ... 103 kPa

Power supply      Output      : 110 VAC, 60 Hz

Extreme conditions parameters : --

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## 2.3 Test Equipment List

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2006/10/16	2007/10/15
ETSTW-CE 002	PREREULATOR MODE DC POWER SUPPLY	None	None		Function Test	
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2006/10/16	2007/10/15
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2006/10/16	2007/10/15
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	In House Certificate	
ETSTW-CE 008	ABSORBING CLAMP	MDS 21	3469	Schwarzbeck	2005/10/24	2007/10/23
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2006/8/17	2007/8/16
ETSTW-CE 013	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T4-02	20242	FCC	2005/12/8	2007/12/7
ETSTW-CE 014	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T2-02	20241	FCC	2005/12/7	2007/12/6
ETSTW-CE 015	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T8-02	20307	FCC	2006/11/7	2008/11/6
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2006/11/21	2007/11/20
ETSTW-RE 002	Function Generator	33220A	MY43004982	Agilent	2005/10/14	2007/10/13
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2006/10/20	2007/10/19
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2006/10/30	2007/10/29
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2006/10/12	2007/10/11
ETSTW-RE 010	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070181	MOTECH	Function Test	
ETSTW-RE 011	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070165	MOTECH	Function Test	
ETSTW-RE 017	Log-Periodic Antenna	HL025	352886/001	R&S	2006/5/4	2008/5/3
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2004/11/8	2007/11/7
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2006/10/11	2007/10/10
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	EMCO	2004/6/30	2007/6/29
ETSTW-RE 028	Log-Periodic DipoleArray Antenna	3148	34429	EMCO	2006/5/26	2008/5/25
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	2006/5/26	2008/5/25
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2006/5/3	2008/5/2
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2006/10/11	2007/10/10
ETSTW-RE 033	WaveRunner 6000A Serise Oscilloscope	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	2006/7/27	2007/7/26
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2005/10/17	2007/10/16
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2007/1/11	2009/1/10
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2006/5/8	2008/5/7
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2006/5/29	2008/5/28

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ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2005/3/22	2008/3/21
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2007/5/02	2009/5/01
ETSTW-RE 055	SPECTRUM ANALYZER	FSU-26	200074	R&S	2006/7/28	2007/7/27
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu		Function Test

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## 2.4 General Test Procedure

**POWER LINE CONDUCTED INTERFERENCE:** The procedure used was ANSI STANDARD C63.4-2003 using a 50 $\mu$ H LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

**RADIATION INTERFERENCE:** The test procedure used was according to ANSI STANDARD C63.4-2003 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dB $\mu$ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

Freq (MHz)	METER READING + ACF + CABLE LOSS (to the receiver) = FS
33	20 dB $\mu$ V + 10.36 dB + 6 dB = 36.36 dB $\mu$ V/m @3m

The UUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.4-2000 Section 13.1.2. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

- (1) If the intentional radiator operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (2) If the intentional radiator operates at or above 10 GHz and below 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
- (3) If the intentional radiator operates at or above 30 GHz: to the fifth harmonic of the highest fundamental frequency or to 200 GHz, whichever is lower, unless specified otherwise elsewhere in the rules.
- (4) If the intentional radiator contains a digital device, regardless of whether this digital device controls the functions of the intentional radiator or the digital device is used for additional control or function purposes other than to enable the operation of the intentional radiator, the frequency range shall be investigated up to the range specified in paragraphs (a)(1)-(a)(3) of this section or the range applicable to the digital device, as shown in paragraph (b)(1) of this Section, whichever is the higher frequency range of investigation.

For hand-held devices, a exploratory test was performed with three (3) orthogonal planes to determine the highest emissions.

Measurements were made by ETS Product Service (Taiwan) Co., Ltd. at the registered open field test site located at No.5-1, Shuang Sing Village, LiShuei Rd., Wanli Township, Taipei County 207, Taiwan (R.O.C.) The Registration Number: 930600.

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When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

When the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

The formula is as follows:

Average = Peak + Duty Factor

Duty Factor =  $20 \log (dwell\ time/T)$

T = 100ms when the pulse train period is over 100 ms or the period of the pulse train.

Modified Limits for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

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**3 Test results (enclosure)**

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)(3)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Equivalent radiated Power	15.247(b)(3)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions radiated – Transmitter operating	15.247(c)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Band Edge Measurement	15.247(c)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Minimum 6 dB Bandwidth	15.247(a)(2)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Peak Power Spectral Density	15.247(d)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Line Conducted Emission	15.207	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The follows is intended to leave blank.

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### 3.1 Peak Output Power (transmitter)

FCC Rule: 15.247(b)(3)

This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

The power was measured with modulation (declared by the applicant).

Test condition		Conducted Power		
		Channel A	Channel B	Channel C
$T_{\text{nom}} = 23^{\circ}\text{C}$	$V_{\text{nom}} = 110 \text{ V}$	[dBm]	[dBm]	[dBm]
		22.99	23.60	23.38

Limits:

Frequency MHz	Power dBm
902 - 928	30
2400 – 2483.5	30
5725 – 5850	30

In case of employing transmitter antennas having antenna gain  $> 6 \text{ dBi}$  and using fixed point-to point operation consider §15.247 (b)(4)

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 055

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### 3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain

$$\text{EIRP} = 23.60 \text{ dBm} + 2.06 \text{ dBi}$$

$$= 25.66 \text{ dBm}$$

Limit: EIRP = +36 dBm for Antenna gain &lt;6dBi

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 021  
ETSTW-RE 028 ETSTW-RE 030 ETSTW-RE 043 ETSTW-RE 044

### 3.3 RF Exposure Compliance Requirements

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

$$S = \frac{P G}{4 \pi R^2}$$

S – Power Density

P – Output power ERP

R – Distance

D – Cable Loss

AG – Antenna Gain G = AG-D

Item	Unit	Value	Remarks
P	mW	229.086	Peak value
D	dB		
AG	dBi	2	
G		1.6	Calculated Value
R	cm	20	Assumed value
S	mW/cm <sup>2</sup>	0.07292	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm <sup>2</sup> )
1500 – 100.000	1,0

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### 3.4 Transmitter Radiated Emissions in Restricted Bands

FCC Rules: 15.247 (c), 15.205, 15.209, 15.35

Radiated emission measurements were performed from 30 MHz to 26500 MHz.

For radiated emission tests, the analyzer setting was as followings:

Frequency  $\leq$  1 GHz, RBW:100 kHz, VBW: 100 kHz (Peak measurements)

Frequency > 1 GHz, RBW: 1 MHz, VBW: 1 MHz (Peak measurements)

Frequency > 1 GHz, RBW:1 MHz, VBW: 10 Hz (Average measurements)

Limits.

For frequencies below 1GHz:

Frequency of Emission (MHz)	Field strength (microvolts/meter)	Field Strength (dB microvolts/meter)
30 - 88	100	40.0
88 - 216	150	43.5
216 - 960	200	46.0
Above	500	54.0

For frequencies above 1GHz (Average measurements).

Guidance on Measurement of Digit Transmission Systems:

"If the emission is pulsed, modify the unit for continuous operation, use the setting shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation."

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty cycle correction =  $20 \log (\text{dwell time} / 100\text{ms})$

Note: No duty cycle correction was added to the reading of this EUT.

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### 3.5 Spurious Emissions (tx)

Spurious emission was measured with modulation (declared by manufacturer).

In any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB 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. Attenuation below the general limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c))

FCC Rule: 15.247(c), 15.35

For out of band emissions that are close to or that exceed the 20 dB attenuation requirement described in the specification, radiated measurements were performed at a 3 m separation distance to determine whether these emissions complied with the general radiated emission requirement.

Limits:

Max. reading – 20 dB

Guidance on Measurement of Digit Transmission Systems:

“If the emission is pulsed, modify the unit for continuous operation, use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation.”

The correction factor, based on the total channel dwell time in a 100 ms period, may be mathematically applied to a measurement made with an average detector, to further reduce the value.

Duty Cycle correction =  $20 \log (\text{dwell time}/100\text{ms})$

For frequencies above 1GHz (Peak measurements).

Modified Limit for peak according to 15.35 (b) = Max Permitted average Limits + 20dB

For frequencies above 1GHz (Average measurements).

Max. reading – 20dB

Note: No duty cycle correction was added to the reading of EUT.

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 028  
ETSTW-RE 029 ETSTW-RE 030 ETSTW-RE 042 ETSTW-RE 043  
ETSTW-RE 044

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SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance with point 2.3.

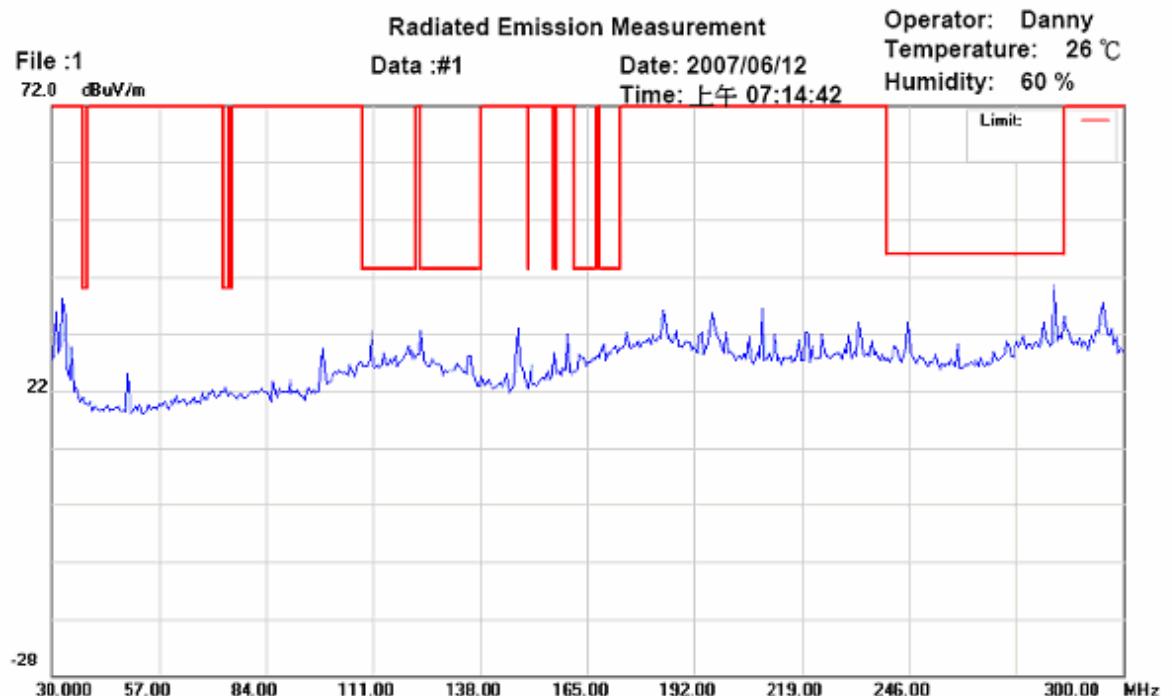
Calculation of test results:

Such factors like antenna correction, cable loss, external attenuation etc. are already included in the provided measurement results. This is done by using validated test software and calibrated test system according the accreditation requirements.

The peak and average spurious emission plots was measured with the average limits.

In the Table being listed the critical peak and average value and exhibit the compliance with the above calculated Limits.

If in the column's correction factor states a value then the max. Field strength in the same row is corrected by a value gained from the "Duty-Cycle Correction Factor".

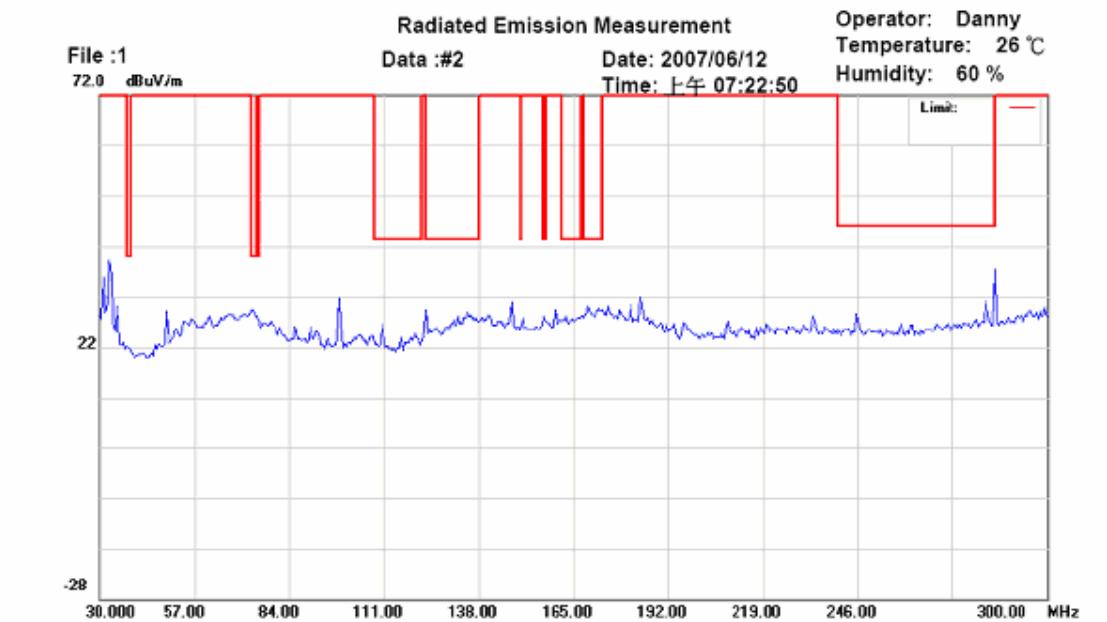


Site : site #1  
 Condition : Part15B  
 Company : W6M20705-8142  
 EUT Model: WHT-510  
 Execute Program : CH1 Tx  
 Note :

Polarization: *Horizontal*  
 Power : AC 110V/60Hz  
 Distance: 3m

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Site : site #1

Condition : Part15B

Polarization: *Vertical*

Company : W6M20705-8142

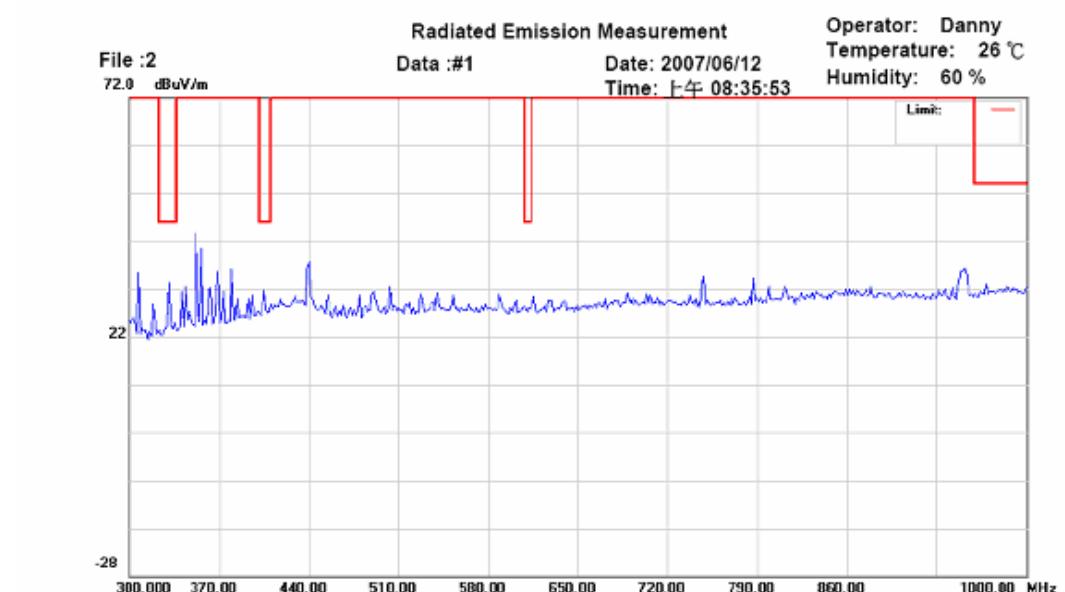
Power : AC 110V/60Hz

EUT Model: WHT-510

Distance: 3m

Execute Program : CH1 Tx

Note :



Site : site #1

Condition : Part15B

Polarization: *Horizontal*

Company : W6M20705-8142

Power : AC 110V/60Hz

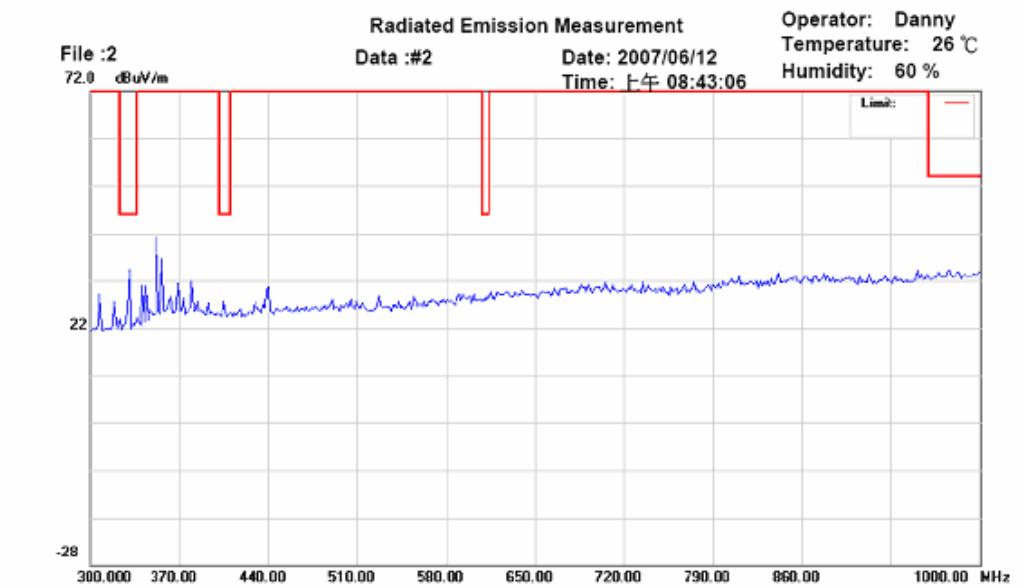
EUT Model: WHT-510

Distance: 3m

Execute Program : CH1 Tx

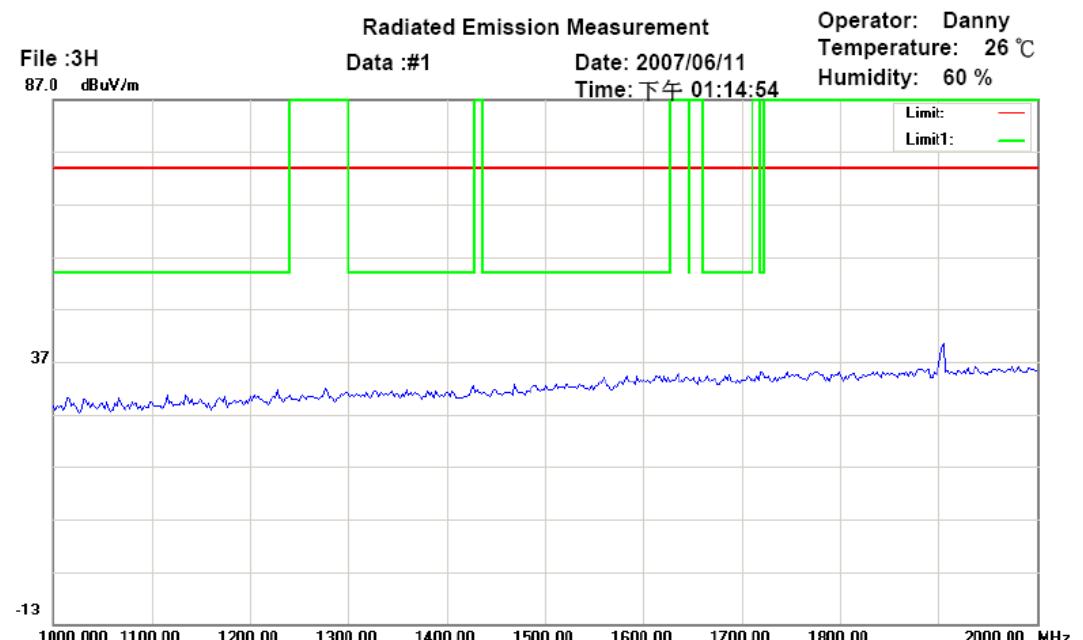
Note :

Registration number: W6M20705-8142-C-1  
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Site : site #1  
Condition : Part15B  
Company : W6M20705-8142  
EUT Model: WHT-510  
Execute Program : CH1 Tx  
Note :

Polarization: **Vertical**  
Power : AC 110V/60Hz  
Distance: 3m

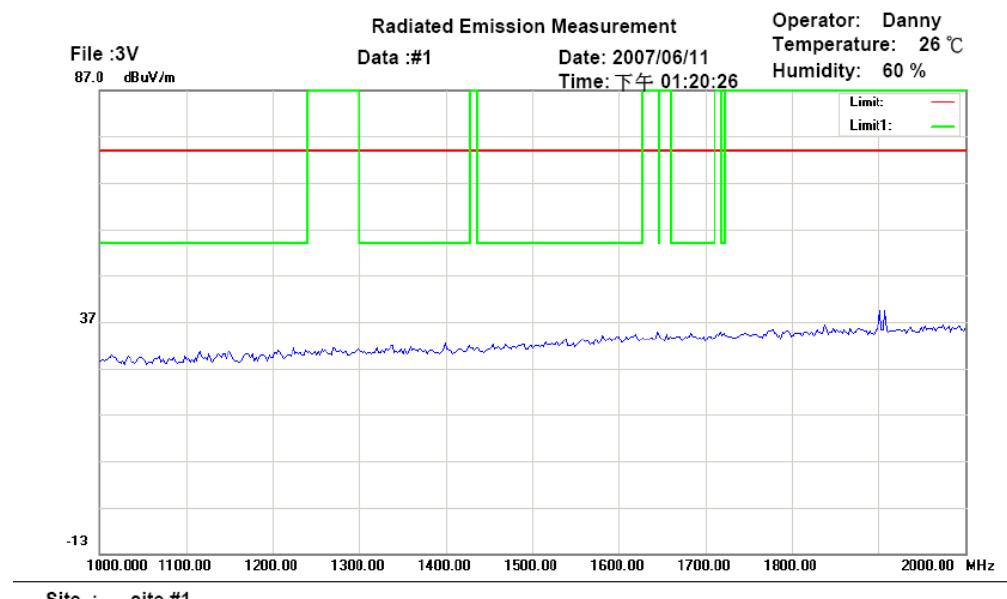


Site : site #1  
Condition : Part15 C  
Company : W6M20705-8142  
EUT Model: WHT-510  
Execute Program : CH1 Tx  
Note :

Polarization: **Horizontal**  
Power : AC 110V/60Hz  
Distance: 3m

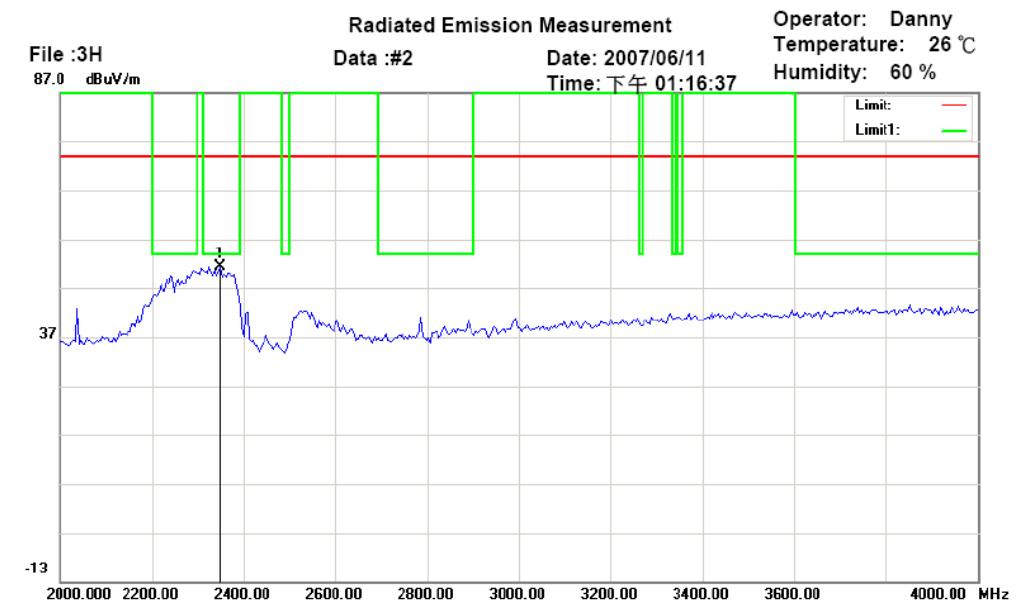
Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



Site : site #1  
Condition : Part15 C  
Company : W6M20705-8142  
EUT Model: WHT-510  
Execute Program : CH1 Tx  
Note :

Polarization: *Vertical*  
Power : AC 110V/60Hz  
Distance: 3m



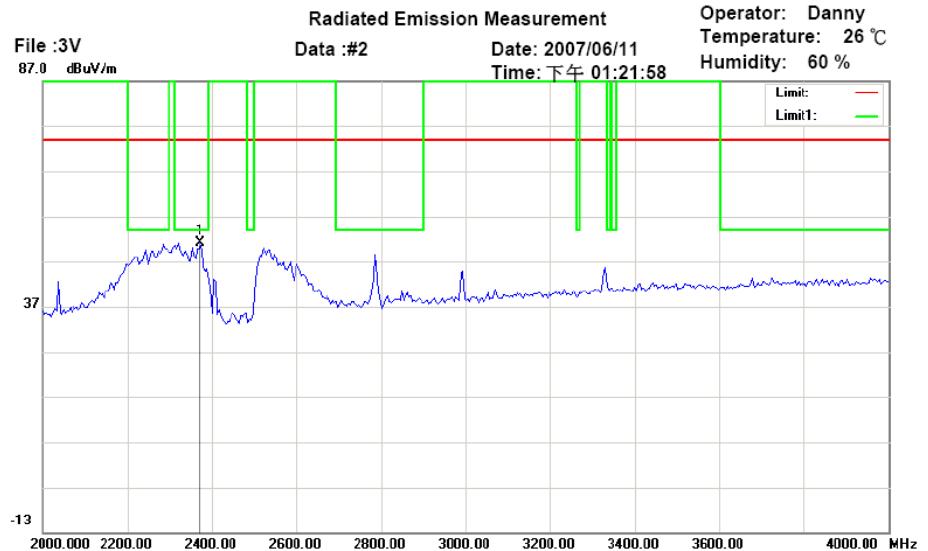
Site : site #1  
Condition : Part15 C  
Company : W6M20705-8142  
EUT Model: WHT-510  
Execute Program : CH1 Tx  
Note :

Polarization: *Horizontal*  
Power : AC 110V/60Hz  
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2348.697	56.85	peak	-5.36	51.49	74.00	130	157	-22.51	

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



Site : site #1

Condition : Part15 C

Polarization: **Vertical**

Company : W6M20705-8142

Power : AC 110V/60Hz

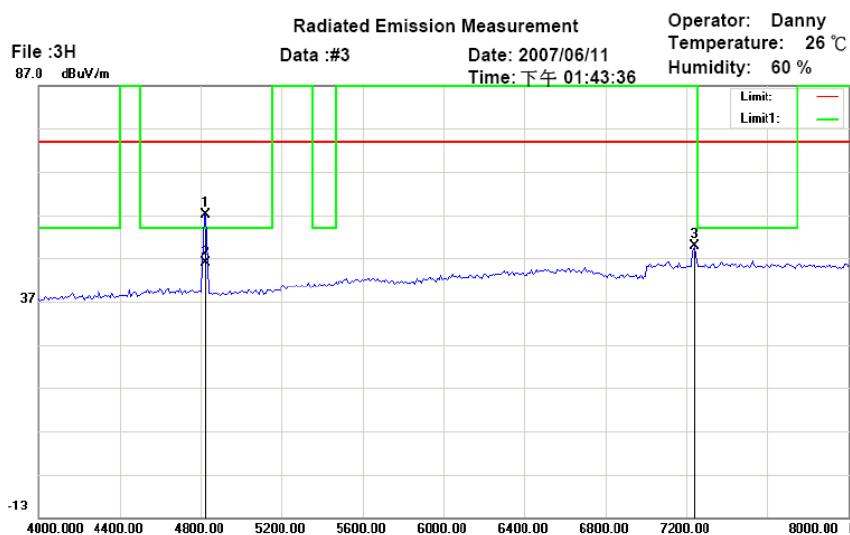
EUT Model: WHT-510

Distance: 3m

Execute Program : CH1 Tx

Note :

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2372.745	56.45	peak	-5.24	51.21	74.00	126	79	-22.79	



Site : site #1

Condition : Part15 C

Polarization: **Horizontal**

Company : W6M20705-8142

Power : AC 110V/60Hz

EUT Model: WHT-510

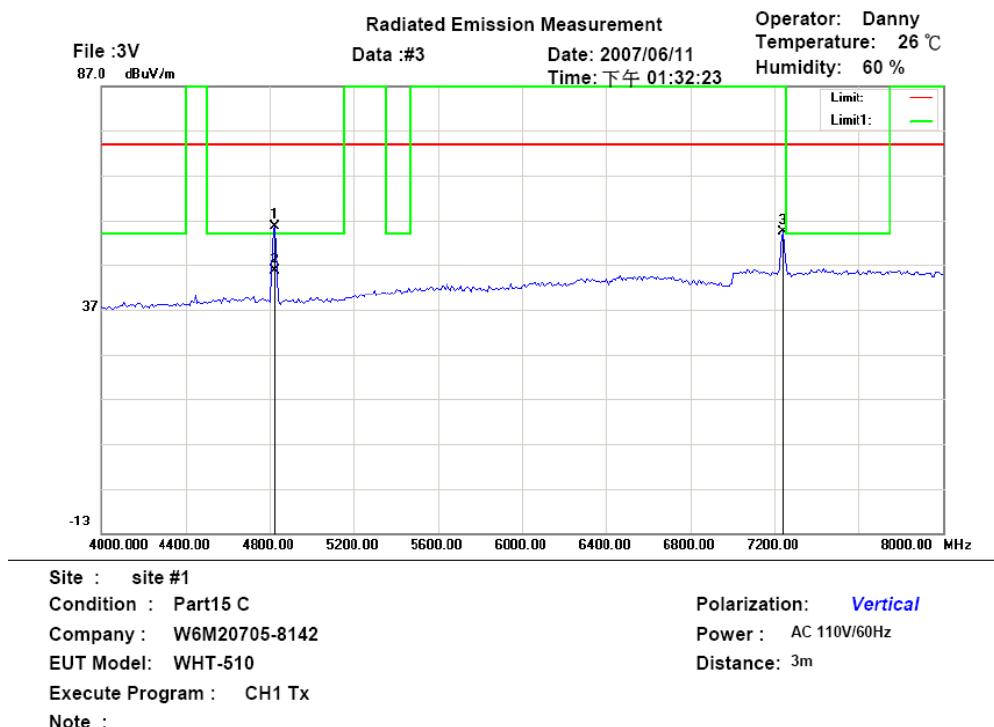
Distance: 3m

Execute Program : CH1 Tx

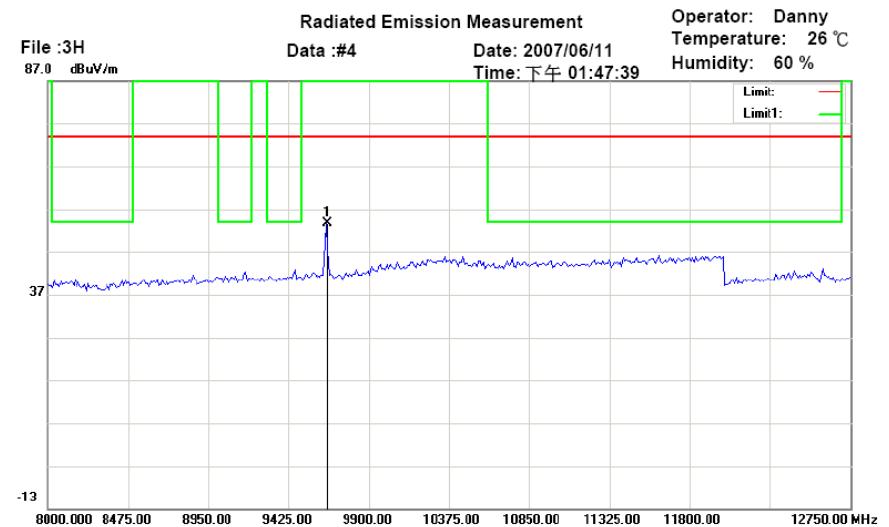
Note :

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4823.713	58.43	peak	-1.30	57.13	74.00	123	150	-16.87	
*	4823.713	47.24	AVG	-1.30	45.94	54.00	123	150	-8.06	
	7238.477	47.91	peak	1.86	49.77	74.00	126	160	-24.23	

Registration number: W6M20705-8142-C-1  
FCC ID: R48WHT510



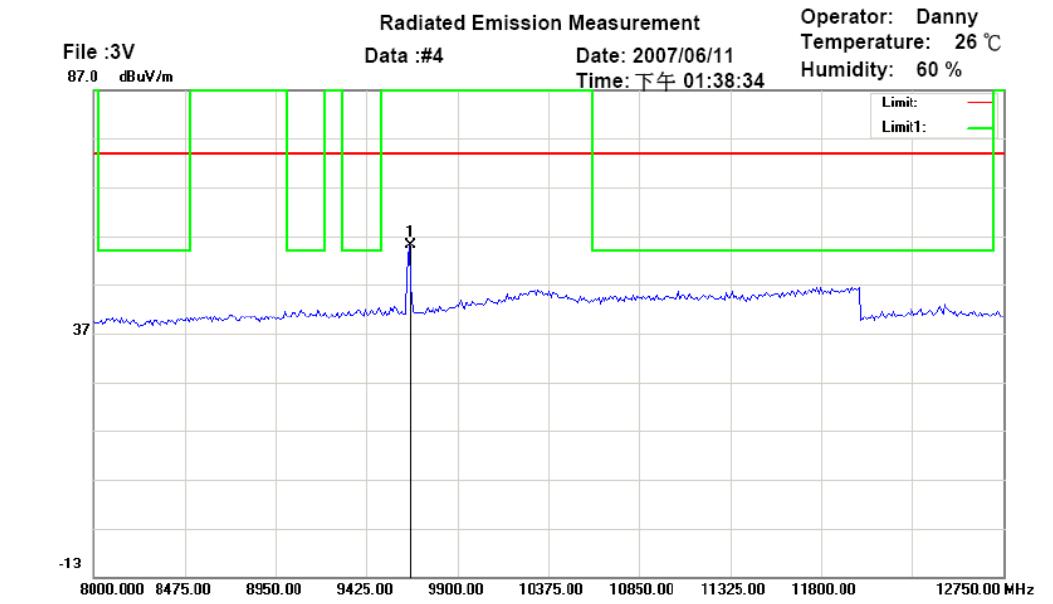
Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4823.787	56.86	peak	-1.30	55.66	74.00	131	80	-18.44	
*	4823.787	47.01	AVG	-1.30	45.71	54.00	131	80	-8.29	
	7238.477	52.42	peak	1.86	54.28	74.00	128	82	-19.72	



Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	9646.794	34.64	peak	19.07	53.71	74.00	128	155	-20.29	

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



Site : site #1

Condition : Part15 C

Polarization: *Vertical*

Company : W6M20705-8142

Power : AC 110V/60Hz

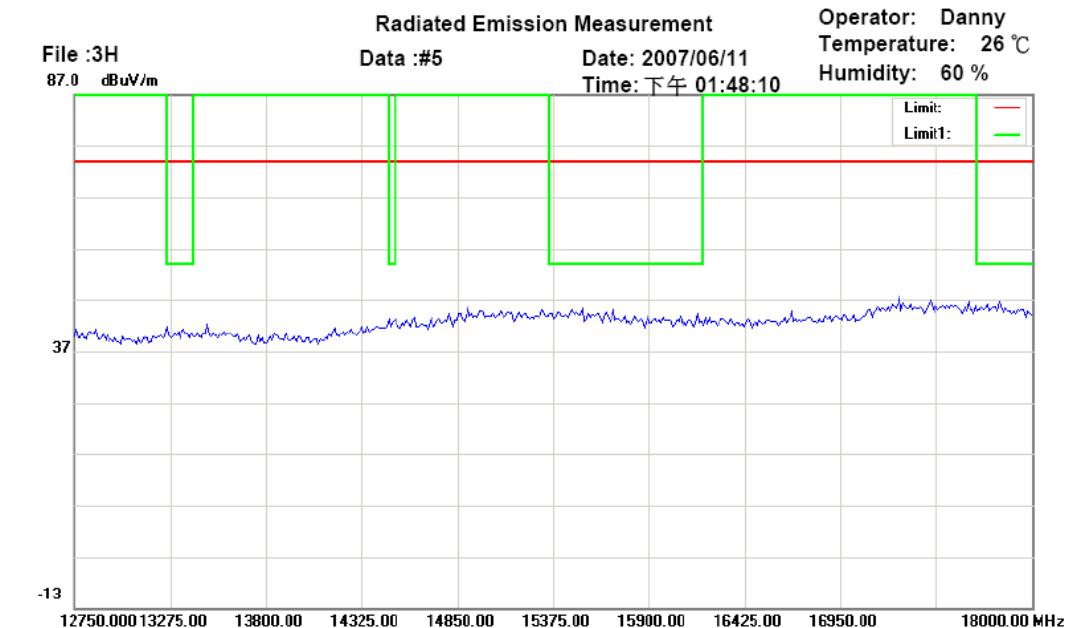
EUT Model: WHT-510

Distance: 3m

Execute Program : CH1 Tx

### Note :

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	9646.794	35.96	peak	19.07	55.03	74.00	130	81	-18.97	



Site : site #1

### Condition : Part15 C

Polarization: *Horizontal*

Company: W6M20705-8142

Power: AC 110V/60Hz

Company : WUMZ070

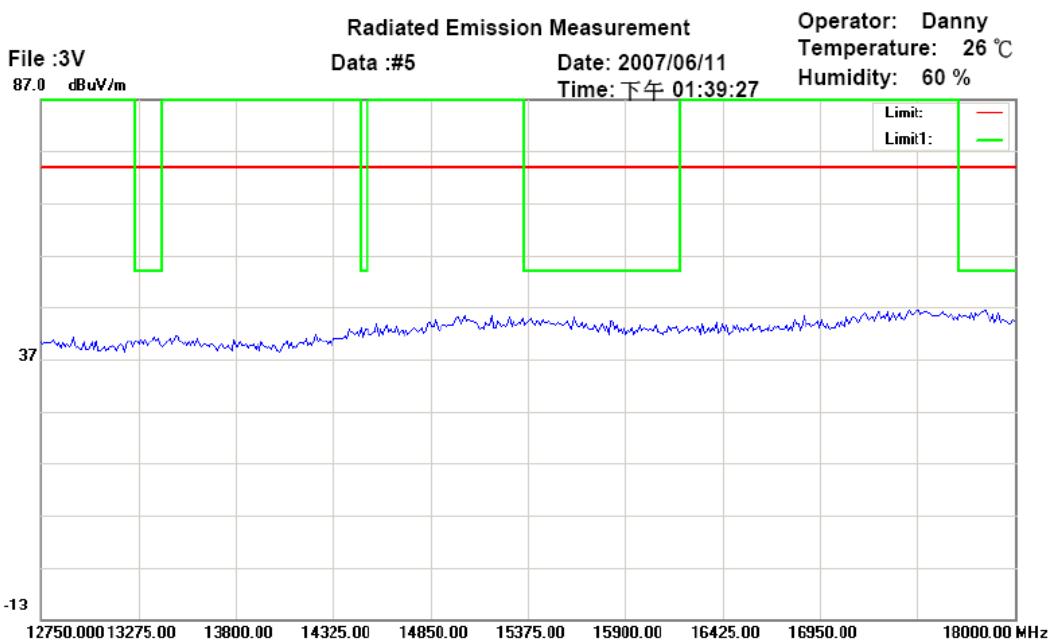
Power: 700

EOT Model. WHT-510

## Executive Summary

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



Site : site #1

Condition : Part15 C

Polarization: *Vertical*

Company : W6M20705-8142

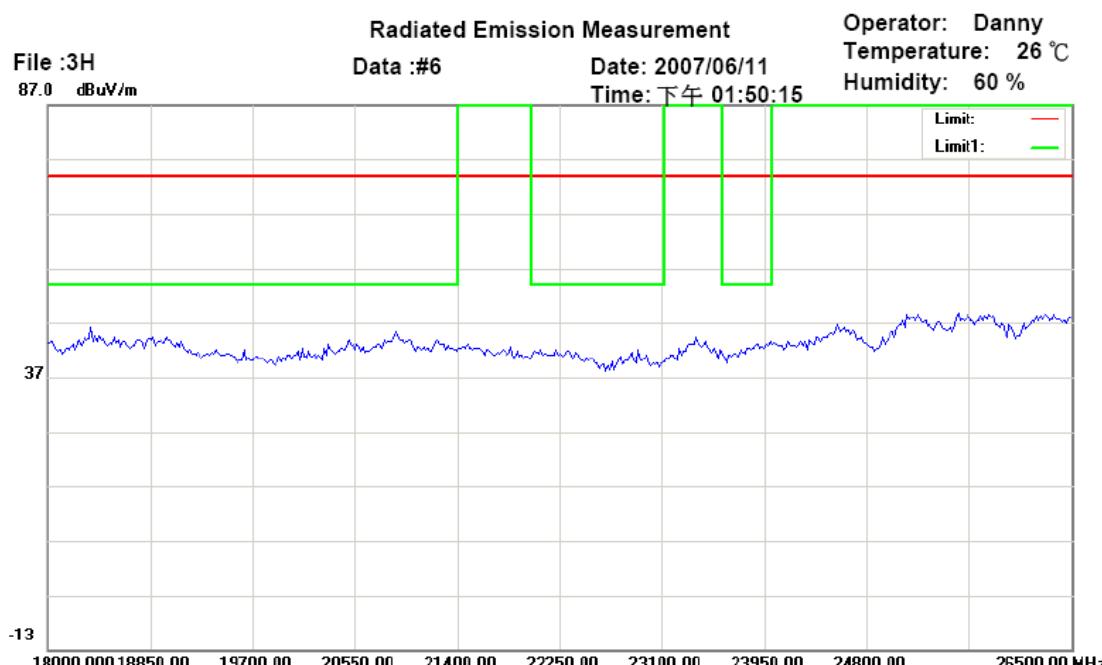
Power : AC 110V/60Hz

EUT Model: WHT-510

Distance: 3m

Execute Program : CH1 Tx

Note :



Site : site #1

Condition : Part15 C

Polarization: *Horizontal*

Company : W6M20705-8142

Power : AC 110V/60Hz

EUT Model: WHT-510

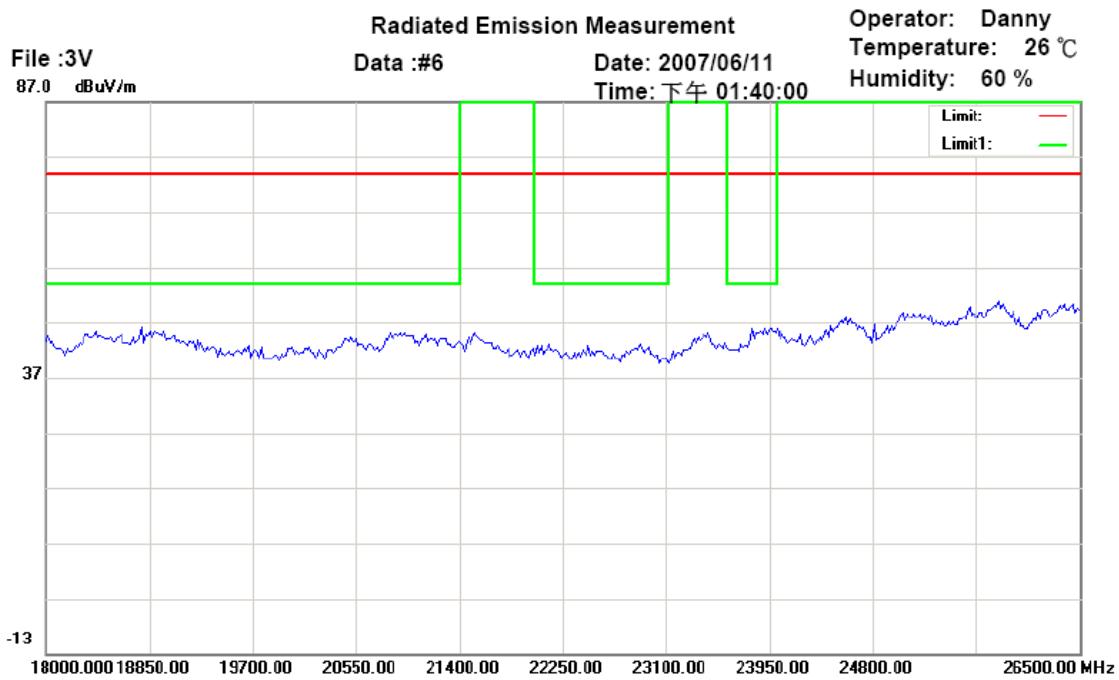
Distance: 3m

Execute Program : CH1 Tx

Note :

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



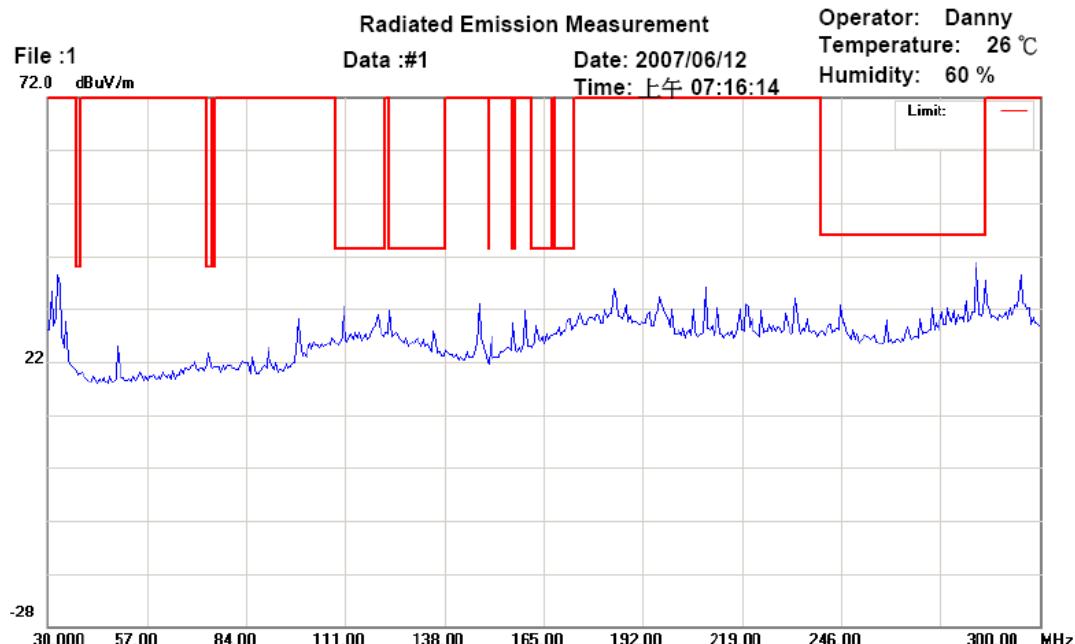
Site : site #1

Condition : Part15 C  
 Company : W6M20705-8142  
 EUT Model: WHT-510  
 Execute Program : CH1 Tx

Polarization: *Vertical*

Power : AC 110V/60Hz  
 Distance: 3m

Note :



Site : site #1

Condition : Part15B  
 Company : W6M20705-8142  
 EUT Model: WHT-510  
 Execute Program : CH6 Tx

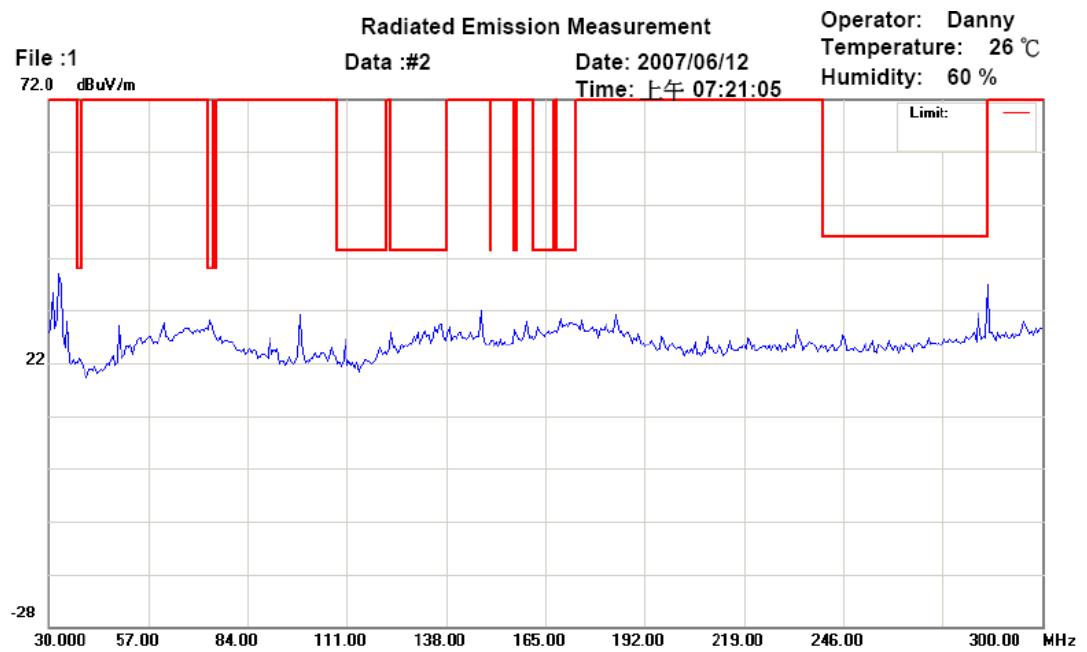
Polarization: *Horizontal*

Power : AC 110V/60Hz  
 Distance: 3m

Note :

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



Site : site #1

Condition : Part15B

Polarization: **Vertical**

Company : W6M20705-8142

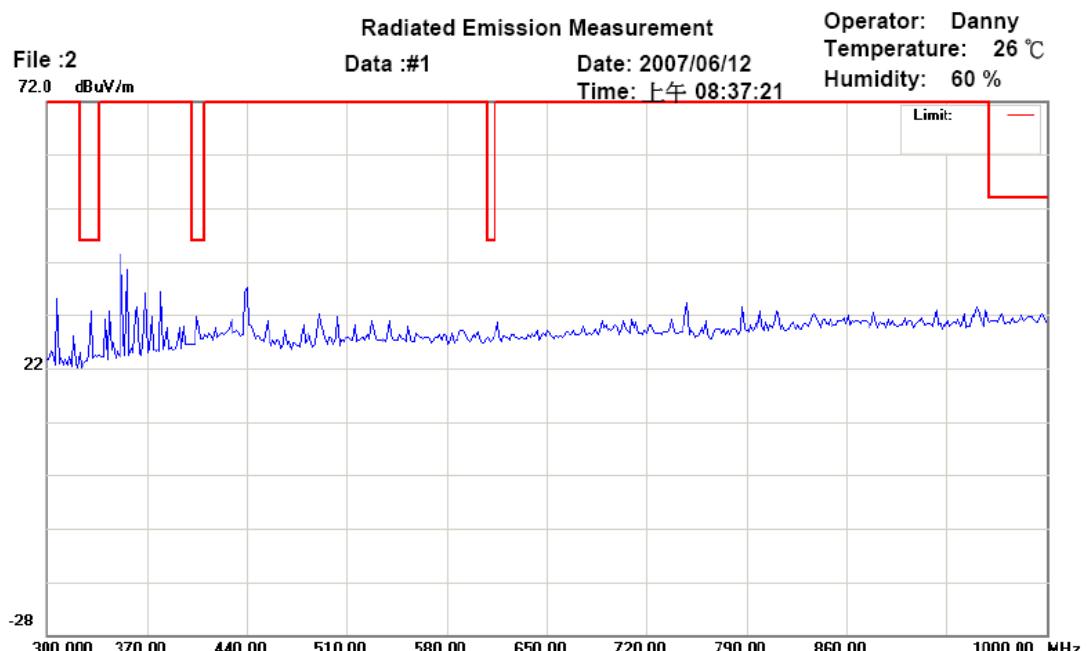
Power : AC 110V/60Hz

EUT Model: WHT-510

Distance: 3m

Execute Program : CH6 Tx

Note :-



Site : site #1

Site : site #1

Polarization: Horizontal

Condition: Part 1B

Power : AC 110V/60Hz

Company : WEMZ070

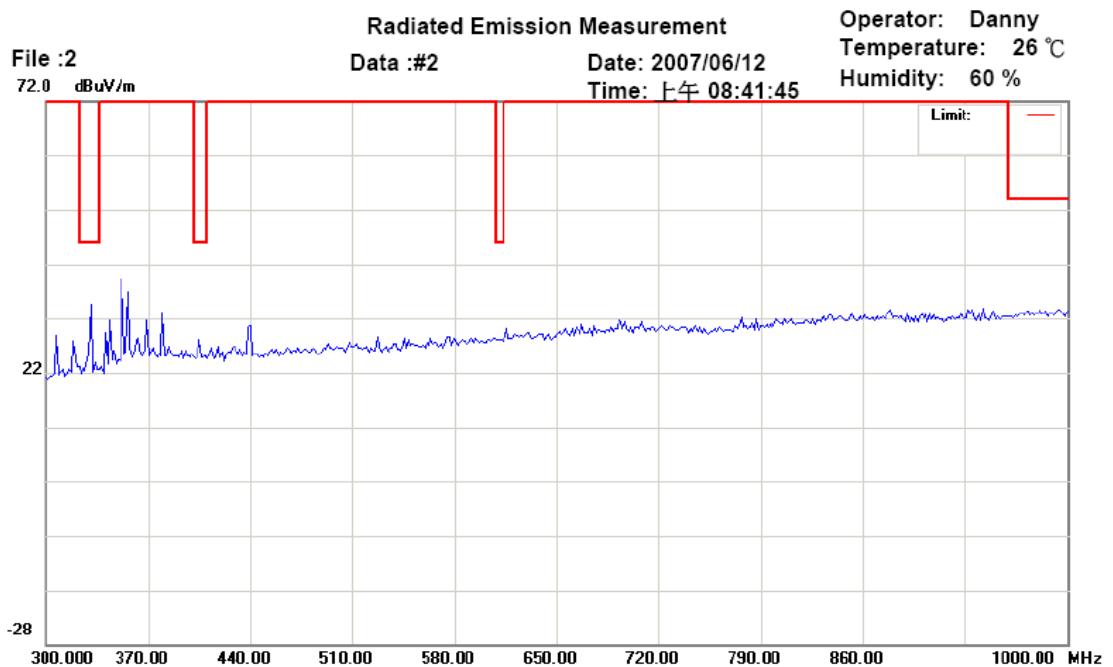
Power : AC

EUT Model: WH1-510

## Executive

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



Site : site #1

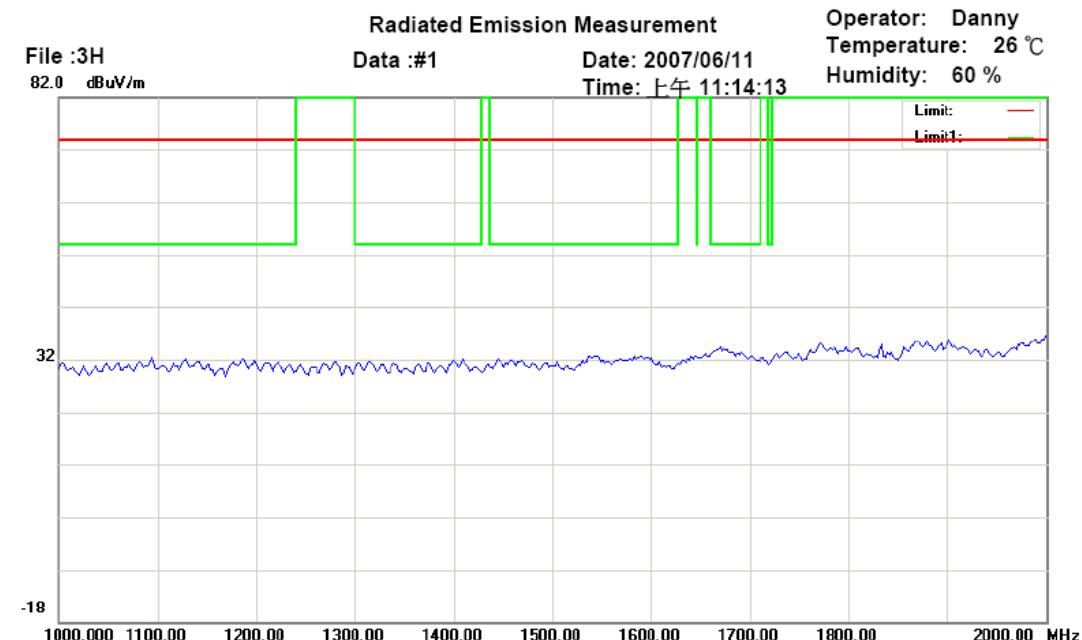
Condition : Part15B  
Company : W6M20705-8142

Polarization: *Vertical*  
Power : AC 110V/60Hz

EUT Model: WHT-510  
Execute Program : CH6 Tx

Distance: 3m

### Note :-



Site : site #1

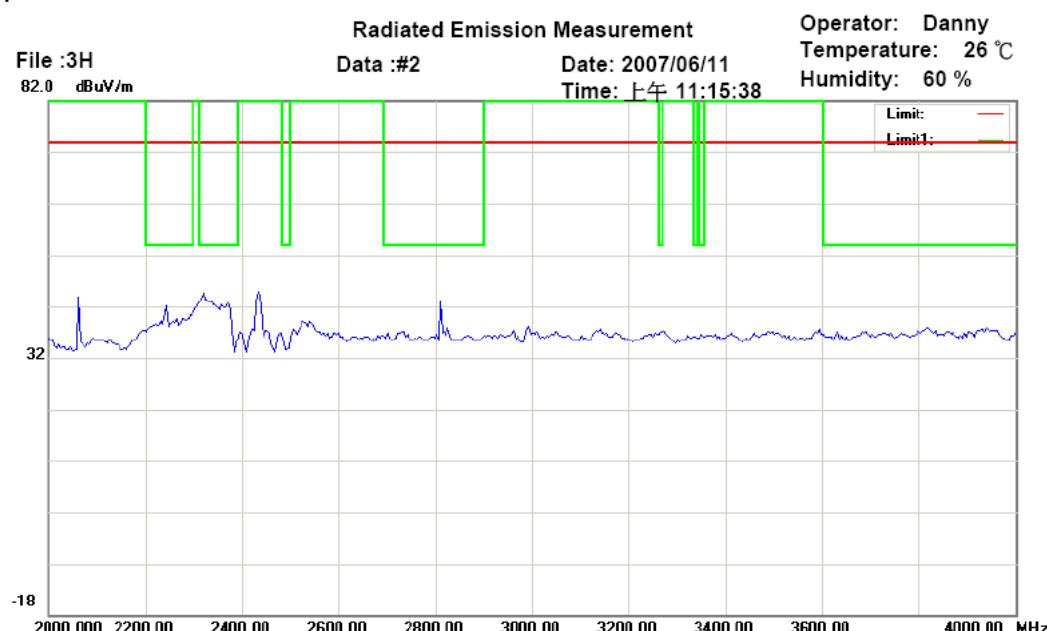
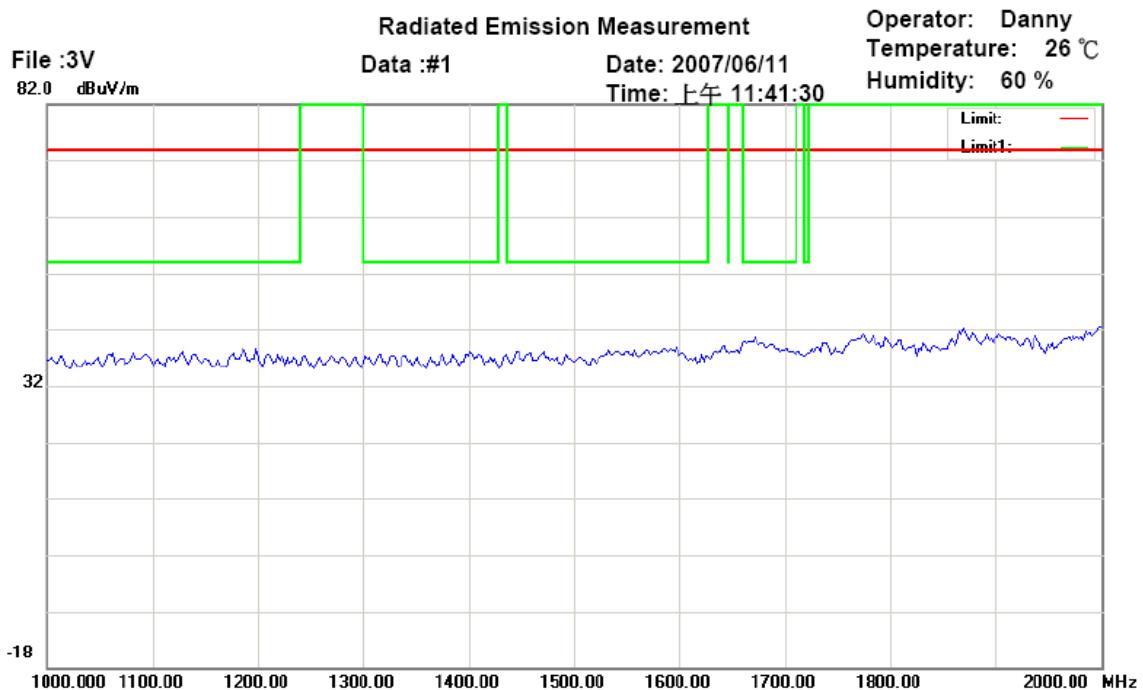
Condition : Part15 C  
Company : W6M20705-8142  
EUT Model: WHT-510  
Execute Program : CH6 Tx

Polarization: *Horizontal*  
Power : AC 110V/60Hz  
Distance: 3m

Note :-

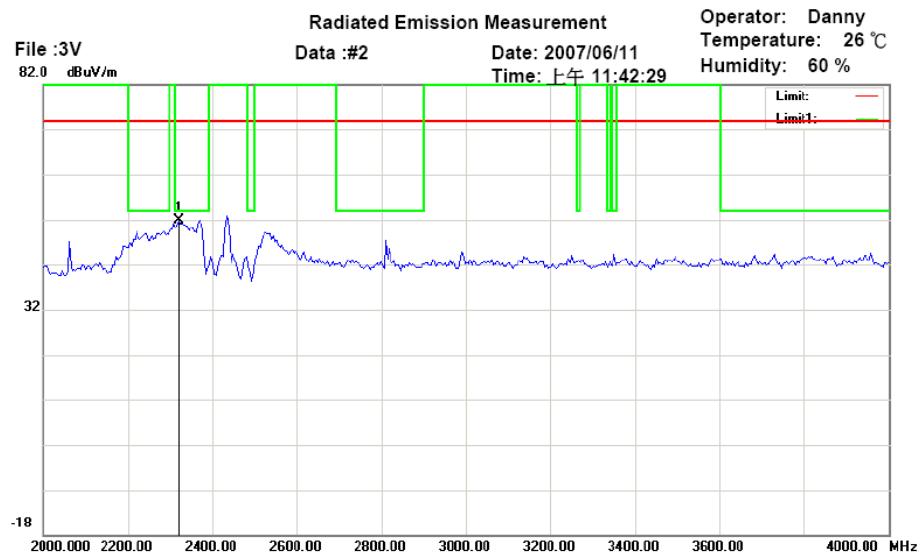
Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



Registration number: W6M20705-8142-C-1

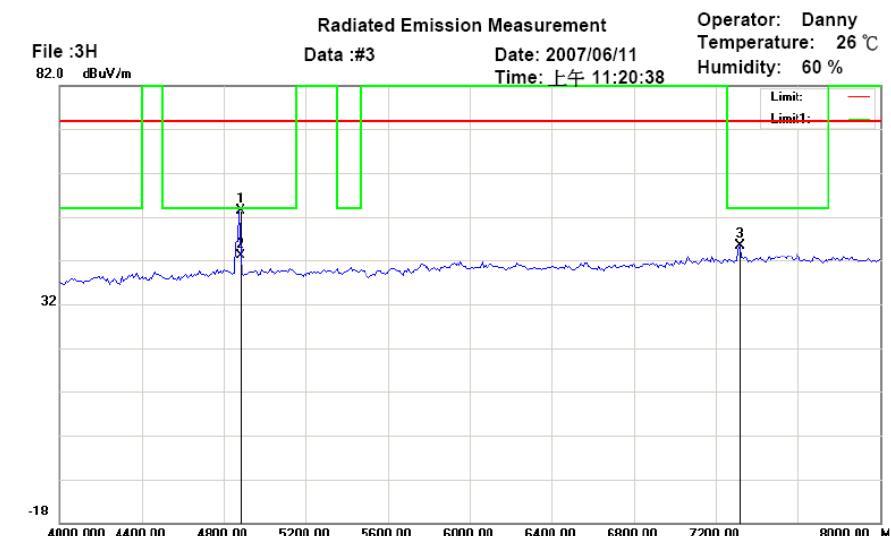
FCC ID: R48WHT510



Site : site #1  
Condition : Part15 C  
Company : W6M20705-8142  
EUT Model: WHT-510  
Execute Program : CH6 Tx  
Note :

Polarization: Vertical  
Power : AC 110V/60Hz  
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2320.641	59.71	peak	-7.73	51.98	74.00	134	77	-22.02	



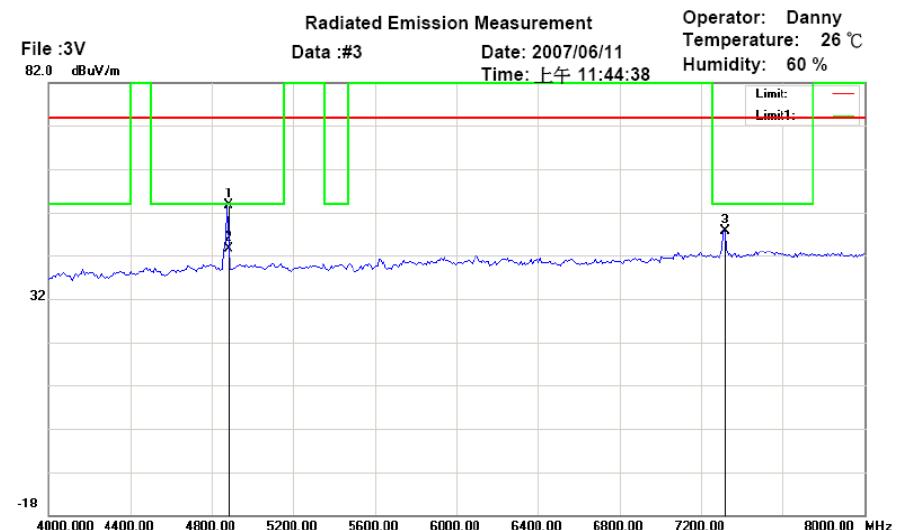
Site : site #1  
Condition : Part15 C  
Company : W6M20705-8142  
EUT Model: WHT-510  
Execute Program : CH6 Tx  
Note :

Polarization: Horizontal  
Power : AC 110V/60Hz  
Distance: 3m

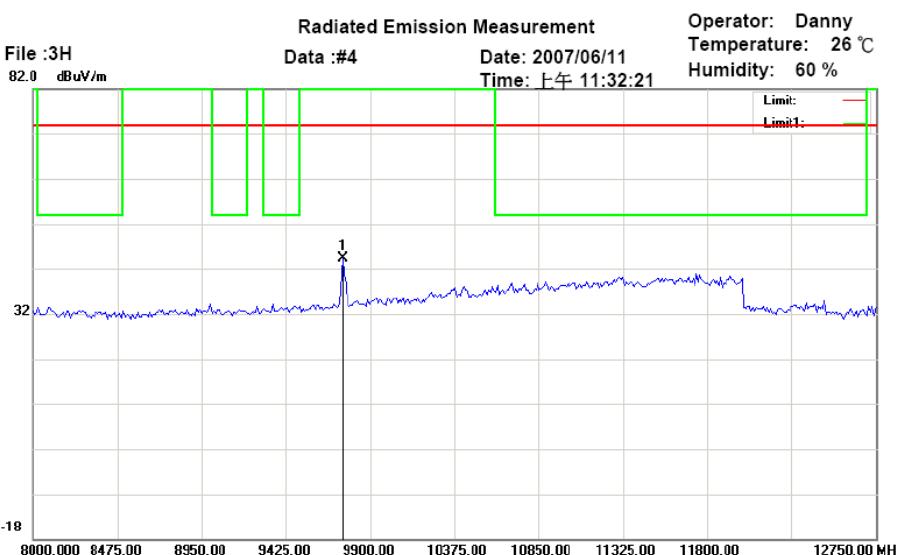
Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4873.748	55.57	peak	-2.18	53.39	74.00	127	152	-20.61	
*	4873.748	45.26	AVG	-2.18	43.08	54.00	127	152	-10.92	
	7318.637	43.22	peak	2.26	45.48	74.00	131	149	-28.52	

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



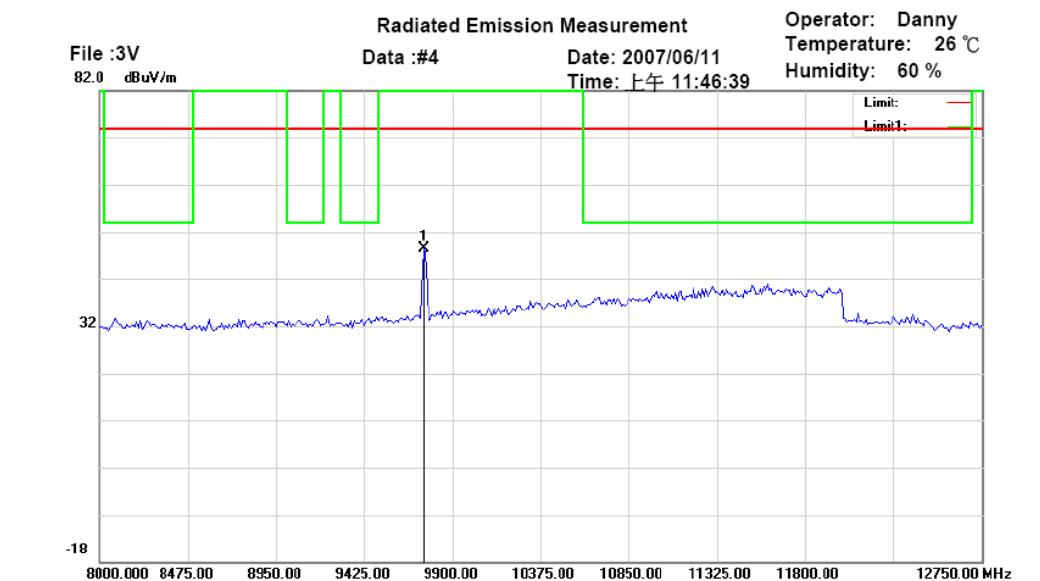
Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4873.748	65.93	peak	-2.18	53.75	74.00	131	79	-20.25	
*	4873.748	45.88	AVG	-2.18	43.70	54.00	131	79	-10.30	
	7318.637	45.35	peak	2.26	47.61	74.00	133	76	-26.39	



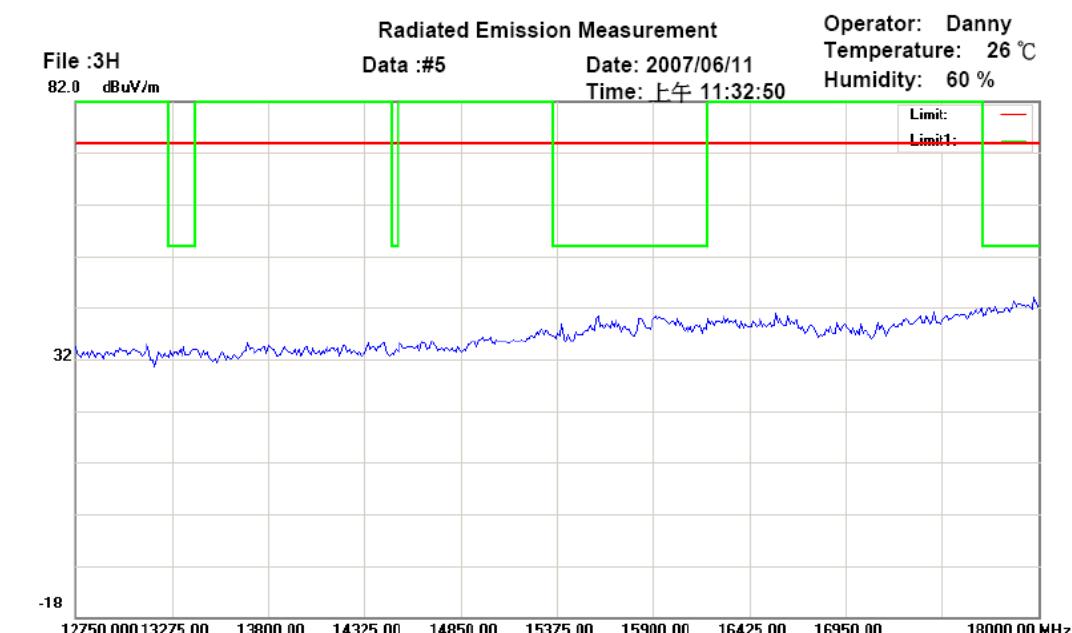
Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	9741.984	45.07	peak	-0.68	44.39	74.00	129	150	-29.61	

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



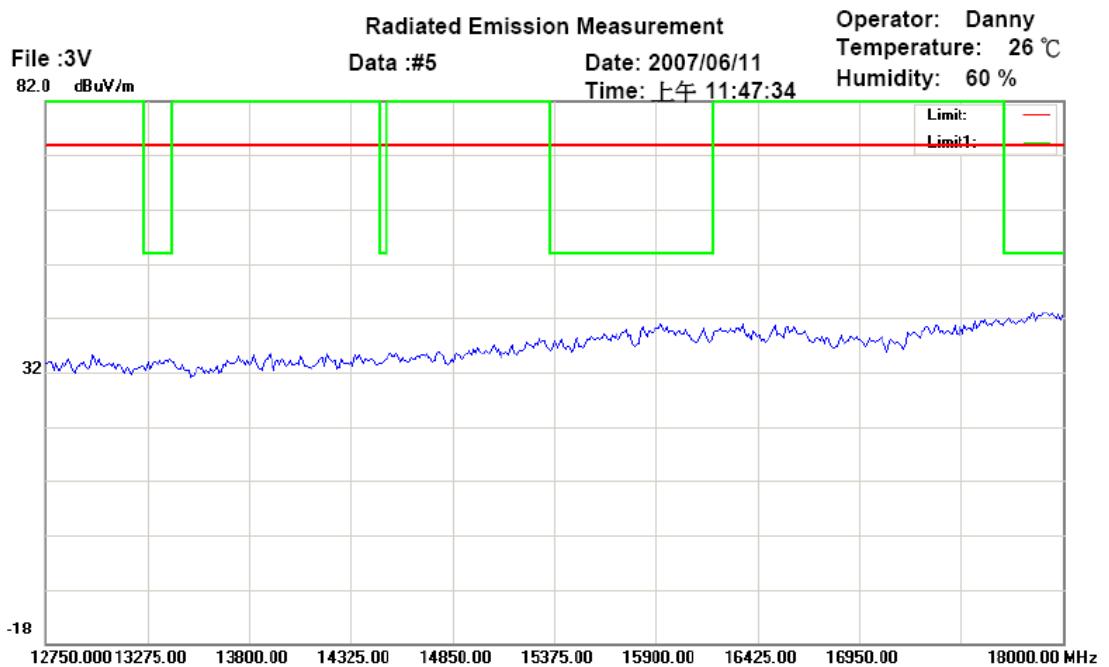
Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	9741.984	48.94	peak	-0.68	48.26	74.00	135	79	-25.74	



Site :	Condition :	Company :	EUT Model:	Execute Program :	Polarization:	Power :	Distance:
site #1	Part15 C	W6M20705-8142	WHT-510	CH6 Tx	Horizontal	AC 110V/60Hz	3m

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



Site : site #1

Condition : Part15 C

Company : W6M20705-8142

EUT Model: WHT-510

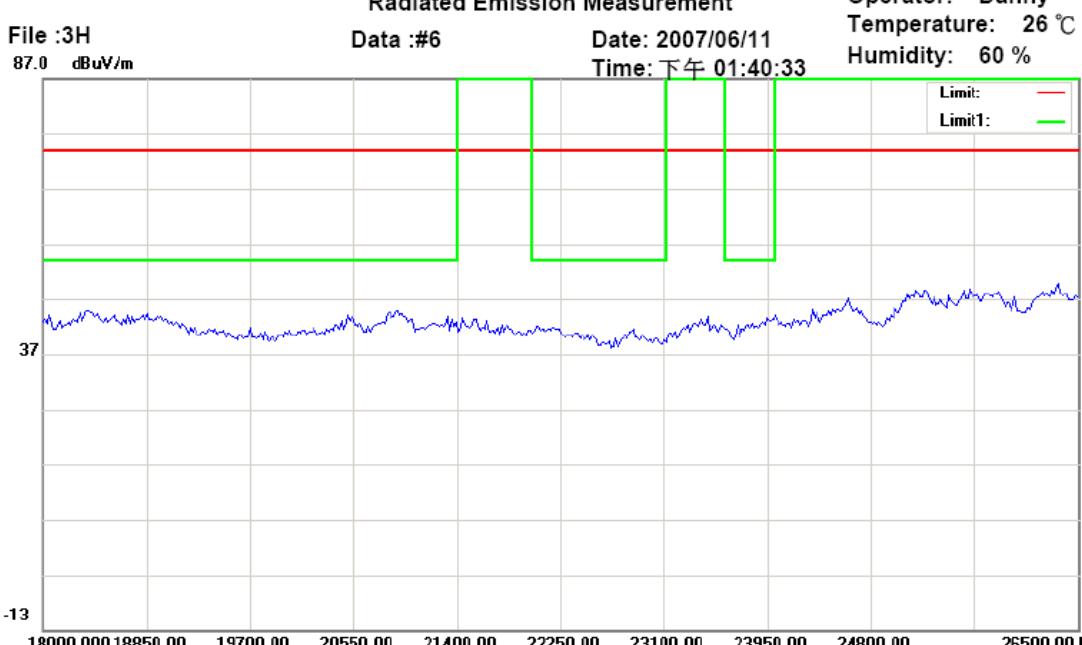
Execute Program : CH6 Tx

Note :

Polarization: *Vertical*

Power : AC 110V/60Hz

Distance: 3m



Site : site #1

Condition : Part15 C

Company : W6M20705-8142

EUT Model: WHT-510

Execute Program : CH6 Tx

Note :

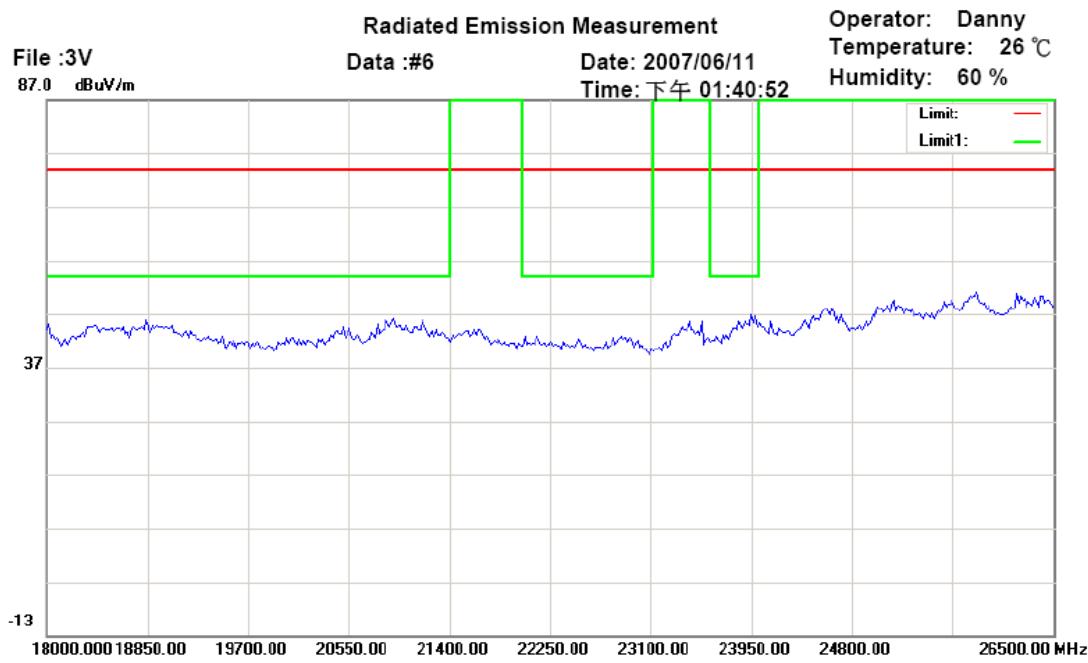
Polarization: *Horizontal*

Power : AC 110V/60Hz

Distance: 3m

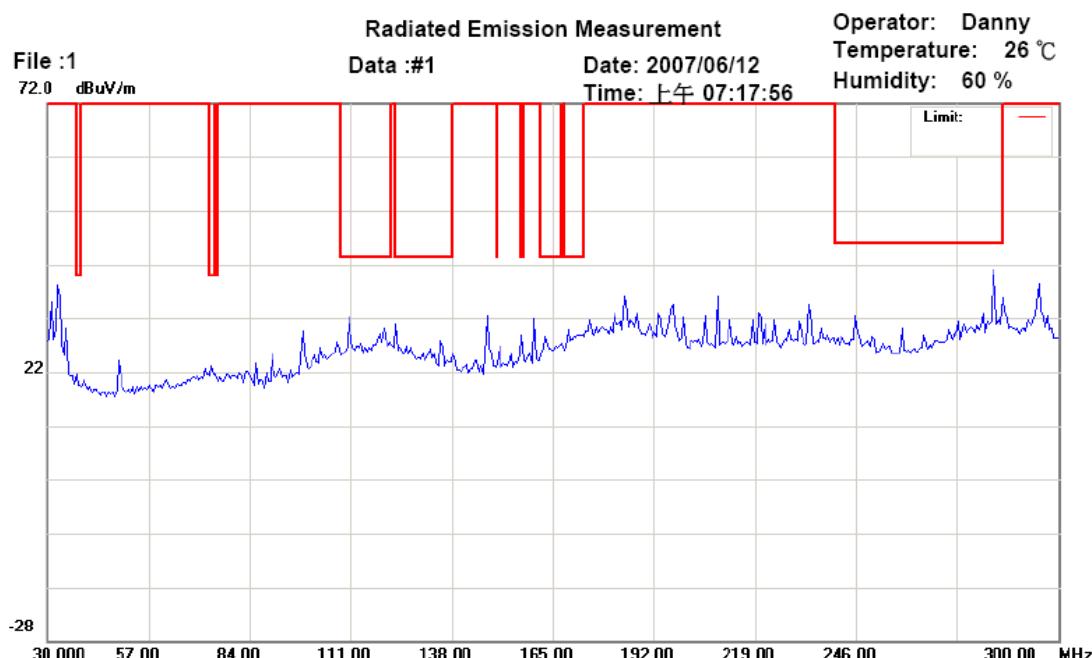
Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



Site : site #1  
Condition : Part15 C  
Company : W6M20705-8142  
EUT Model: WHT-510  
Execute Program : CH6 Tx  
Note :

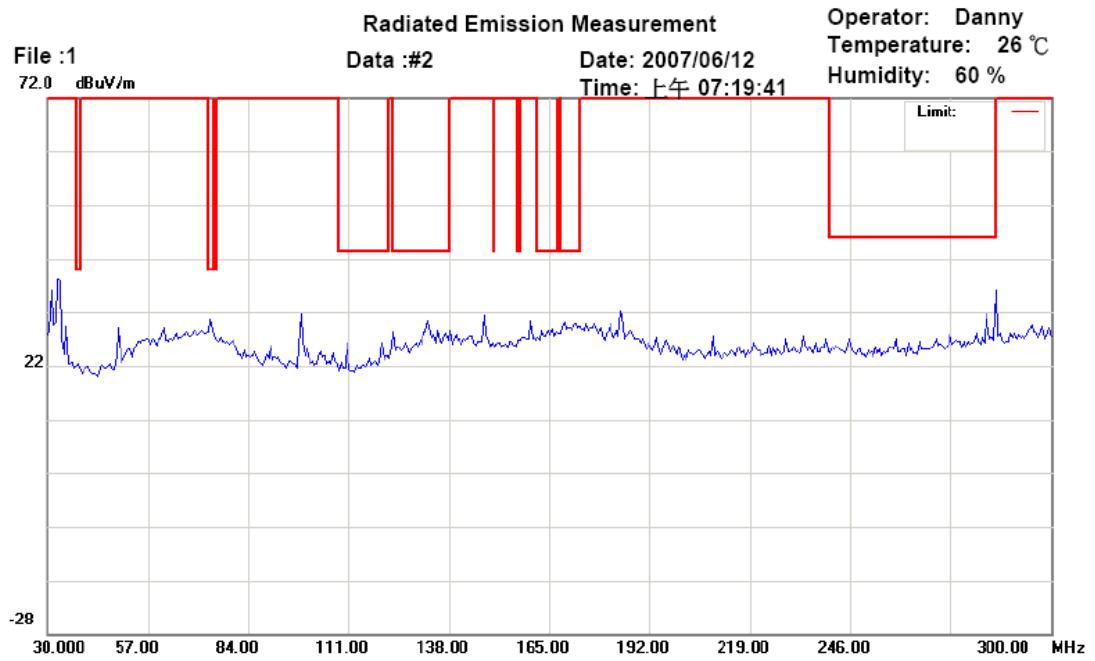
Polarization: *Vertical*  
Power : AC 110V/60Hz  
Distance: 3m



Site : site #1  
Condition : Part15B  
Company : W6M20705-8142  
EUT Model: WHT-510  
Execute Program : CH11 Tx  
Note :

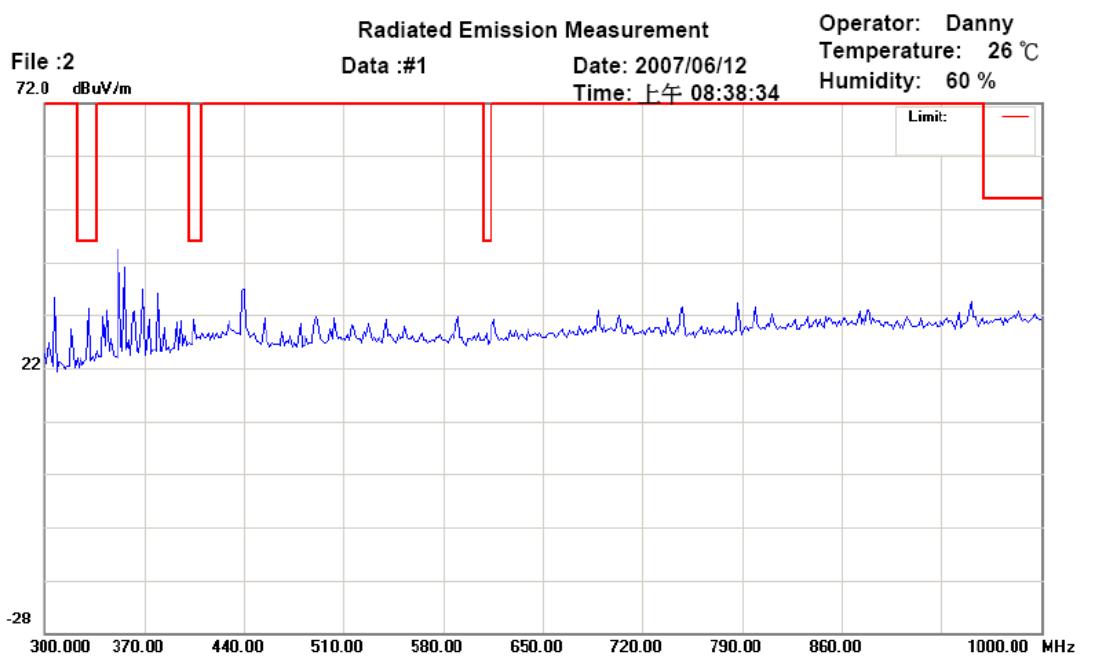
Polarization: *Horizontal*  
Power : AC 110V/60Hz  
Distance: 3m

Registration number: W6M20705-8142-C-1  
FCC ID: R48WHT510



Site : site #1  
Condition : Part15B  
Company : W6M20705-8142  
EUT Model: WHT-510  
Execute Program : CH11 Tx  
Note :

Polarization: *Vertical*  
Power : AC 110V/60Hz  
Distance: 3m

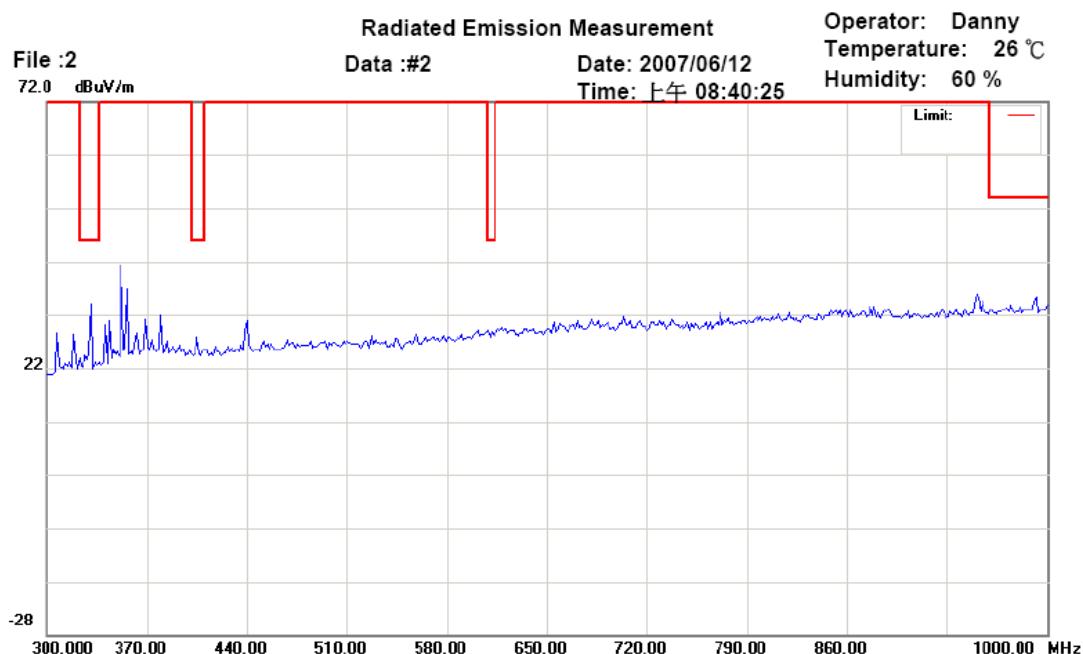


Site : site #1  
Condition : Part15B  
Company : W6M20705-8142  
EUT Model: WHT-510  
Execute Program : CH11 Tx  
Note :

Polarization: *Horizontal*  
Power : AC 110V/60Hz  
Distance: 3m

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



Site : site #1

Condition : Part15B

Polarization: *Vertical*

Company : W6M20705-8142

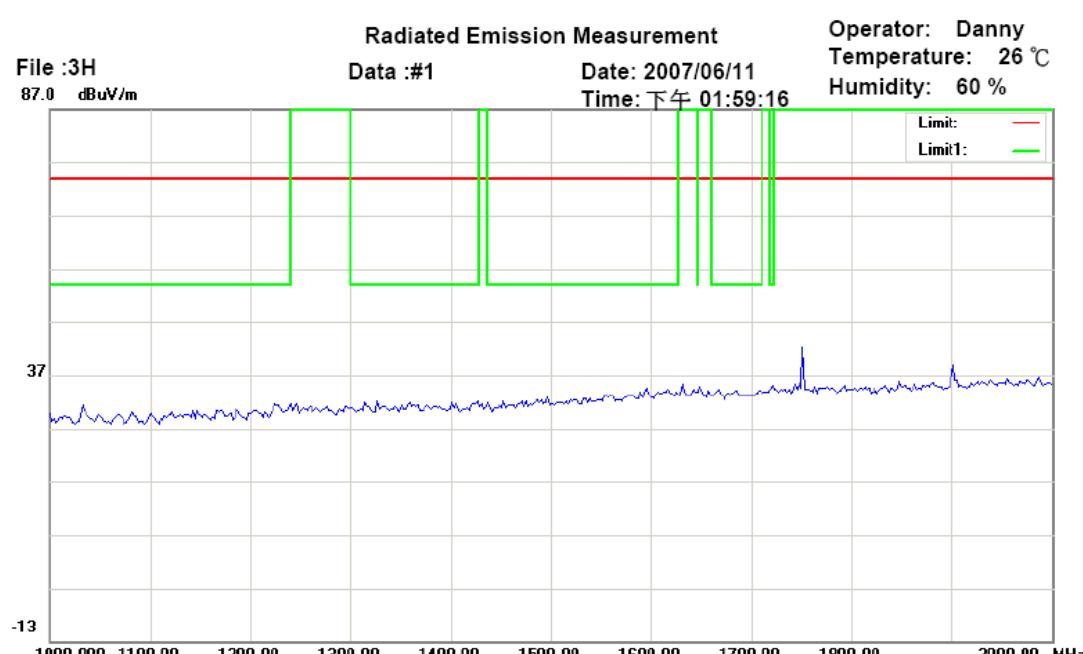
Power : AC 110V/60Hz

EUT Model: WHT-510

Distance: 3m

Execute Program : CH11 Tx

### Note :



Site : site #1

Site : site #1

Polarization: *Horizontal*

Condition : Fair to C

Power: AC 110V/60Hz

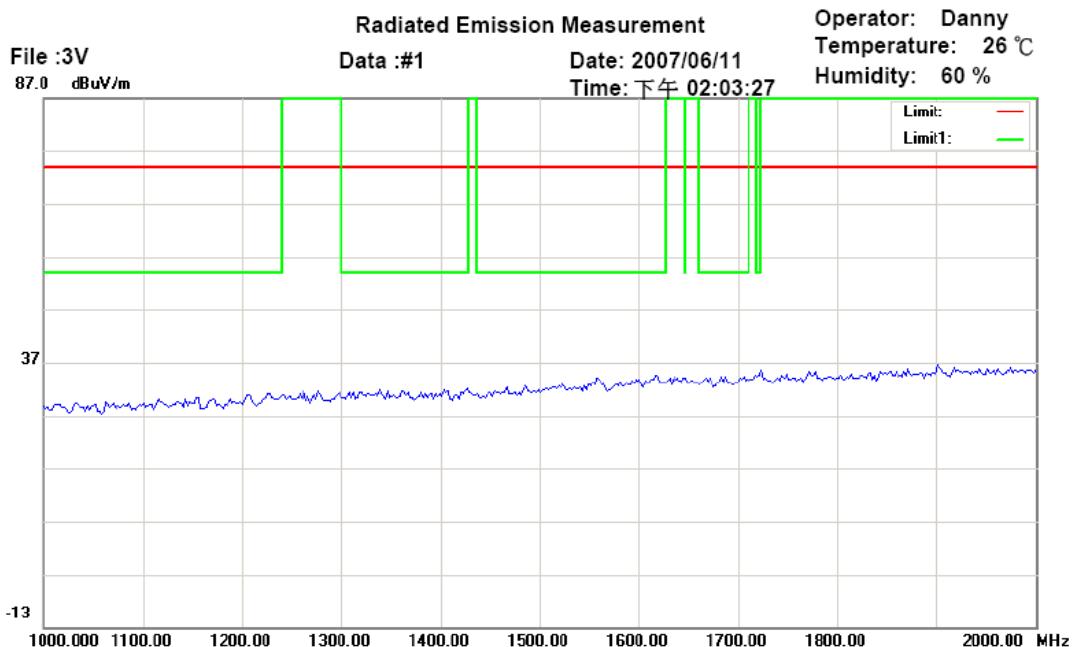
Company : WEMZ070

Execute Program : CH11 Ty

## Executive Note

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



Site : site #1

Condition : Part15 C

Polarization: *Vertical*

Company : W6M20705-8142

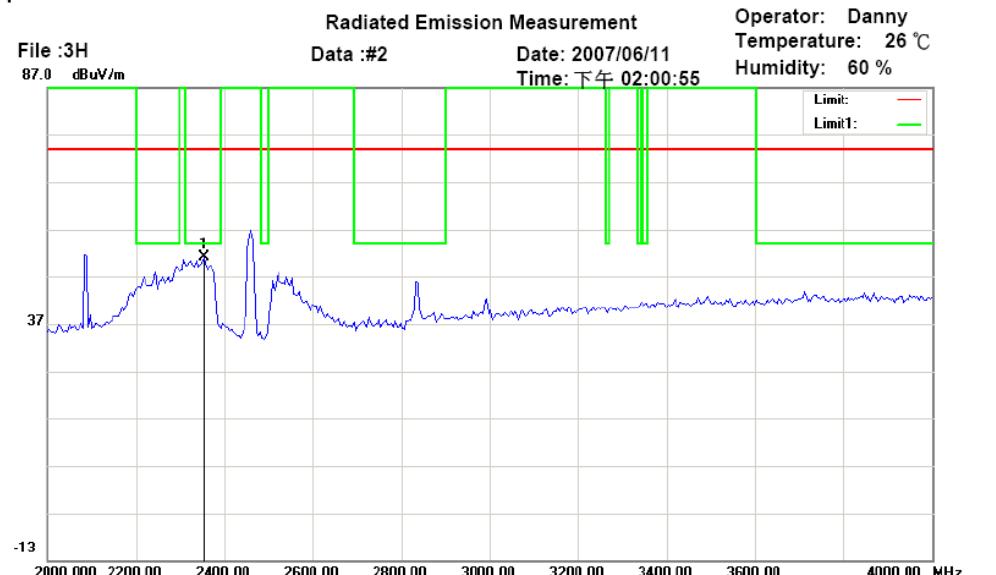
Power : AC 110V/60Hz

EUT Model: WHT-510

Distance: 3m

Execute Program : CH11 Tx

Note :



Site : site #1

Condition : Part15 C

Polarization: *Horizontal*

Company : W6M20705-8142

Power : AC 110V/60Hz

EUT Model: WHT-510

Distance: 3m

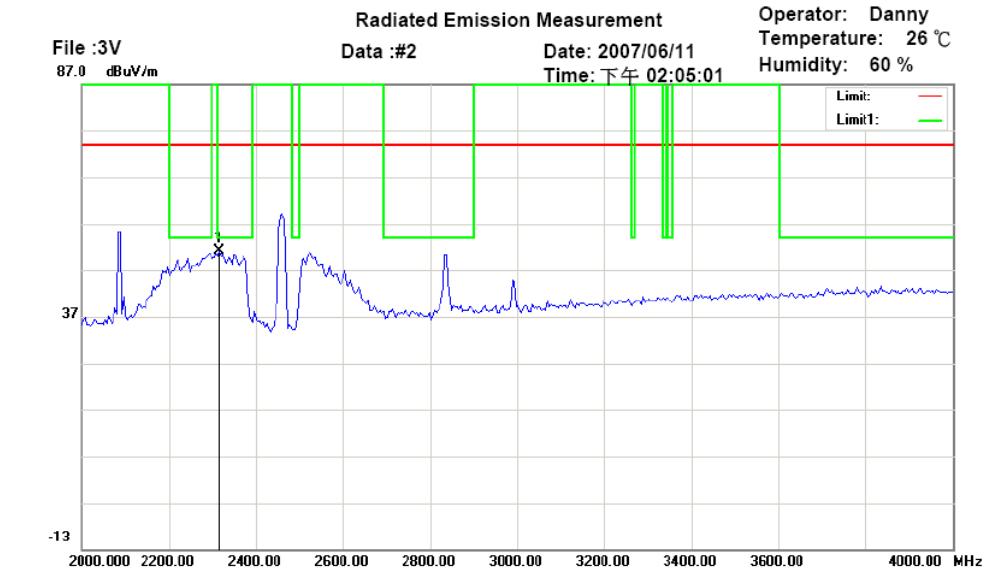
Execute Program : CH11 Tx

Note :

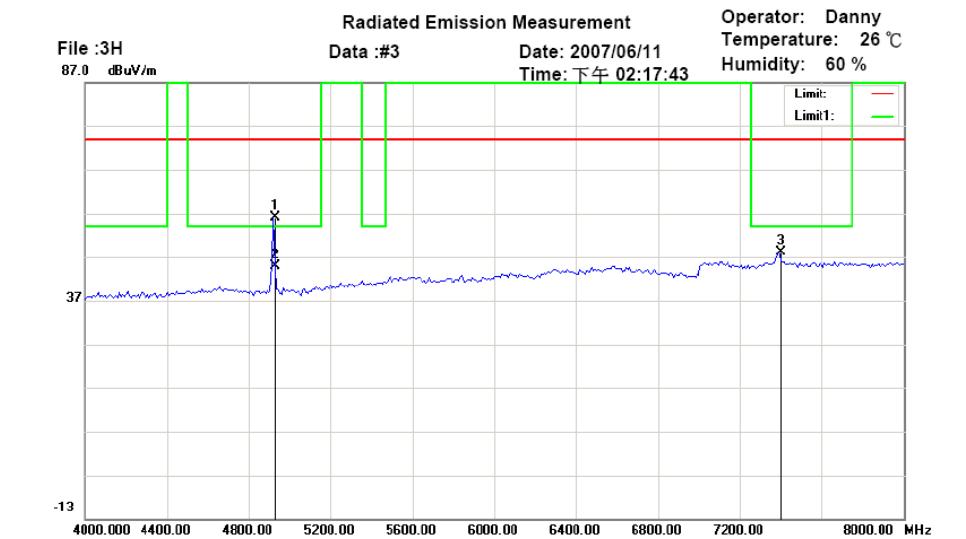
Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2352.705	56.45	peak	-5.34	51.11	74.00	123	150	-22.89	

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



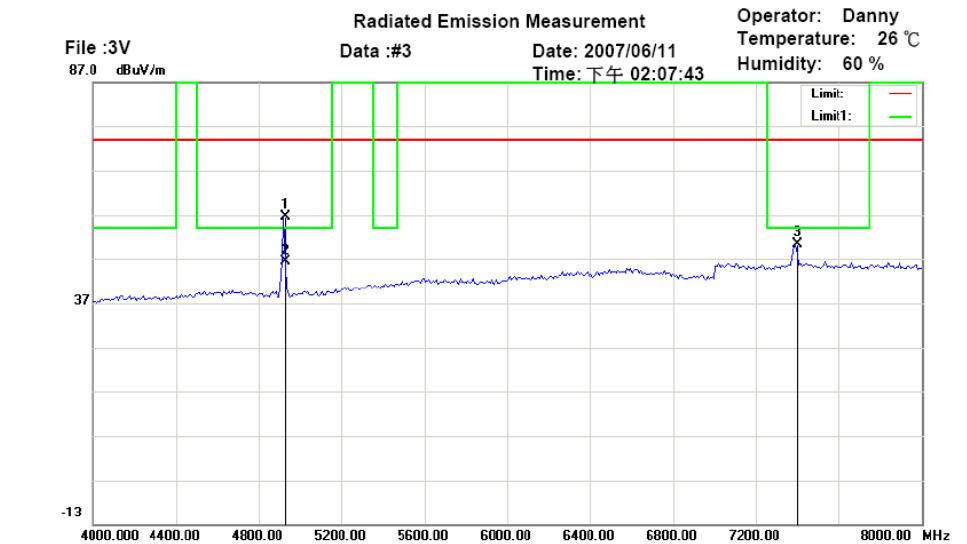
Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	2316.633	56.73	peak	-5.52	51.21	74.00	134	278	-22.79	



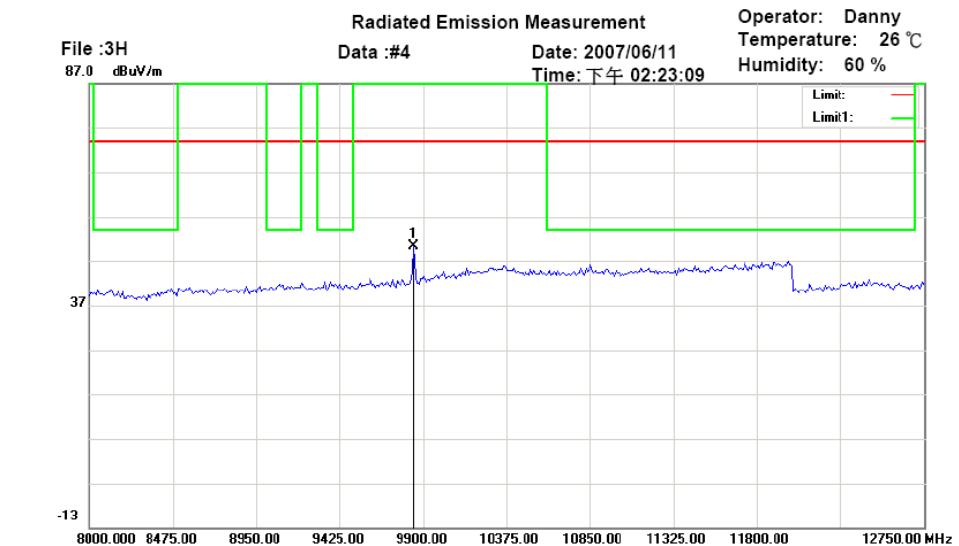
Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4923.874	57.38	peak	-1.20	56.18	74.00	128	155	-17.82	
*	4923.874	46.13	AVG	-1.20	44.93	54.00	128	155	-9.07	
	7390.782	46.07	peak	1.98	48.05	74.00	125	152	-25.95	

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



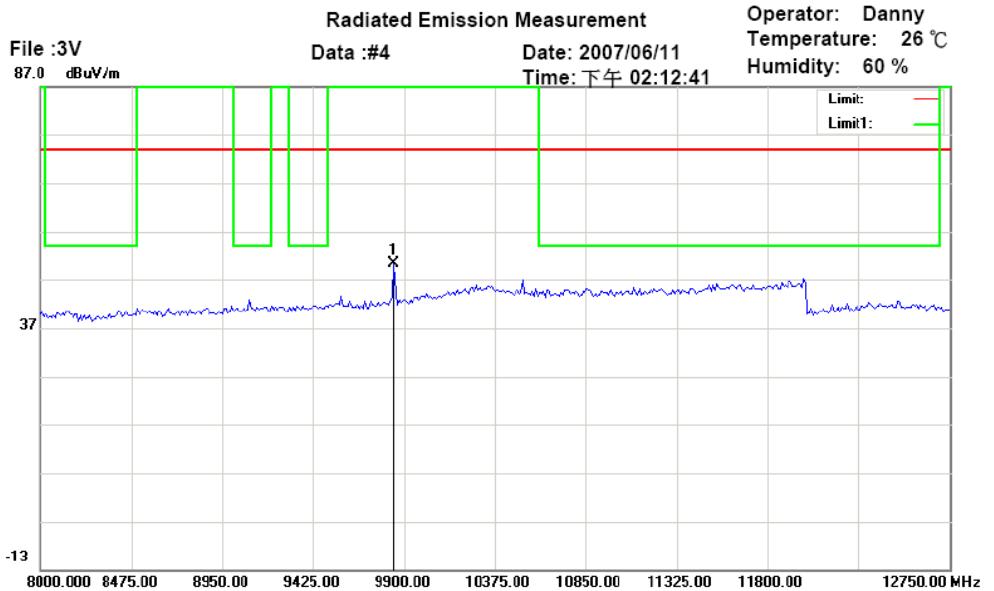
Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4923.780	57.87	peak	-1.20	56.67	74.00	137	280	-17.33	
*	4923.780	47.58	AVG	-1.20	46.38	54.00	137	280	-7.62	
	7390.782	48.35	peak	1.98	50.33	74.00	134	275	-23.67	



Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	9846.693	30.98	peak	19.48	50.46	74.00	122	146	-23.54	

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



Site : site #1

Condition : Part15 C

Polarization: *Vertical*

Company : W6M20705-8142

Power : AC 110V/60Hz

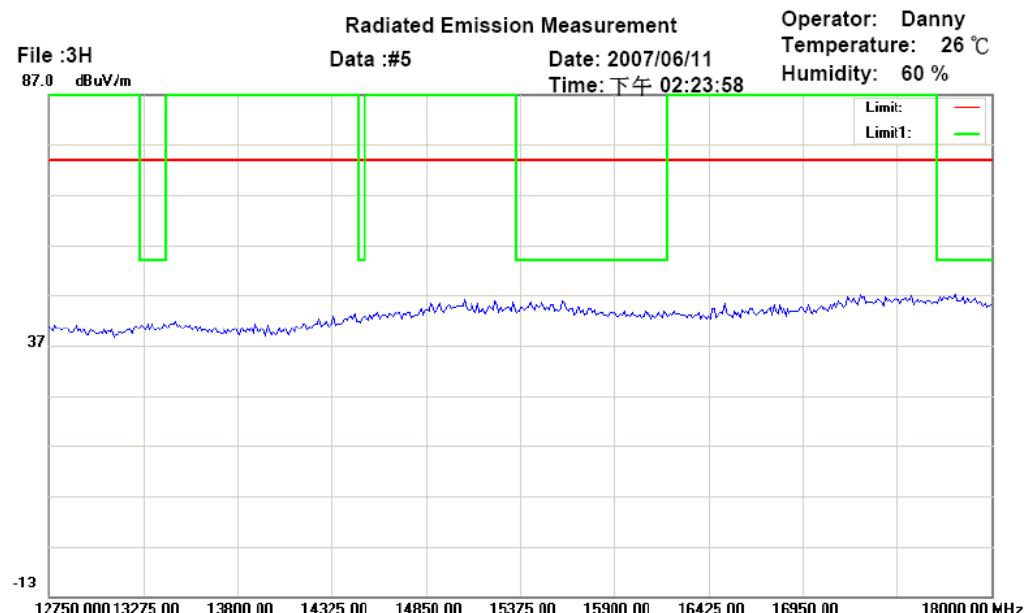
EUT Model: WHT-510

Distance: 3m

Execute Program : CH11 Tx

Note :

Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
*	9846.693	31.01	peak	19.48	50.49	74.00	133	275	-23.51	



Site : site #1

Condition : Part15 C

Polarization: *Horizontal*

Company : W6M20705-8142

Power : AC 110V/60Hz

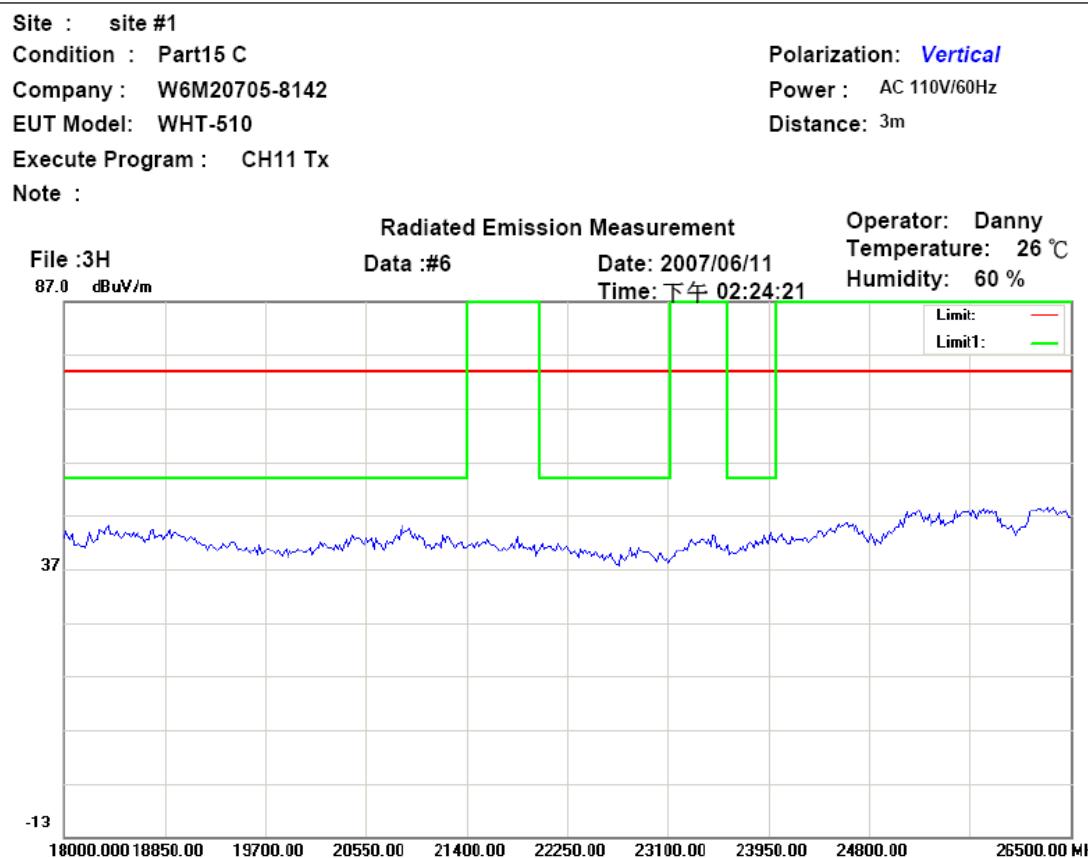
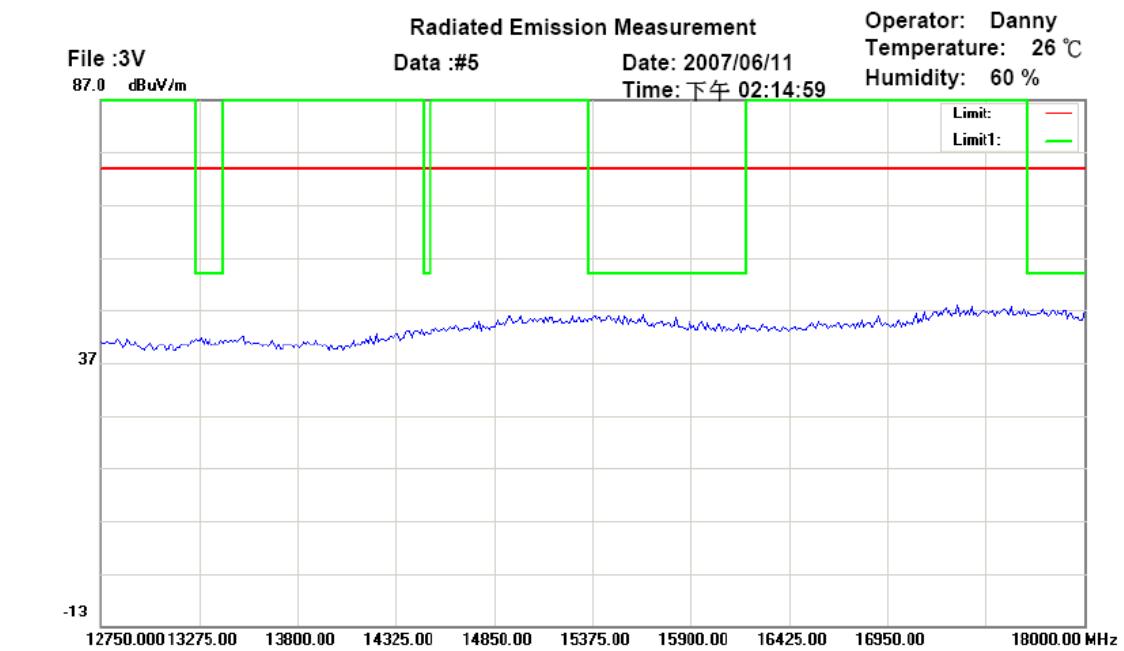
EUT Model: WHT-510

Distance: 3m

Execute Program : CH11 Tx

Note :

Registration number: W6M20705-8142-C-1  
FCC ID: R48WHT510



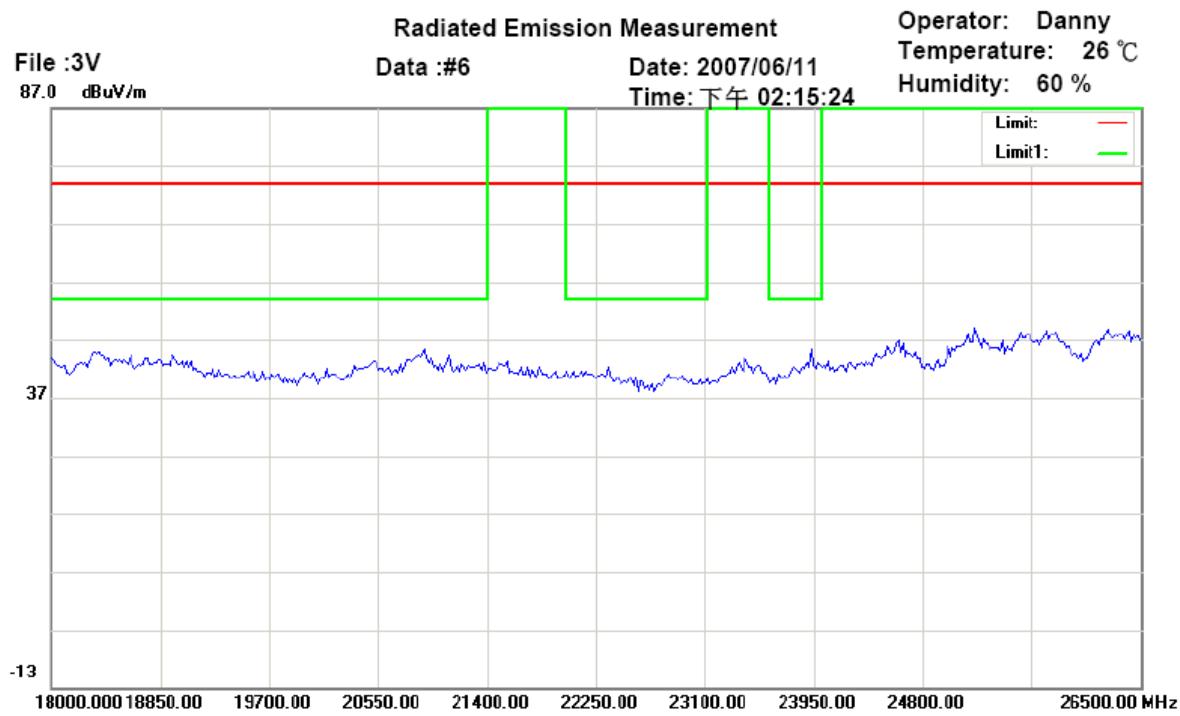
Site : site #1  
Condition : Part15 C  
Company : W6M20705-8142  
EUT Model: WHT-510  
Execute Program : CH11 Tx  
Note :

**Polarization: *Vertical***  
Power : AC 110V/60Hz  
Distance: 3m

**Polarization: *Horizontal***  
Power : AC 110V/60Hz  
Distance: 3m

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510



Site : site #1

Condition : Part15 C

Polarization: *Vertical*

Company : W6M20705-8142

Power : AC 110V/60Hz

EUT Model: WHT-510

Distance: 3m

Execute Program : CH11 Tx

Note :

**Note**

1. Correction Factor = Antenna factor + Cable loss - Preamplifier
2. The formula of measured value as: Test Result = Reading + Correction Factor
3. Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average
4. All not in the table noted test results are more than 20 dB below the relevant limits.

**TEST RESULT (Transmitter):** The unit DOES meet the FCC requirements.

Test equipment used: ETSTW-RE003 ETSTW-RE 004 ETSTW-RE 017 ETSTW-RE 028  
 ETSTW-RE029 ETSTW-RE 030 ETSTW-RE 042 ETSTW-RE 043  
 ETSTW-RE 044

Registration number: W6M20705-8142-C-1  
FCC ID: R48WHT510

### 3.6 Minimum 6 dB Bandwidth

The analyzer ResBW was set to 100 kHz. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. A PEAK reading was taken, two markers were set 6 dB below the maximum level on the right and the left side of the emission. The 6 dB bandwidth is the frequency difference between the two markers.

Test conditions	6 dB Bandwidth		
	Channel 1	Channel 6	Channel 11
T <sub>nom</sub> = 23°C    V <sub>nom</sub> = 110 V	12.756410256 MHz	12.692307692 MHz	12.596153846 MHz

#### Limits:

Frequency Range MHz	Limits
902-928	min 500 kHz
2400-2483.5	min 500 kHz
5725-5850	min 500 kHz

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 055

Comment: see attached diagrams in Appendix.

Registration number: W6M20705-8142-C-1

FCC ID: R48WHT510

### 3.7 Peak Power Spectral Density

Peak Power Spectral density is measured at low, middle and high channel.

The peak output power is measured with a measurement bandwidth of 10 MHz and displayed on diagram together with Peak Power Spectral Density result which was measured with a bandwidth of 3 kHz, appreciate frequency span and sweep time.

Test conditions		Peak Power Spectral Density (3 kHz)		
		Channel 1 [dBm]	Channel 6 [dBm]	Channel 11 [dBm]
T <sub>nom</sub> = 23°C	V <sub>nom</sub> = 110 V	-12.66	-11.53	-12.79

#### Limits:

Frequency Range MHz	dBm
902-928	8
2400-2483,5	8
5725-5850	8

Test equipment used: ETSTW-RE 003 ETSTW-RE 004 ETSTW-RE 055

Comment: see attached diagrams in Appendix.

Registration number: W6M20705-8142-C-1

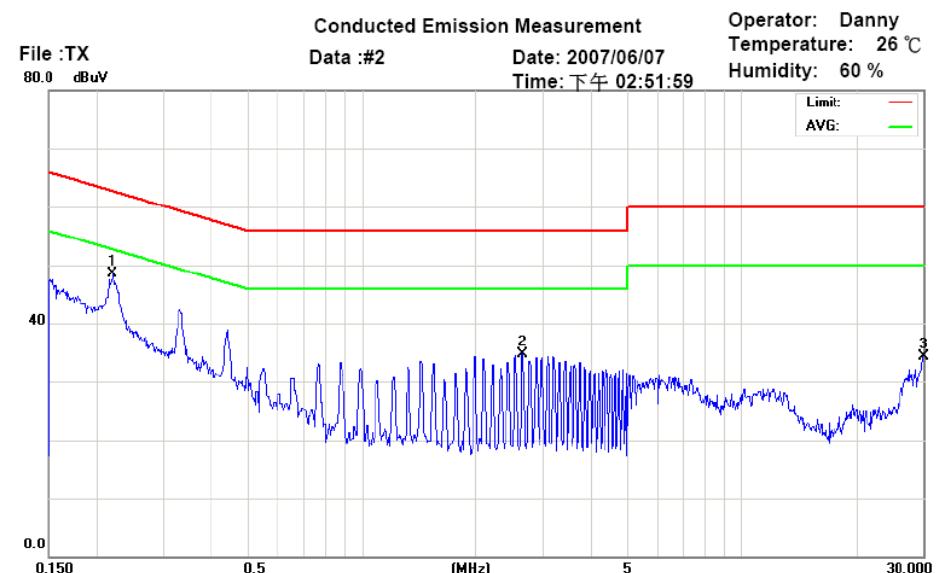
FCC ID: R48WHT510

### 3.8 Power Line Conducted Emission

For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the table below with this provision shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminals.

This measurement was transacted first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

Frequency	Level (dB $\mu$ V)	
	quasi-peak	average
150 kHz	lower limit line	Lower limit line



Site : site #1

Condition : FCC Class B Conduction(QP)

Phase: N

Company : W6M20705-8142

Power : AC 110V/60Hz

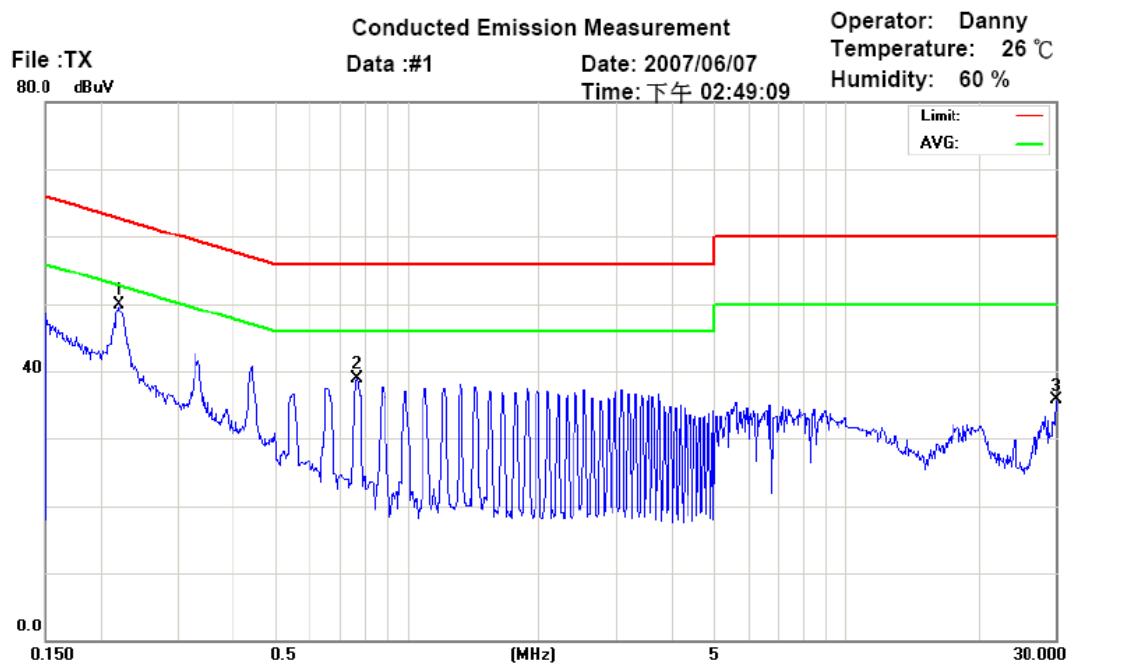
EUT Model: WHT-510

Execute Program : TX

Note :

Mk.	Frequency (MHz)	Reading (dB $\mu$ V)	Detector	Corrected factor(dB)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Comment
*	0.2204	38.33	peak	10.10	48.43	62.80	-14.37	
	2.6400	24.64	peak	10.10	34.74	56.00	-21.26	
	29.8611	24.29	peak	10.10	34.39	60.00	-25.61	

Registration number: W6M20705-8142-C-1  
FCC ID: R48WHT510



Site : site #1

Condition : FCC Class B Conduction(QP)

Phase: L1

Company : W6M20705-8142

Power : AC 110V/60Hz

EUT Model: WHT-510

Execute Program : TX

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
*	0.2200	39.90	peak	10.10	50.00	62.82	-12.82	
	0.7700	28.76	peak	10.10	38.86	56.00	-17.14	
	30.0000	25.56	peak	10.10	35.66	60.00	-24.34	

**Limits:**

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
0.15-0.5	Quasi Peak	Average
	66 to 56	56 to 46
	56	46
	60	50

Test equipment used: ETSTW-CE 001 ETSTW-CE 003 ETSTW-CE 004 ETSTW-CE 006  
ETSTW-CE 011

Registration number: W6M20705-8142-C-1  
FCC ID: R48WHT510

## **Appendix**

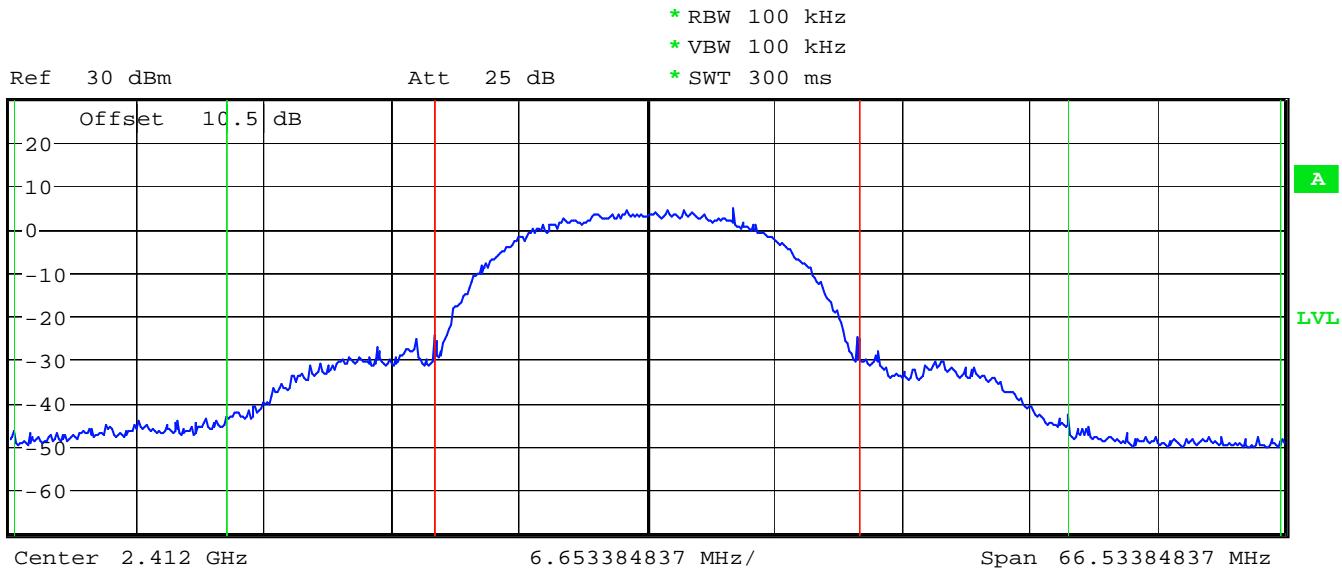
### **A      Measurement diagrams**

1. Peak Output Power
3. Band Edge Measurement
4. Minimum 6dB Bandwidth
5. Peak Power Spectral Density

### **B      Photos**

1. External Photos
2. Internal Photos
3. Set Up Photo of Radiated Emission
4. Set Up Photo of Conducted Emission

RS

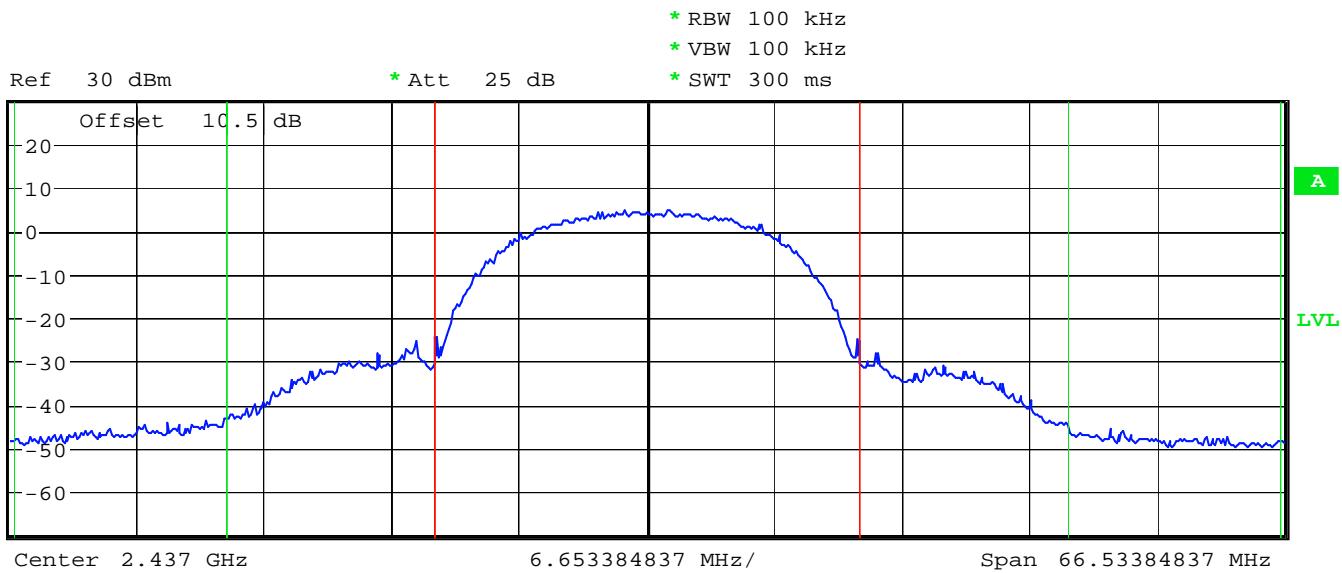


Tx Channel		WLAN 802.11B	
Bandwidth	22 MHz	Power	22.99 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-34.75 dB
Spacing	16.5 MHz	Upper	-36.63 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-49.66 dB
Spacing	27.5 MHz	Upper	-51.78 dB

MAX OUTPUT POWER 802.11b CH1

Date: 6.JUN.2007 12:59:57

RS

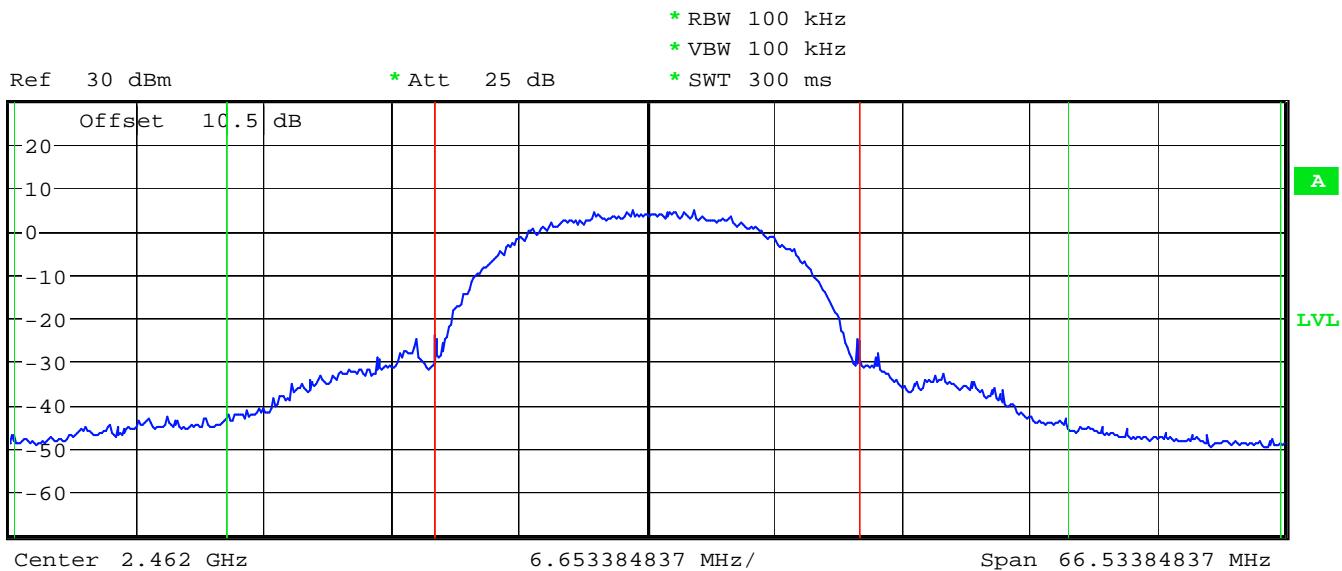


Tx Channel		WLAN 802.11B	
Bandwidth	22 MHz	Power	23.60 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-35.57 dB
Spacing	16.5 MHz	Upper	-37.60 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-50.14 dB
Spacing	27.5 MHz	Upper	-51.79 dB

MAX OUTPUT POWER 802.11b CH6

Date: 6.JUN.2007 13:17:36

RS

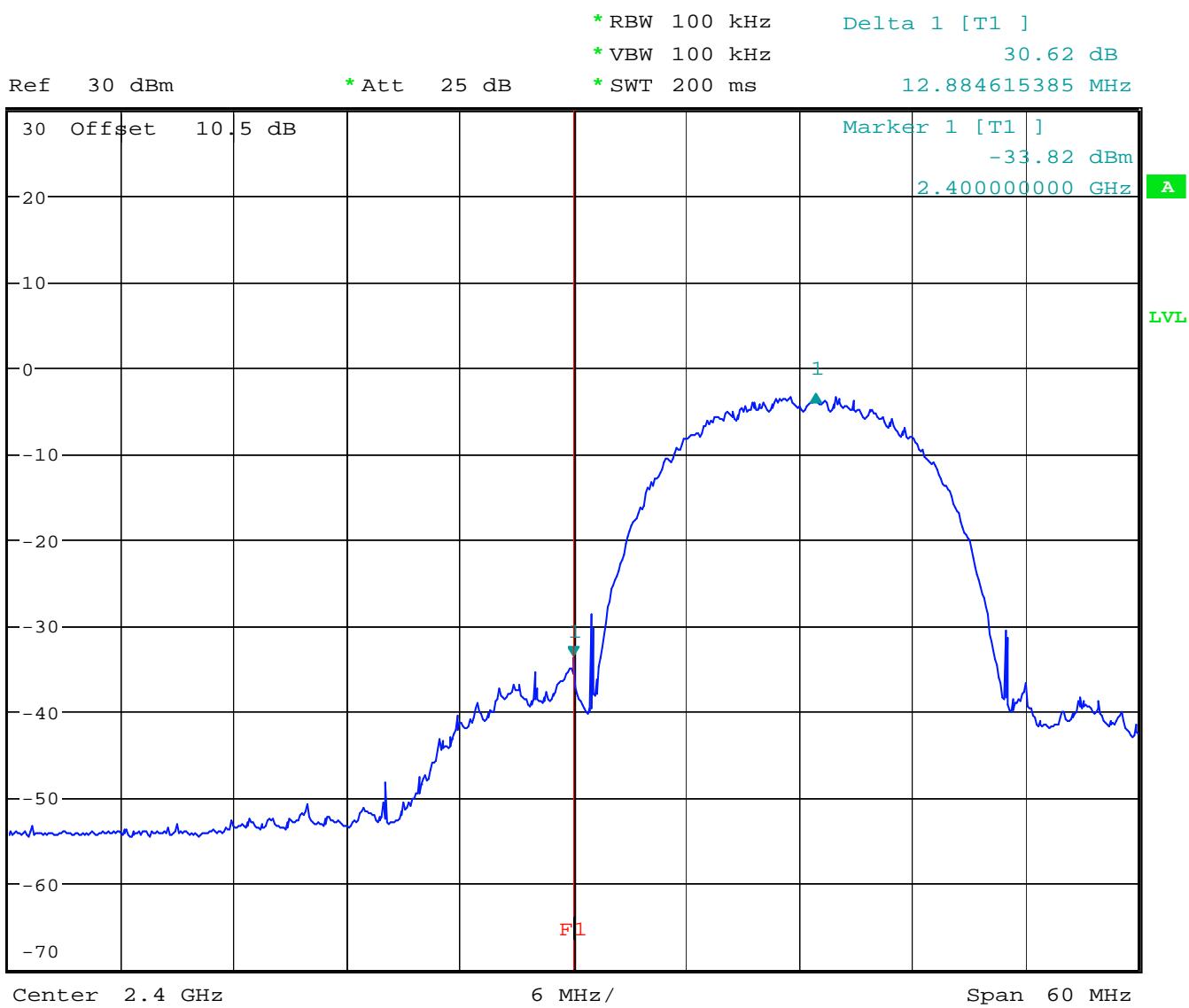


Tx Channel		WLAN 802.11B	
Bandwidth	22 MHz	Power	23.38 dBm
Adjacent Channel			
Bandwidth	11 MHz	Lower	-36.02 dB
Spacing	16.5 MHz	Upper	-38.61 dB
Alternate Channel			
Bandwidth	11 MHz	Lower	-49.17 dB
Spacing	27.5 MHz	Upper	-51.02 dB

MAX OUTPUT POWER 802.11b CH11

Date: 6.JUN.2007 13:31:11

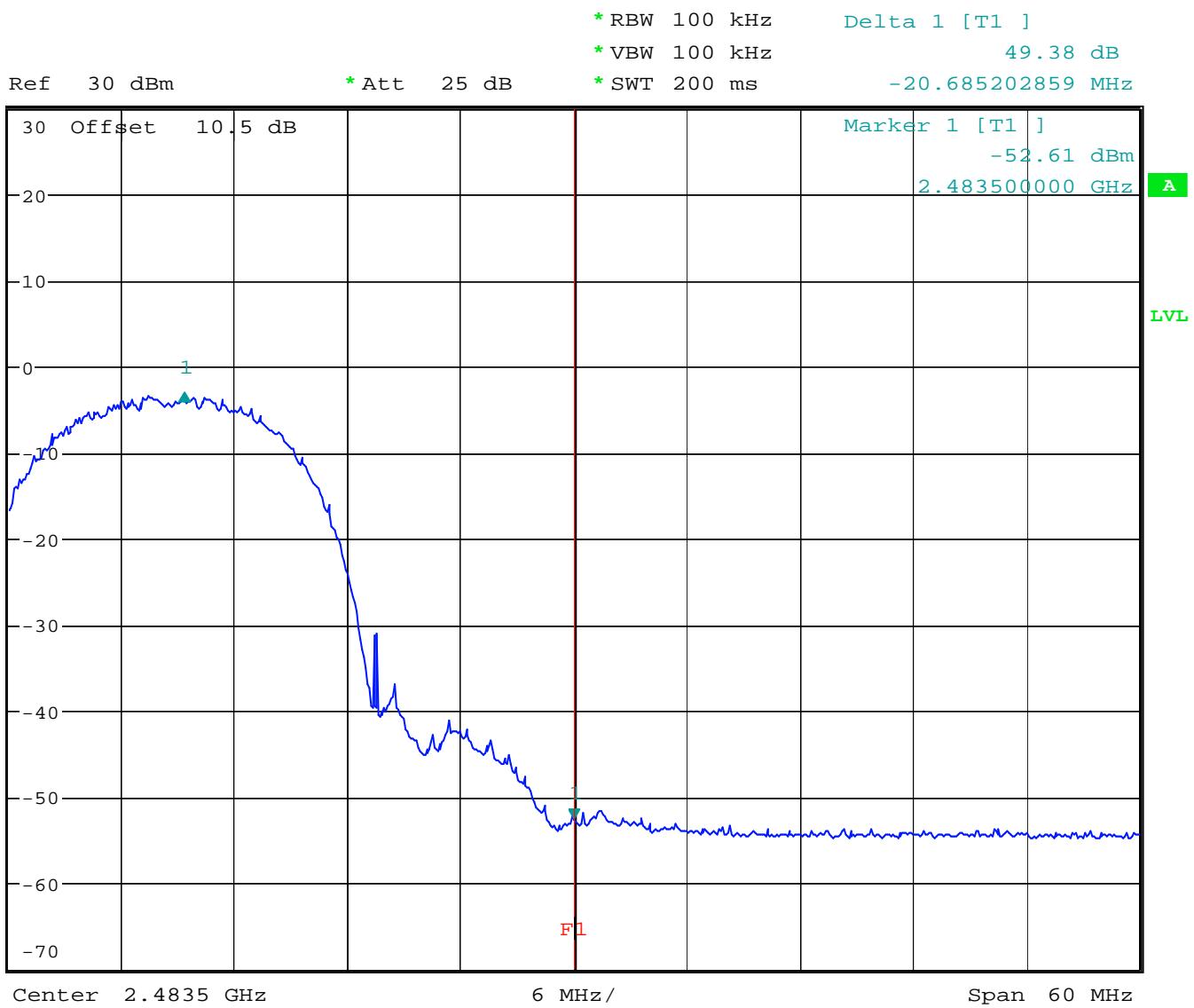
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BANDEdge 802.11b CH1

Date: 6.JUN.2007 13:11:03

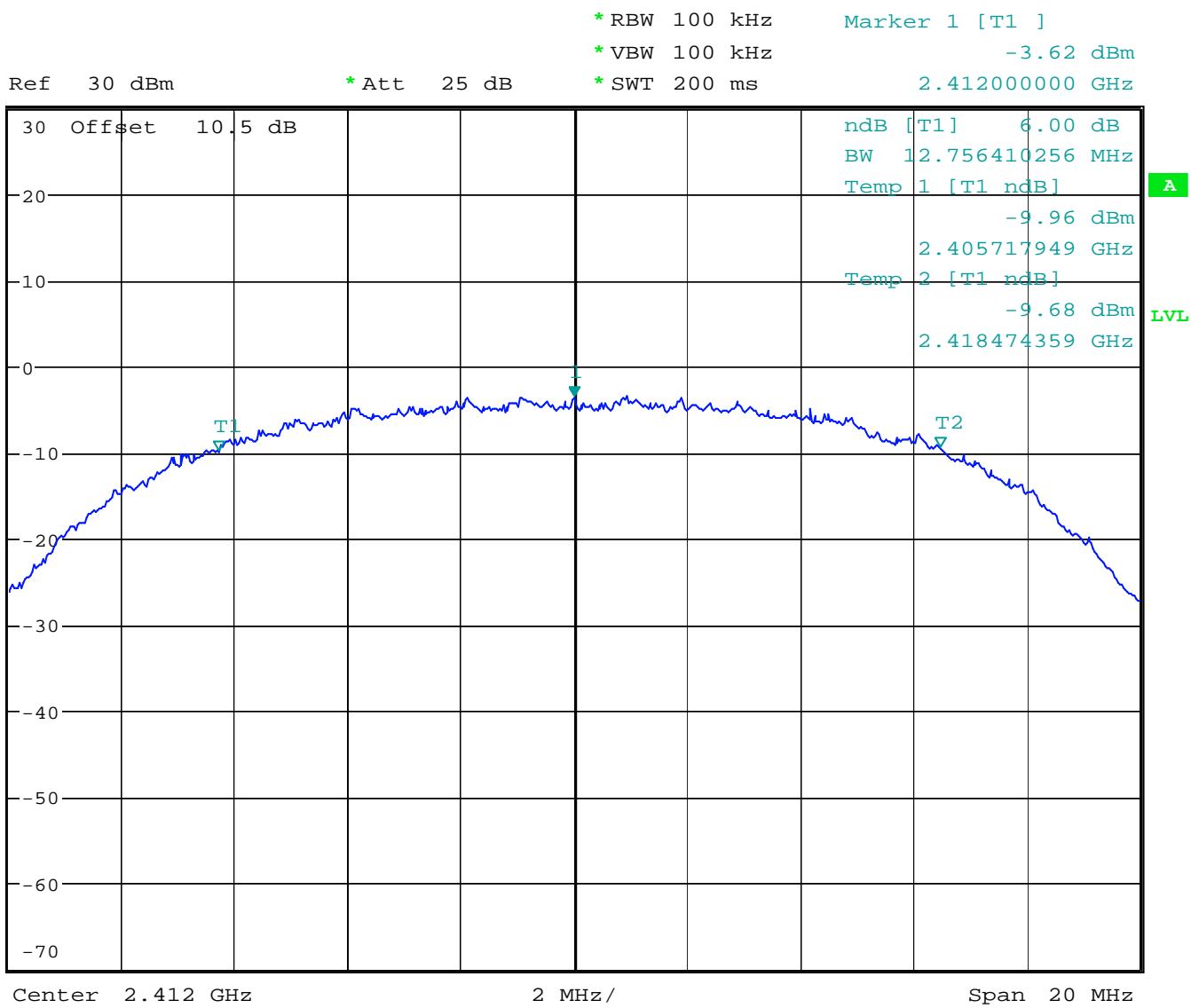
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BANDEdge 802.11b CH11

Date: 6.JUN.2007 13:39:09

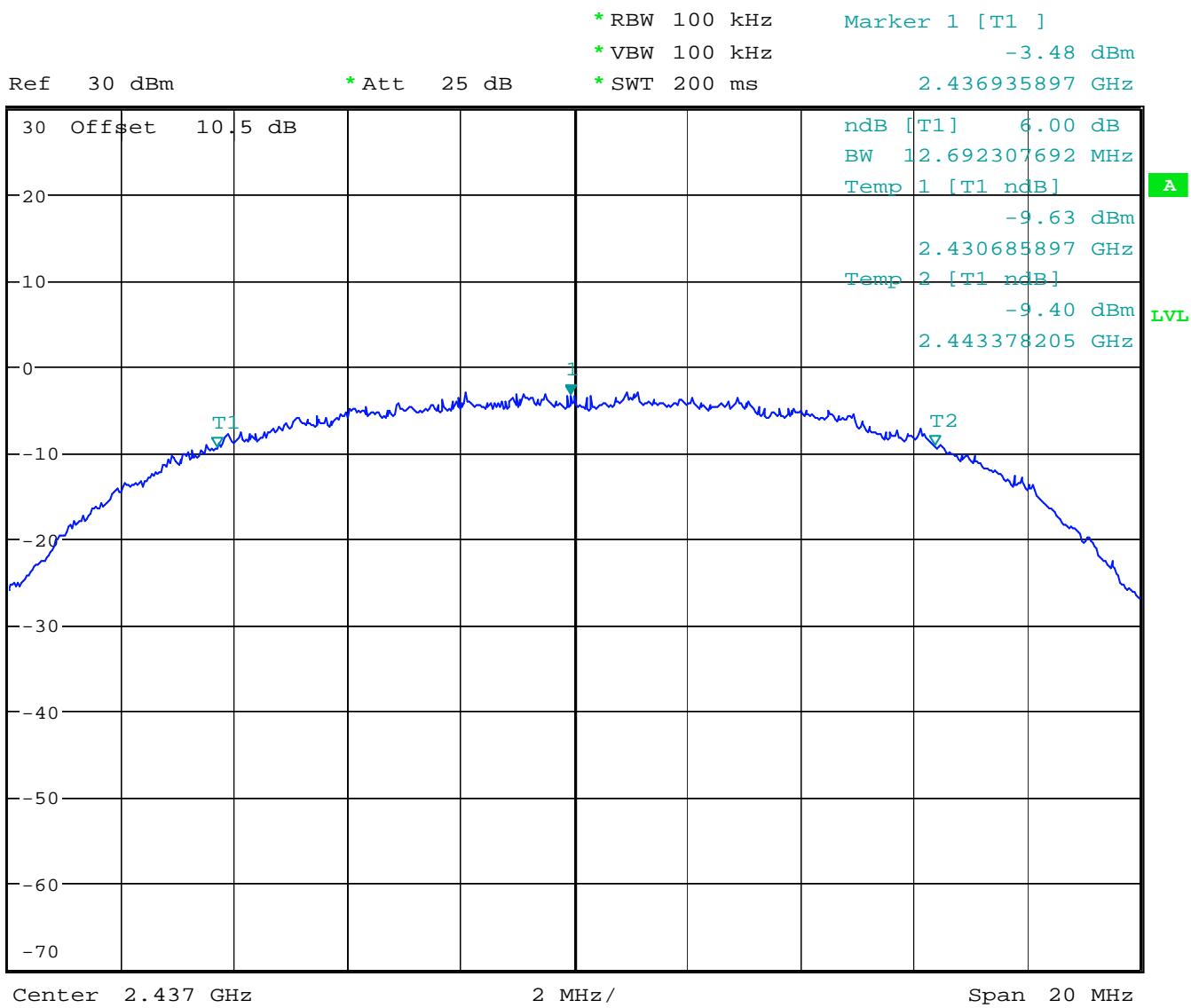
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6dB BANDWIDTH 802.11b CH1

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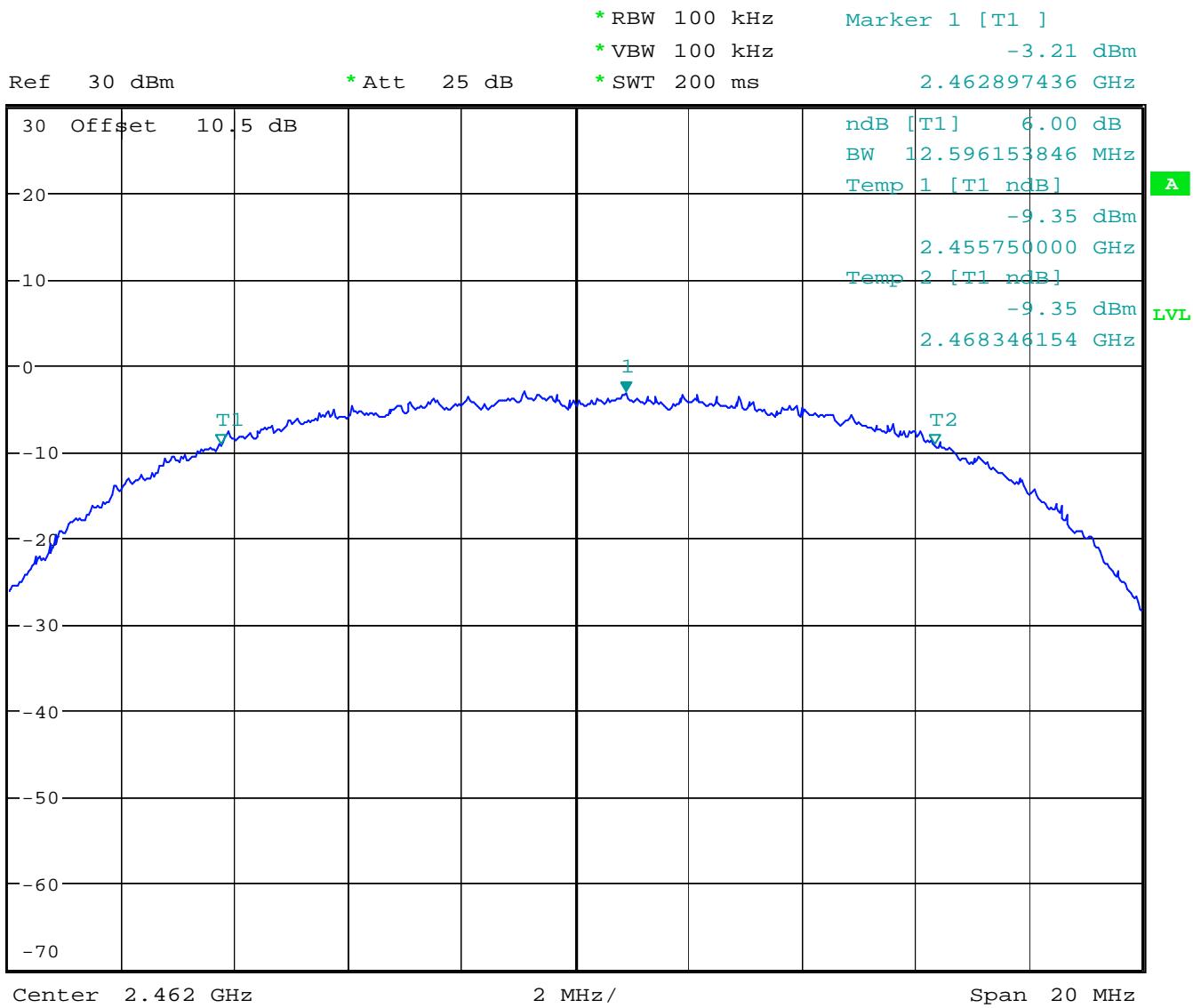
RS



6dB BANDWIDTH 802.11b CH6

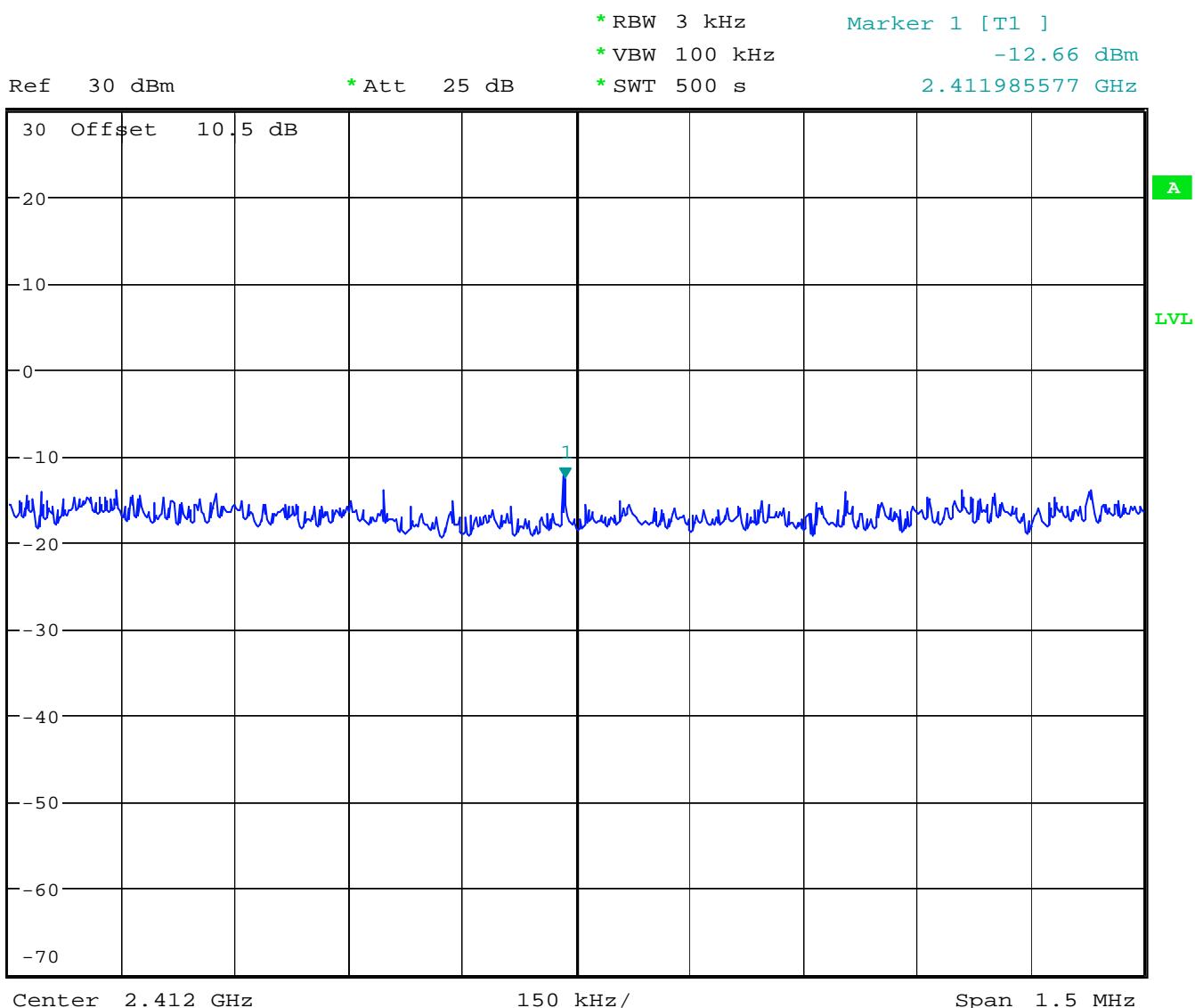
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RS



6dB BANDWIDTH 802.11b CH11  
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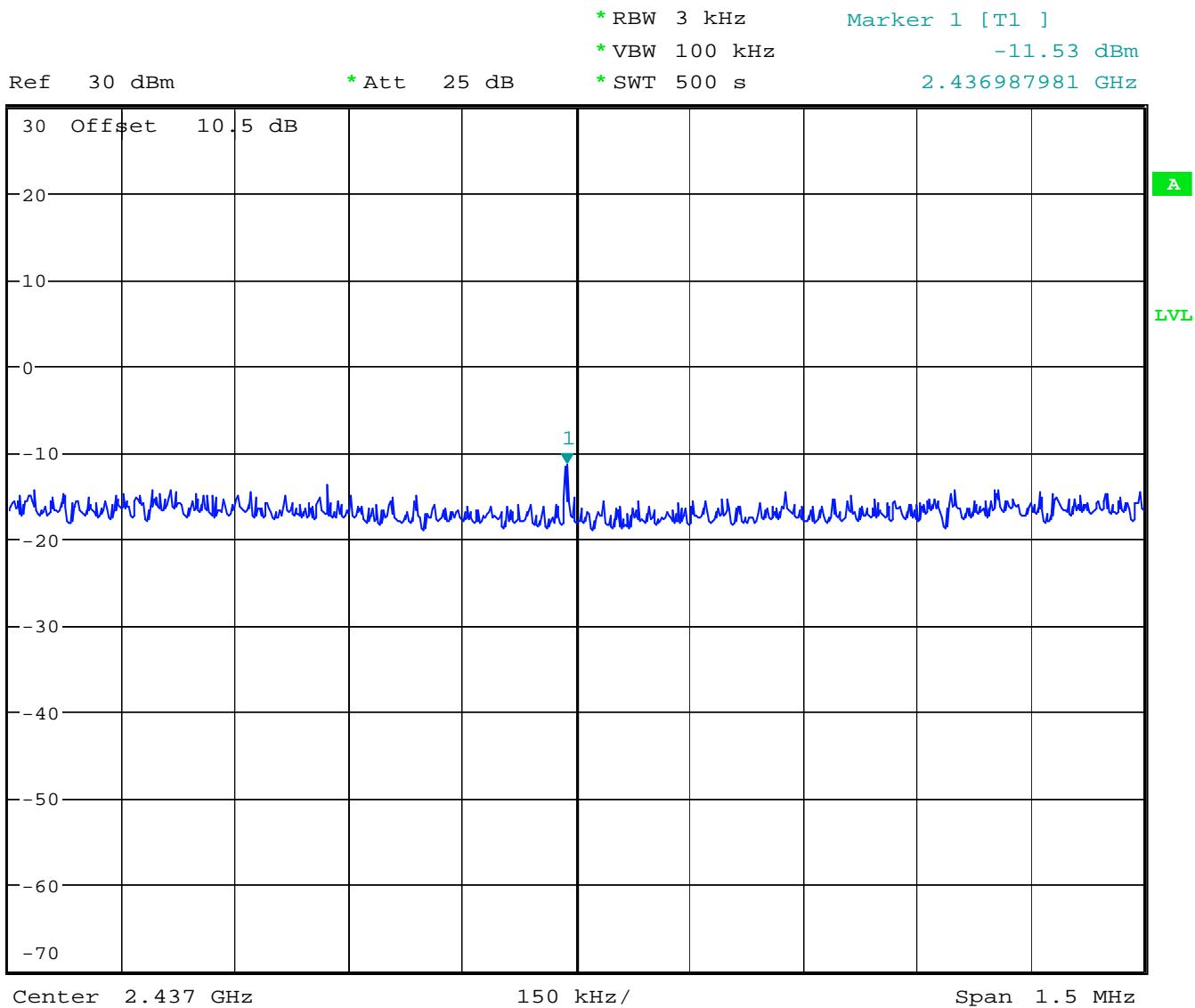
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POWER DENSITY 802.11b CH1

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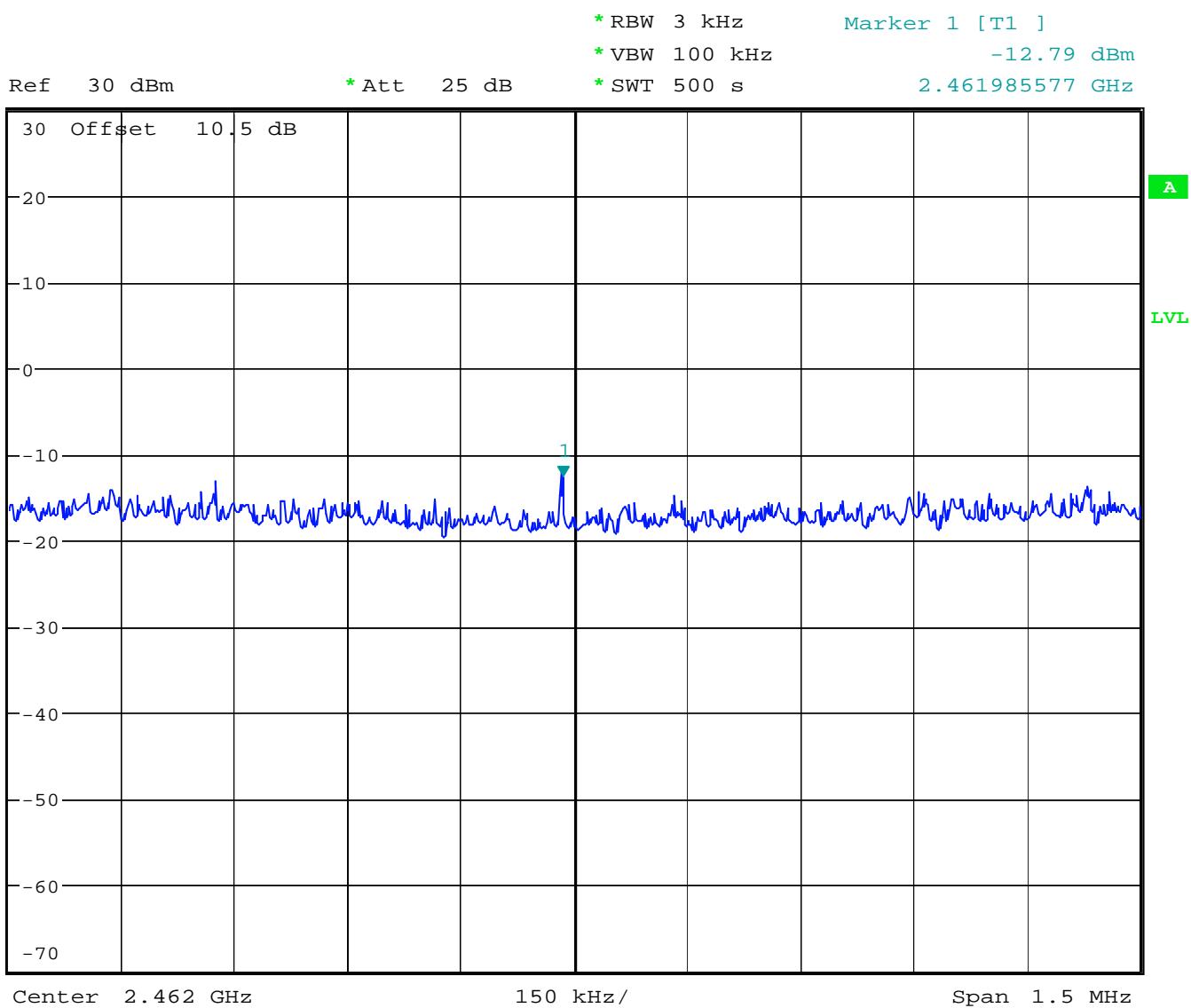
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POWER DENSITY 802.11b CH6

Date: 6.JUN.2007 13:47:48

RS



POWER DENSITY 802.11b CH11  
Date: 6.JUN.2007 13:41:17