

# **FCC PART 15 SUBPART C TEST REPORT**

**For**

**iShowCast**

**Model No.: MTV2000**

of

**Applicant: iCIRROUND Inc.**

**Address: 4F., No.14, Ln. 123, Sec. 6, Minquan E. Rd., Neihu Dist.,  
Taipei City 114, Taiwan**

Tested and Prepared

by

**Worldwide Testing Services (Taiwan) Co., Ltd.**

**FCC Registration No.: 930600**

**Industry Canada filed test laboratory Reg. No. IC 5679A-1**

**A2LA Accredited No.: 2732.01**



**Report No.: W6M21308-13478-C-1**

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.  
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# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

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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 Worldwide Testing Services(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.

The test sample is able to work according IEEE 802.11 a/b/g/n.

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

#### Tester:

October 15, 2013

Rick Chen

Rick Chen

Date

WTS-Lab.

Name

Signature

#### Technical responsibility for area of testing:

October 15, 2013

Kevin Wang

Kevin Wang

Date

WTS

Name

Signature



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## **1.2 Testing laboratory**

### **1.2.1 Location**

OATS

No.5-1, Lishui, Shuang Sing Village,  
Wanli Dist., New Taipei City 207,  
Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No.35, Aly. 21, Ln. 228, Ankang Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

TEL:886-2-6613-0228

FAX:886-2-2791-5046

Company

Worldwide Testing Services(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: 2732.01

FCC filed test laboratory Reg. No. 930600

Industry Canada filed test laboratory Reg. No. IC 5679A-1



**Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :**

Name: ./.

Accredited number: ./.

Street: ./.

Town: ./.

Country: ./.

Telephone: ./.

Fax: ./.

## **1.3 Details of approval holder**

Name: iCIRROUND Inc.

Street: 4F., No.14, Ln. 123, Sec. 6, Minquan E. Rd., Neihu Dist.,

Town: Taipei City 114,

Country: Taiwan

Telephone: 02-7745-5562

Fax: 02-2797-7419



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## **1.4 Application details**

Date of receipt of test item: September 18, 2013  
Date of test: from September 23, 2013 to October 15, 2013

## **1.5 General information of Test item**

Type of test item: iShowCast  
Model Number: MTV2000  
Brand Name: iCIRROUND  
Multi-listing model number: ./.  
Photos: see Appendix

### **Technical data**

Frequency band: 2.4 GHz – 2.4835 GHz / 5.745 GHz – 5.825 GHz

#### **802.11b, g, n 20MHz**

Frequency ( ch 1): 2.412 GHz  
Frequency ( ch 6 ): 2.437 GHz  
Frequency ( ch 11): 2.462 GHz

#### **802.11n 40MHz**

Frequency ( ch 1 ): 2.422 GHz  
Frequency ( ch 4 ): 2.437 GHz  
Frequency ( ch 7 ): 2.452 GHz

#### **802.11a, n 20MHz**

Frequency ( ch 149): 5.745 GHz  
Frequency ( ch 157): 5.785 GHz  
Frequency ( ch 165): 5.825 GHz

#### **802.11n 40MHz**

Frequency ( ch 151): 5.755 GHz  
Frequency ( ch 159): 5.795 GHz

Number of Channels: **2.4GHz**

11b, 11g, 11n 20MHz: 11 channels

11n 40MHz: 7channels

#### **5.745 ~ 5.825 GHz**

11a, 11n 20MHz : 5 channels

11n 40MHz: 2channels

Operation modes: duplex

Modulation Type: DSSS / OFDM

Fixed point-to-point operation:  Yes /  No

Type of Antenna: PCB Antenna



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Antenna gain: ANT A (ANT 1): 4.2 dBi / ANT B (ANT 2): 3.2 dBi

Directional gain: 6.72 dBi

According to KDB 662911, Unequal antenna gains, with equal transmit powers. For antenna gains given by  $G_1$ ,  $G_2$ , ...,  $G_N$  dBi. If transmit signals are correlated, then Directional gain  
 $= 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N]$  dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

Power supply: Adapter: (I/P: 100-240V~ / 50-60Hz / 0.2A; O/P: +5V / 1A)

Emission designator: **2.4GHz**

802.11b: DSSS: 17M0G1D

802.11g: OFDM: 17M6D1D

802.11n 20MHz: OFDM: 19M0D1D

802.11n 40MHz: OFDM: 37M6D1D

**5.745 ~ 5.825 GHz**

802.11a: OFDM: 19M4D1D

802.11n 20MHz: OFDM: 20M0D1D

802.11n 40MHz: OFDM: 37M6D1D

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"/>
Modular Radio Device	<input type="checkbox"/>

## Transmitter

### **ANT A (ANT 1)**

#### **Mode A (802.11b)**

Power ( ch 1 or A): Conducted: 22.70 dBm

Power ( ch 6 or B): Conducted: 23.00 dBm

Power ( ch 11 or C): Conducted: 23.25 dBm

#### **Mode B (802.11g)**

Power ( ch 1 or A): Conducted: 23.49 dBm

Power ( ch 6 or B): Conducted: 23.57 dBm

Power ( ch 11 or C): Conducted: 23.88 dBm

## Unom

### **Mode C (802.11n 20 MHz)**

Power ( ch 1 or A): Conducted: 22.98 dBm

Power ( ch 6 or B): Conducted: 23.10 dBm

Power ( ch 11 or C): Conducted: 23.56 dBm



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## **Mode D (802.11n 40 MHz)**

Power ( ch 1 or A):	Conducted: 22.74 dBm
Power ( ch 4 or B):	Conducted: 22.84 dBm
Power ( ch 7 or C):	Conducted: 23.05 dBm

## **Mode E (802.11a)**

Power ( ch 149 or A):	Conducted: 21.50 dBm
Power ( ch 157 or B):	Conducted: 21.68 dBm
Power ( ch 165 or C):	Conducted: 22.20 dBm

## **Mode F (802.11n 20MHz)**

Frequency ( ch 149 or A):	Conducted: 21.06 dBm
Frequency ( ch 157 or B):	Conducted: 21.38 dBm
Frequency ( ch 165 or C):	Conducted: 22.18 dBm

## **Mode G (802.11n 40MHz)**

Frequency ( ch 151 or A):	Conducted: 21.33 dBm
Frequency ( ch 159 or B):	Conducted: 21.33 dBm

## **ANT B (ANT 2)**

### **Mode A (802.11b)**

Power ( ch 1 or A):	Conducted: 21.84 dBm
Power ( ch 6 or B):	Conducted: 22.39 dBm
Power ( ch 11 or C):	Conducted: 22.70 dBm

### **Mode B (802.11g)**

Power ( ch 1 or A):	Conducted: 22.25 dBm
Power ( ch 6 or B):	Conducted: 22.85 dBm
Power ( ch 11 or C):	Conducted: 23.39 dBm

### **Mode C (802.11n 20 MHz)**

Power ( ch 1 or A):	Conducted: 22.11 dBm
Power ( ch 6 or B):	Conducted: 22.65 dBm
Power ( ch 11 or C):	Conducted: 23.05 dBm

### **Mode D (802.11n 40 MHz)**

Power ( ch 1 or A):	Conducted: 22.08 dBm
Power ( ch 4 or B):	Conducted: 22.33 dBm
Power ( ch 7 or C):	Conducted: 22.58 dBm

### **Mode E (802.11a)**

Power ( ch 149 or A):	Conducted: 22.05 dBm
Power ( ch 157 or B):	Conducted: 21.78 dBm
Power ( ch 165 or C):	Conducted: 21.40 dBm



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## **Mode F (802.11n 20MHz)**

Frequency ( ch 149 or A): Conducted: 21.98 dBm

Frequency ( ch 157 or B): Conducted: 21.65 dBm

Frequency ( ch 165 or C): Conducted: 21.28 dBm

## **Mode G (802.11n 40MHz)**

Frequency ( ch 151 or A): Conducted: 21.67 dBm

Frequency ( ch 159 or B): Conducted: 21.27 dBm

Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz(2.4GHz)	361.16	388.25	428.83	25.58	25.89	26.32
802.11n 40MHz	349.37	363.31	382.97	25.43	25.60	25.83
802.11n 20MHz(5.745 ~ 5.825 GHz)	285.40	283.62	299.48	24.55	24.53	24.76
802.11n 40MHz	282.72	./.	269.80	24.51	./.	24.31

## **Manufacturer: (if applicable)**

Name: Shen Shen Electronic Co., Ltd.

Street: No.28, Ln. 285, Yingtao Rd., Yingge Dist.,

Town: New Taipei City 23943,

Country: Taiwan (R.O.C.)

## **1.6 Test standards**

Technical standard : FCC RULES PART 15 SUBPART C § 15.247 (2011-10)



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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:                          Adapter: (I/P: 100-240V~ / 50-60Hz / 0.2A; O/P: +5V / 1A)

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	2013/9/2	2014/9/1
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	2012/12/21	2013/12/20
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2013/3/4	2014/3/3
ETSTW-CE 007	SPECTRUM ANALYZER 5GHz	FSB	849670/001	R&S	Pre-test Use	
ETSTW-CE 008	HF-EICHLEITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function Test	
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2013/7/10	2014/7/9
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2013/9/2	2014/9/1
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2013/9/2	2014/9/1
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function Test	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2013/10/4	2014/10/3
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2013/7/3	2014/7/2
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2013/3/4	2014/3/3
ETSTW-RE 045	ESA-E SERIES SPECTRUM ANALYZER	E4404B	MY45111242	Agilent	Pre-test Use	
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2013/3/21	2014/3/20
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2013/5/31	2014/5/30
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2013/3/4	2014/3/3
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2012/11/28	2013/11/27
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	EMCO	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2013/10/4	2014/10/3
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2013/10/4	2014/10/3
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2013/3/4	2014/3/3
ETSTW-RE 106	Humidity Temperature Meter	TES-1366	091011113	TES	2012/12/4	2013/12/3
ETSTW-RE 111	TRILOG Super Broadband test Antenna	VULB 9160	9160-3309	Schwarzbeck	2012/12/13	2013/12/12
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	None	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2013/1/11	2014/1/10
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	

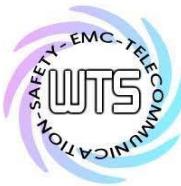


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ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2013/6/28	2014/6/27
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2013/8/16	2014/8/15
ETSTW-RE 126	5GHz Notch filter	5NSL11-5800/E221.3-O/O	1	K&L Microwave	2013/8/16	2014/8/15
ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2013/3/4	2014/3/3
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circits	2013/8/13	2014/8/12
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circits	2013/8/13	2014/8/12
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2013/10/4	2014/10/3
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40/12+9SS	3	WI	2013/1/11	2014/1/10
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2013/1/11	2014/1/10
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2013/1/11	2014/1/10
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2013/1/11	2014/1/10
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2013/9/18	2014/9/17
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2013/3/4	2014/3/3
ETSTW-Cable 011	BNC Cable	BNC Cable 1	None	JYE BAO CO.,LTD.	Pre-test Use NCR	
ETSTW-Cable 012	N TYPE To SMA Cable	Cable 012	None	JYE BAO CO.,LTD.	2013/3/4	2014/3/3
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2013/3/4	2014/3/3
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2013/3/26	2014/3/25
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2013/3/4	2014/3/3
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2013/3/4	2014/3/3
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2013/10/4	2014/10/3
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2013/10/4	2014/10/3
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2013/3/4	2014/3/3
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104 (S_Cable 10)	238092	HUBER+SUHNER	2012/11/28	2013/11/27
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2012/11/28	2013/11/27
ETSTW-Cable 047	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2012/11/28	2013/11/27
ETSTW-Cable 053	N TYPE To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2013/3/26	2014/3/25
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2013/6/20	2014/6/19
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMCA	None	Farad	Version ETS-03A1	



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## 2.4 General Test Procedure

**POWER LINE CONDUCTED INTERFERENCE:** The procedure used was ANSI STANDARD C63.4-2009 5.2 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 C63.4-2009 6.4 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 EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m (non metallic table) and arranged according to ANSI C63.4-2009 6.3.1. 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 Worldwide Testing Services(Taiwan) Co., Ltd. at the registered open field test site located at No.5-1, Lishui, Shuang Sing Village, Wanli Dist., New Taipei City 207, Taiwan (R.O.C.). The Registration Number: 930600.

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.



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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:

$$\text{Average} = \text{Peak} + \text{Duty Factor}$$

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

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

ANSI STANDARD C63.4-2009 10.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## **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 isotropically 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): 15.209	<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(d)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Peak Power Spectral Density	15.247(e)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiated Emission from Digital Part	15.109	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power Line Conducted Emission	15.207	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

### **Note:**

1. This EUT incorporates a MIMO function with IEEE 802.11a, 802.11b, 802.11g, and 802.11n. Physically, this EUT includes two transmitters and two receivers with two incoherent streams. This device uses multiplexing and also employ cyclic delay diversity to improve range and throughput, and this device simultaneously operates on two adjacent channels.
2. This EUT is 2\*2 spatial MIMO (2Tx&2Rx) without beam forming function. That operates dual chain configuration. The Pre-test was performed to determine the worst case mode from all possible combinations between all available modulations, data rates, bandwidths, and spatial stream modes.



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## 3.1 Peak Output Power (transmitter)

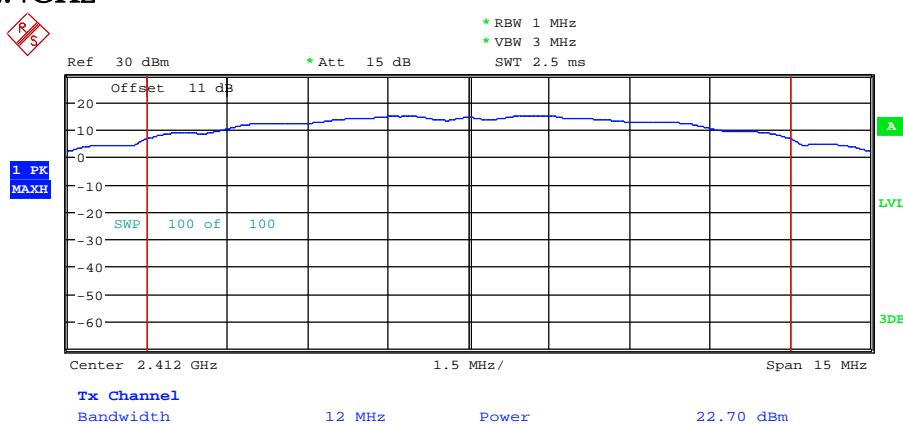
FCC Rule: 15.247(b)(3)

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).

ANT A (ANT 1)

WLAN 2.4GHz



MAX OUTPUT POWER 802.11B CH01

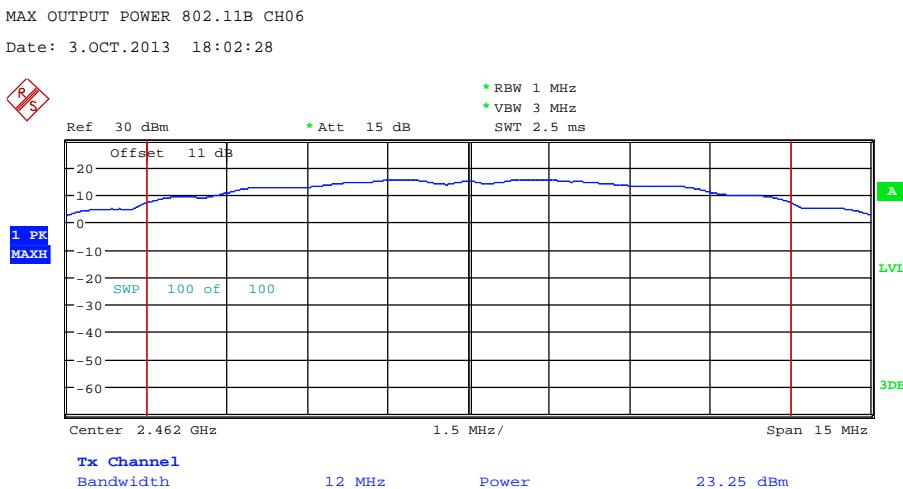
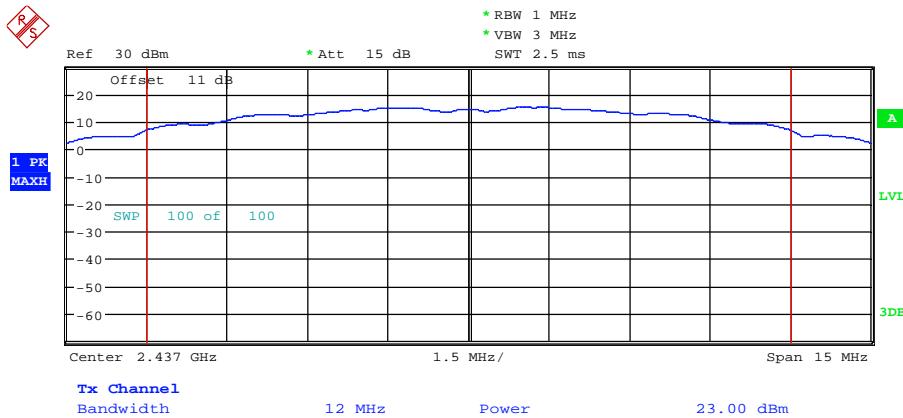
Date: 3.OCT.2013 18:01:14



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11B CH11

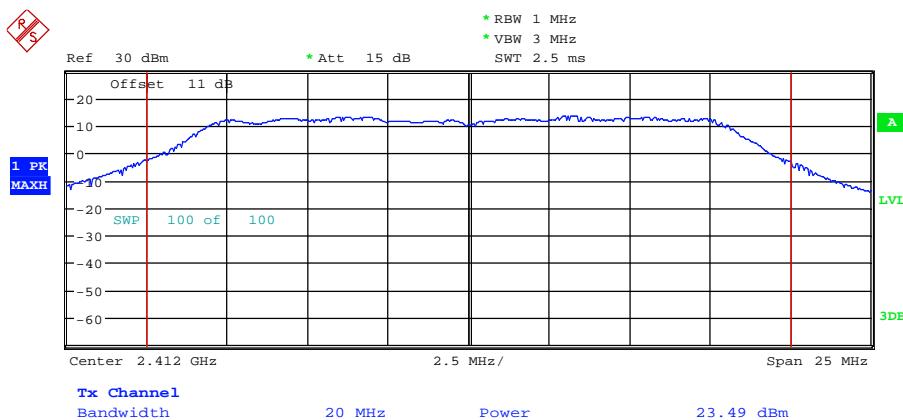
Date: 3.OCT.2013 18:03:15



# Worldwide Testing Services(Taiwan) Co., Ltd.

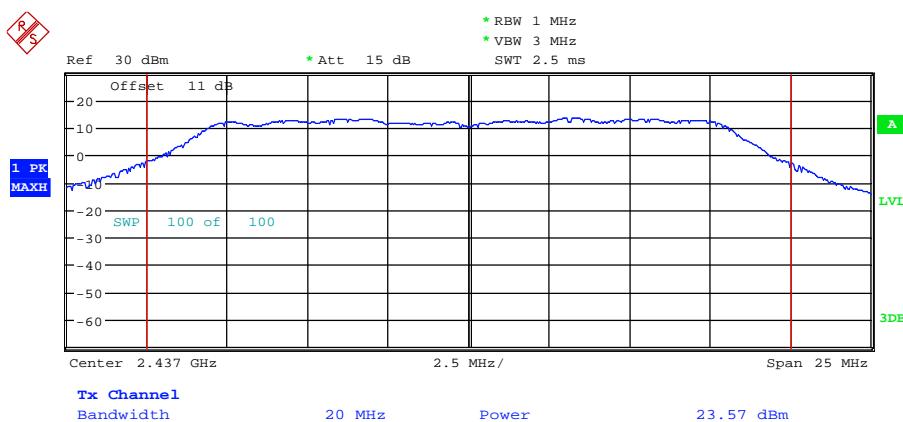
Registration number: W6M21308-13478-C-1

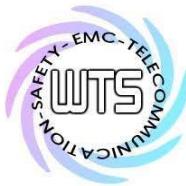
FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11G CH01

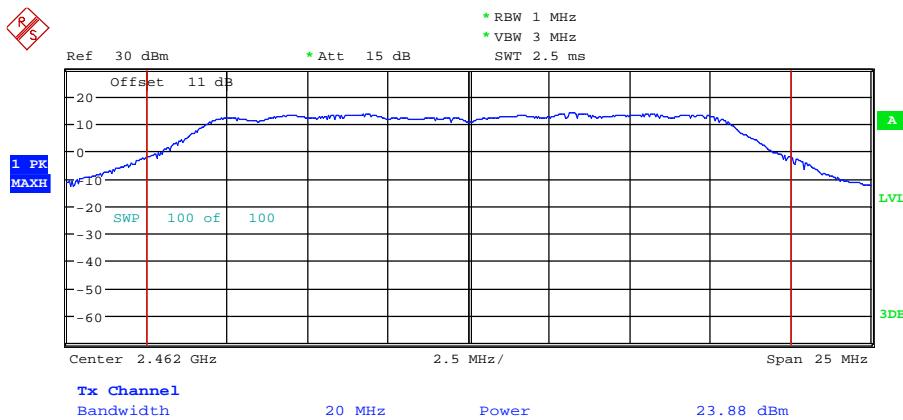
Date: 3.OCT.2013 18:04:47



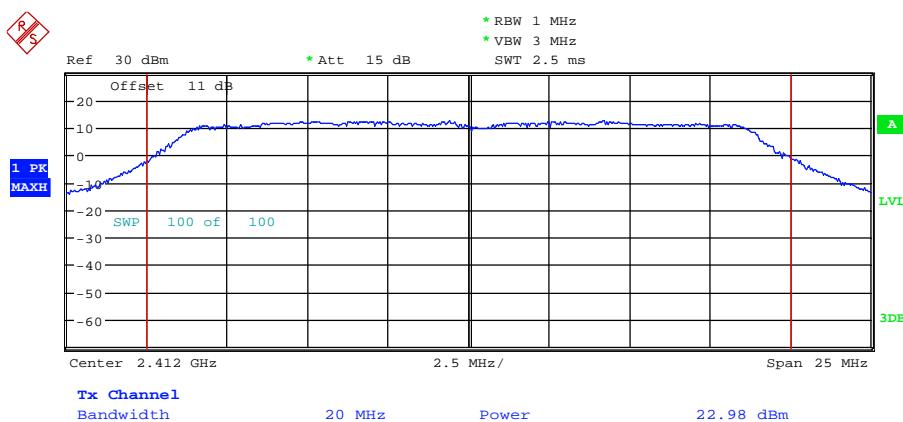


# Worldwide Testing Services(Taiwan) Co., Ltd.

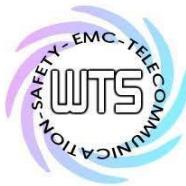
Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11G CH11  
Date: 3.OCT.2013 18:06:49



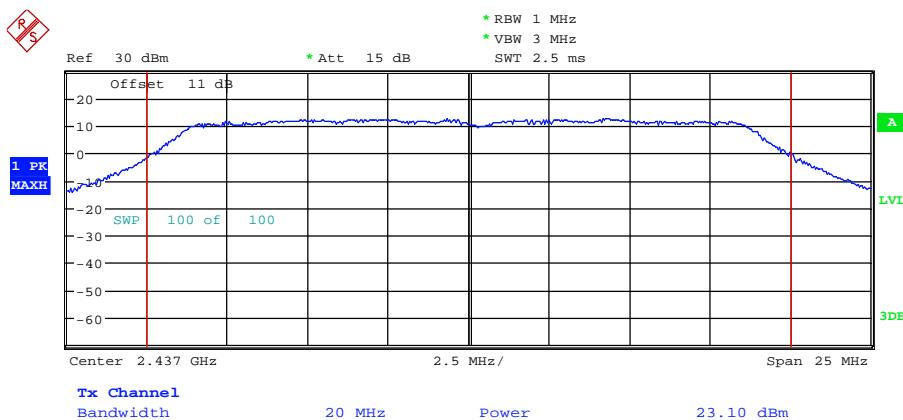
MAX OUTPUT POWER 802.11N 20MHZ CH01  
Date: 3.OCT.2013 18:09:20



# Worldwide Testing Services(Taiwan) Co., Ltd.

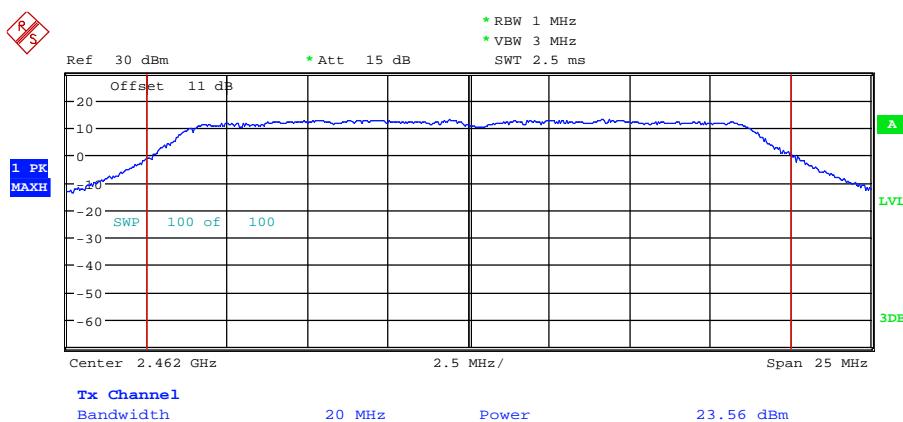
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11N 20MHZ CH06

Date: 3.OCT.2013 18:10:08



MAX OUTPUT POWER 802.11N 20MHZ CH11

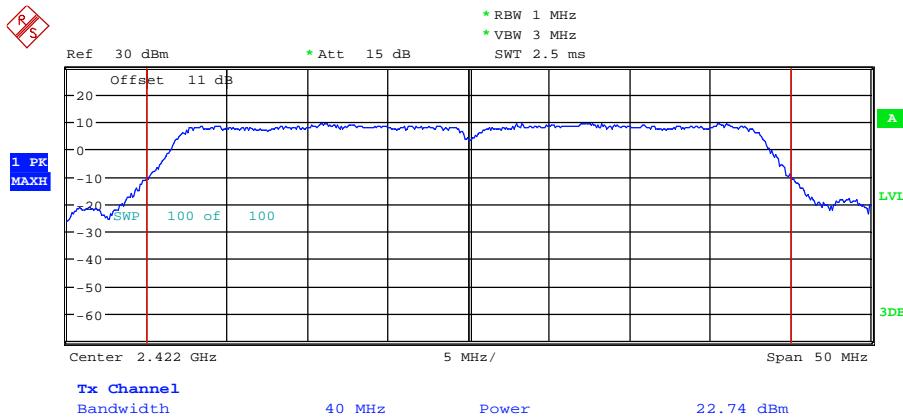
Date: 3.OCT.2013 18:10:49



# Worldwide Testing Services(Taiwan) Co., Ltd.

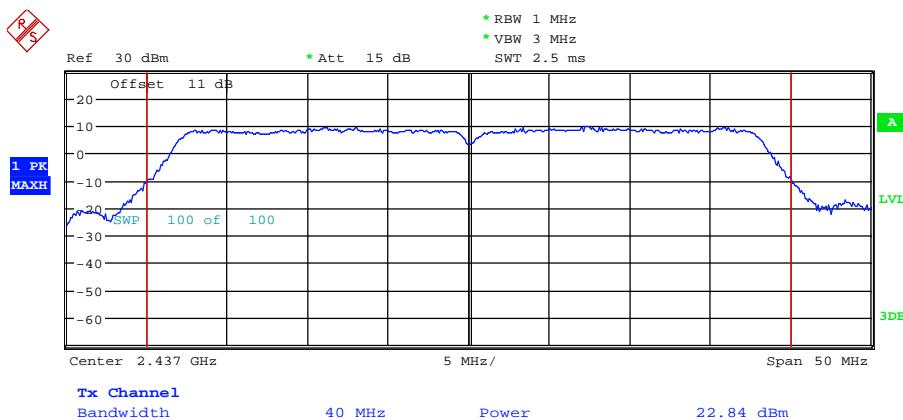
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11N 40MHZ CH01

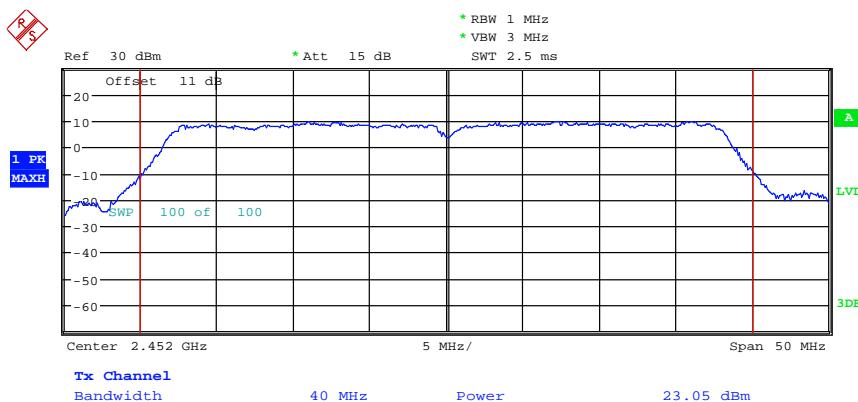
Date: 3.OCT.2013 18:12:33



MAX OUTPUT POWER 802.11N 40MHZ CH04

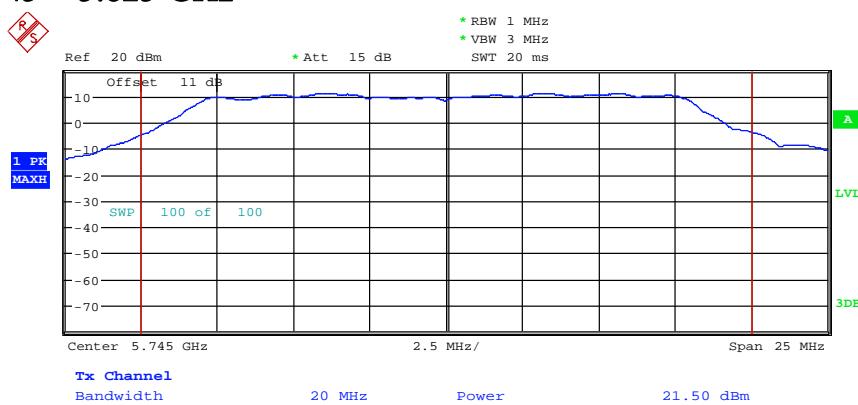
Date: 3.OCT.2013 18:13:35

Registration number: W6M21308-13478-C-1  
 FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11N 40MHZ CH07  
 Date: 3.OCT.2013 18:14:22

## WLAN 5.745 ~ 5.825 GHz



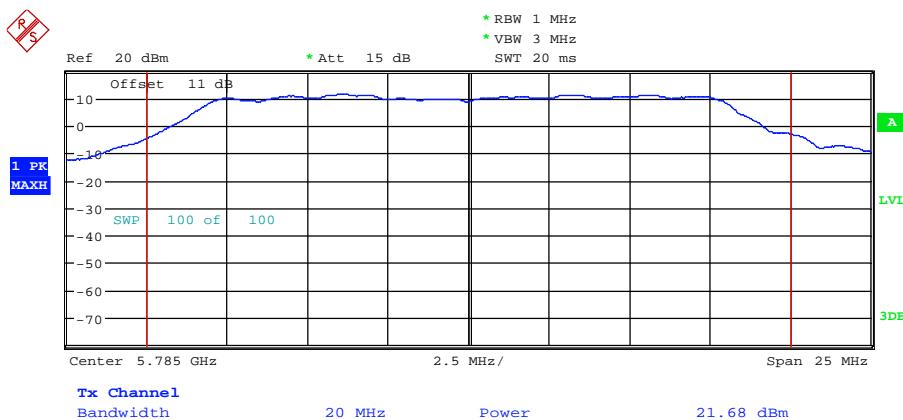
MAX OUTPUT POWER 802.11A CH149  
 Date: 3.OCT.2013 19:30:45



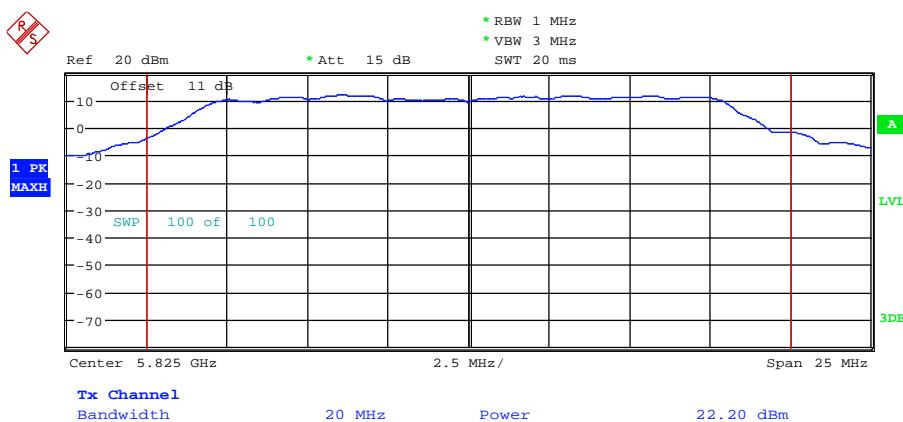
# Worldwide Testing Services(Taiwan) Co., Ltd.

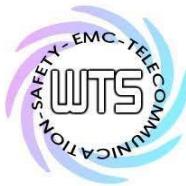
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11A CH157  
Date: 3.OCT.2013 19:31:43

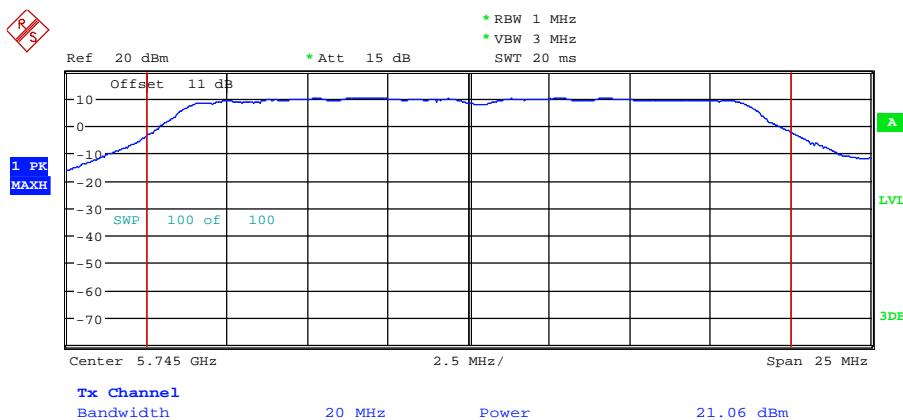




# Worldwide Testing Services(Taiwan) Co., Ltd.

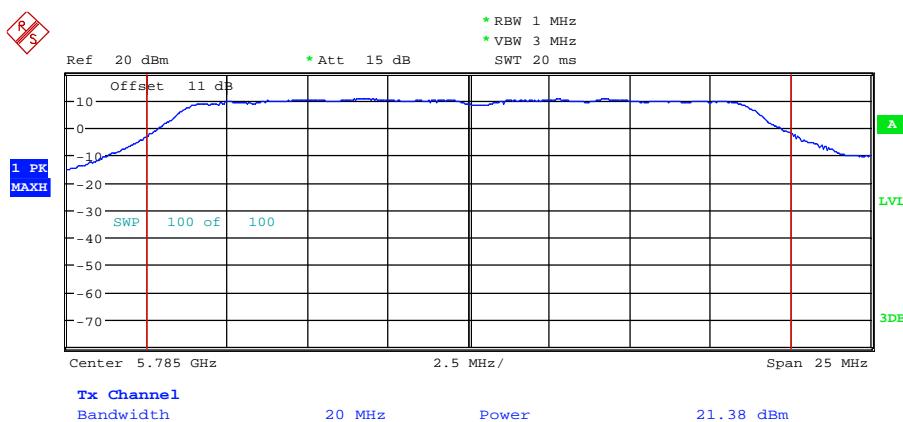
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11N 20MHZ CH149

Date: 3.OCT.2013 19:34:52

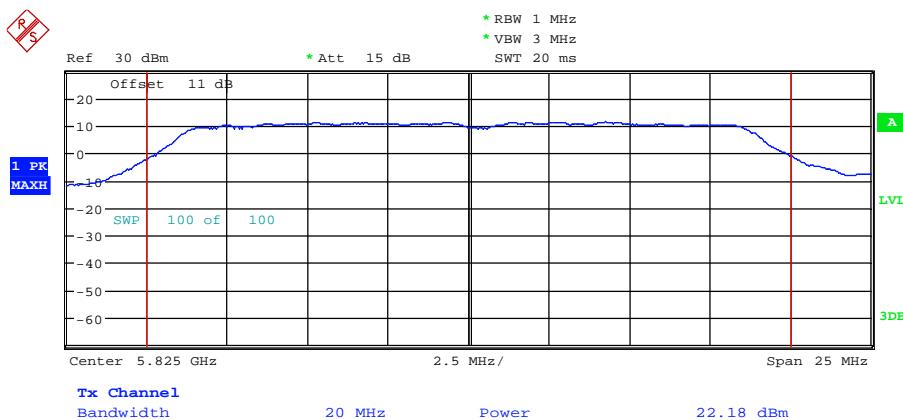




# Worldwide Testing Services(Taiwan) Co., Ltd.

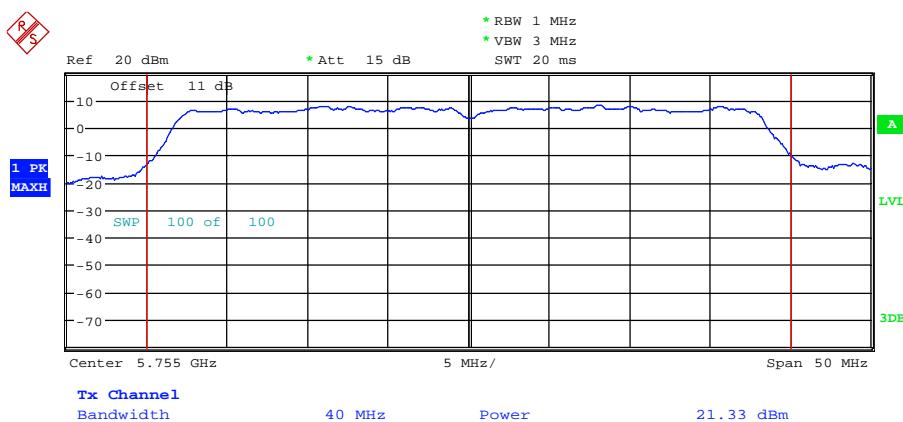
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11N 20MHZ CH165

Date: 3.OCT.2013 19:37:07



MAX OUTPUT POWER 802.11N 40MHZ CH151

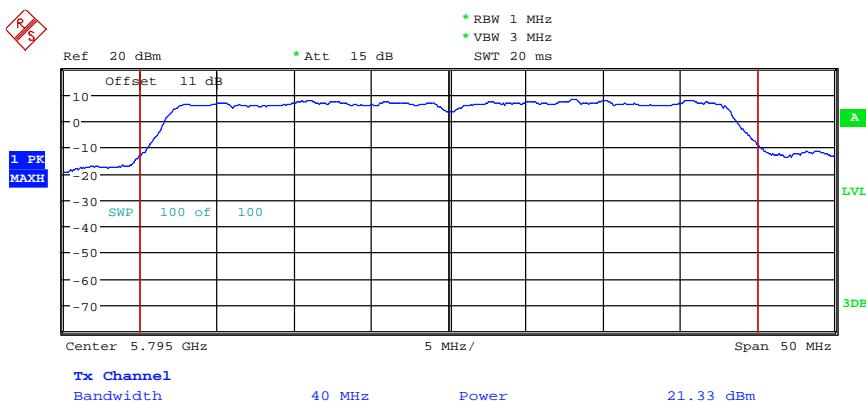
Date: 3.OCT.2013 19:40:46



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

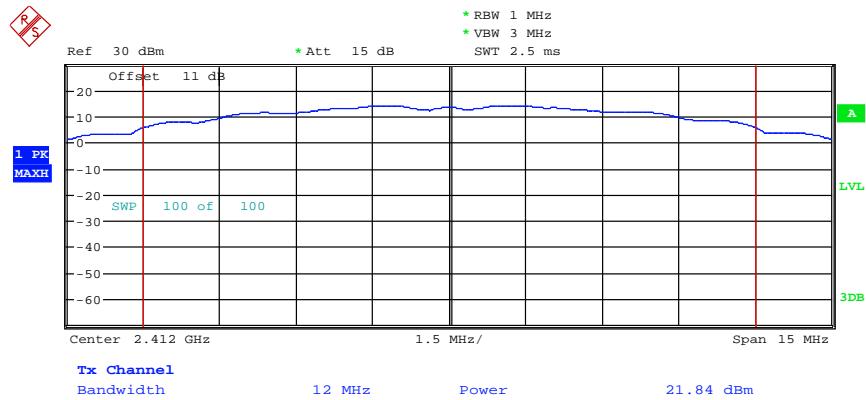
FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11N 40MHZ CH159

Date: 3.OCT.2013 19:41:41

## ANT B (ANT 2) WLAN 2.4GHz



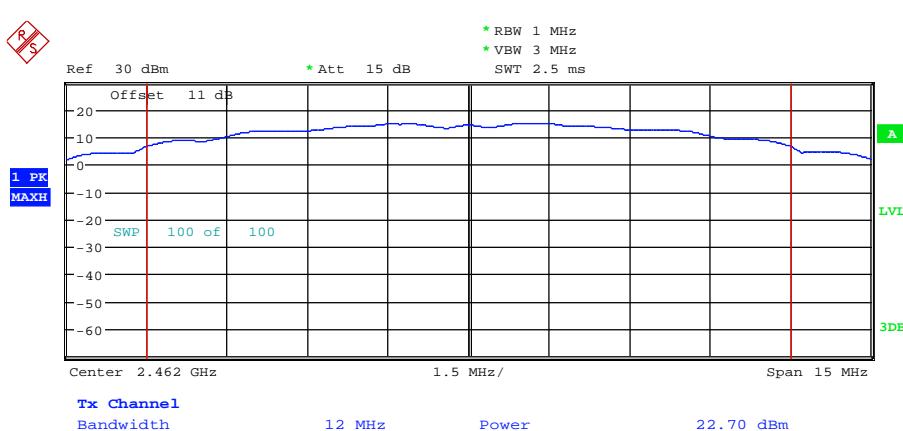
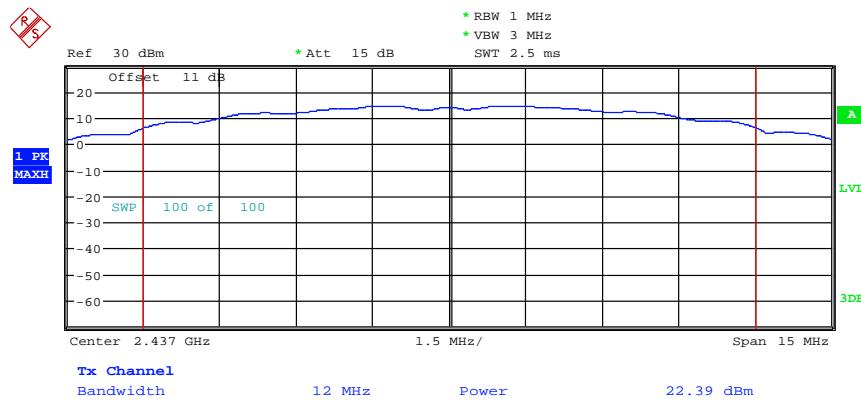
MAX OUTPUT POWER 802.11B CH01

Date: 3.OCT.2013 18:20:39



# Worldwide Testing Services(Taiwan) Co., Ltd.

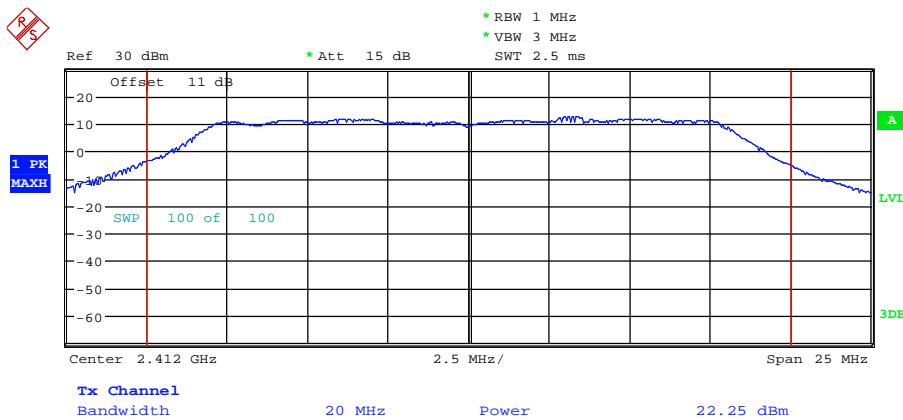
Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



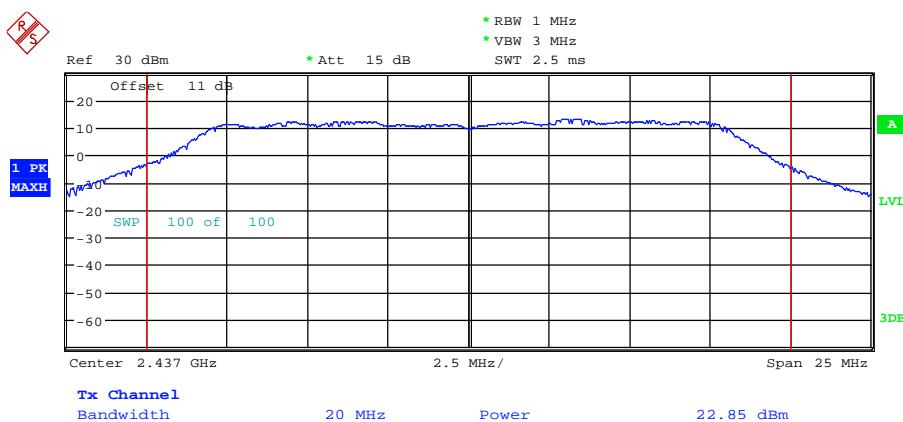


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11G CH01  
Date: 3.OCT.2013 18:24:27



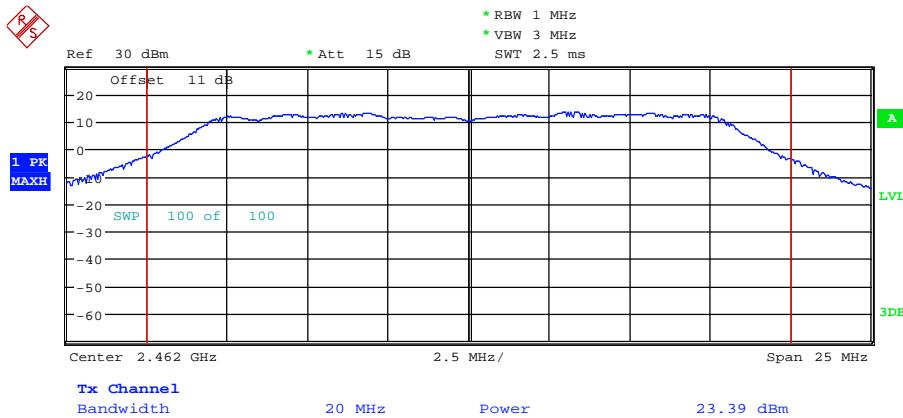
MAX OUTPUT POWER 802.11G CH06  
Date: 3.OCT.2013 18:25:16



# Worldwide Testing Services(Taiwan) Co., Ltd.

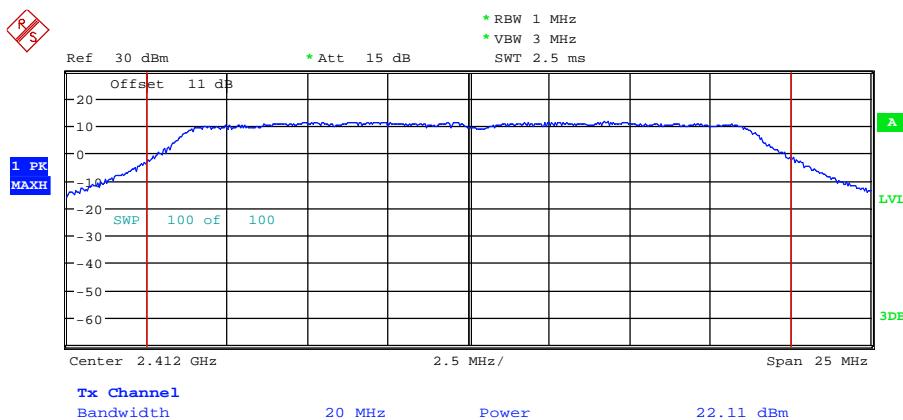
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11G CH11

Date: 3.OCT.2013 18:26:16

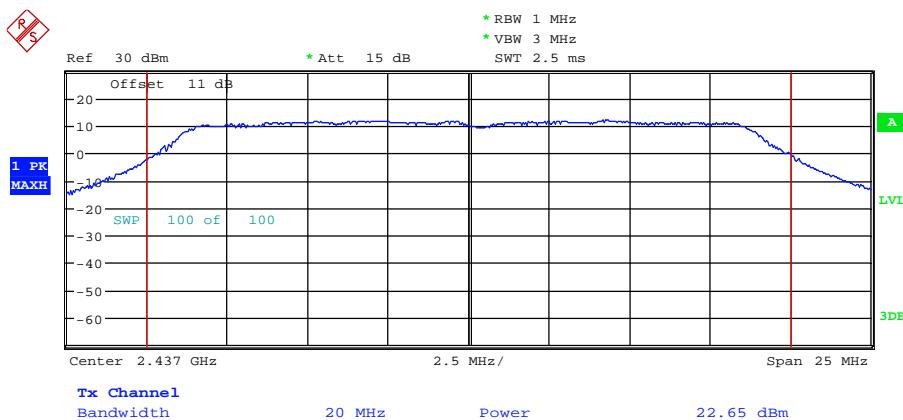




# Worldwide Testing Services(Taiwan) Co., Ltd.

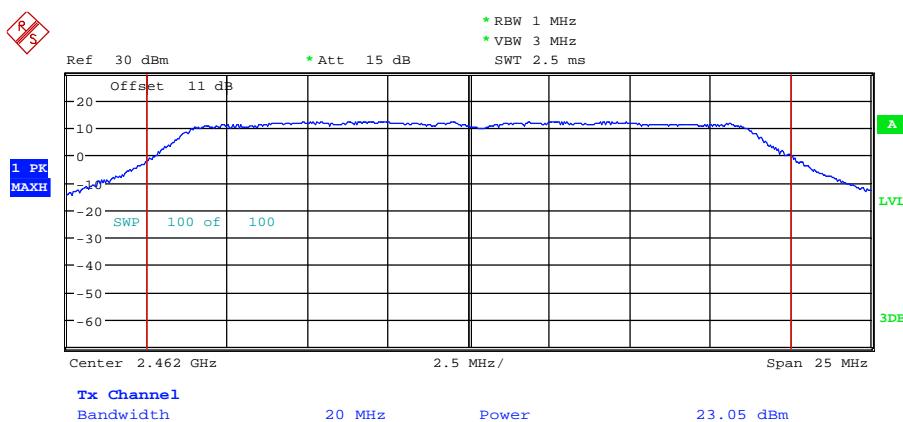
Registration number: W6M21308-13478-C-1

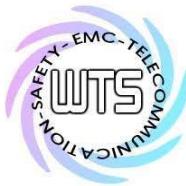
FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11N 20MHZ CH06

Date: 3.OCT.2013 18:32:01

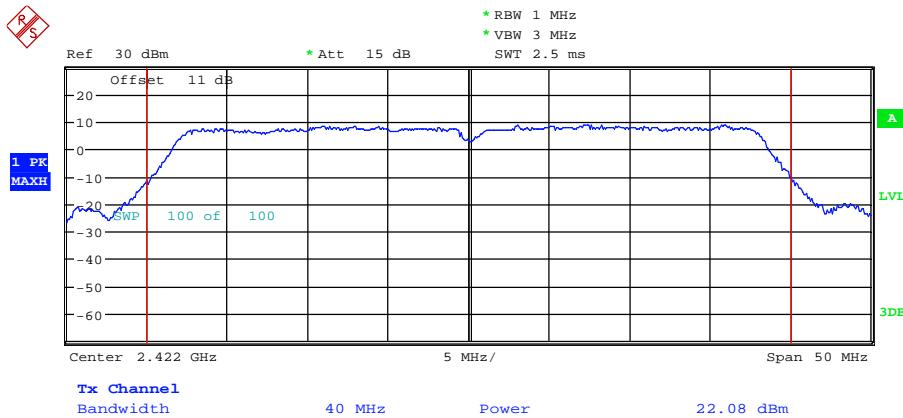




# Worldwide Testing Services(Taiwan) Co., Ltd.

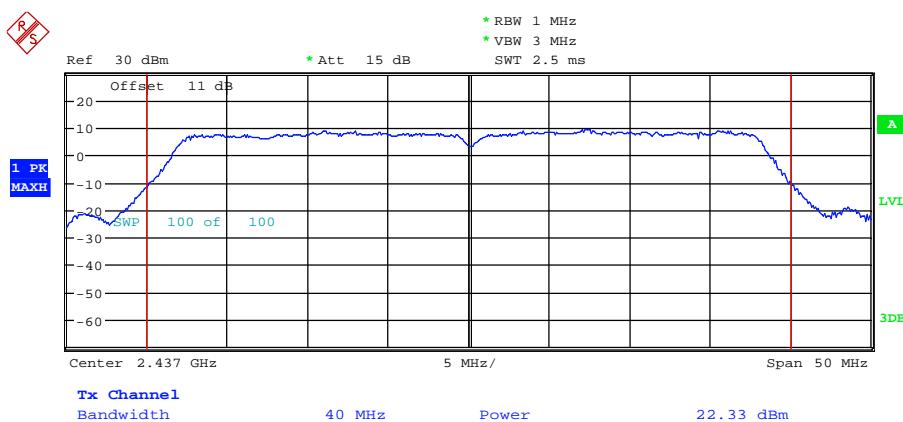
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11N 40MHZ CH01

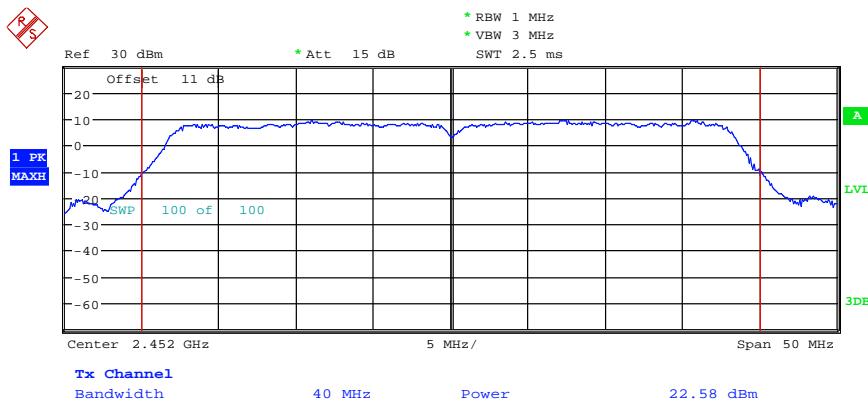
Date: 3.OCT.2013 18:35:08



MAX OUTPUT POWER 802.11N 40MHZ CH04

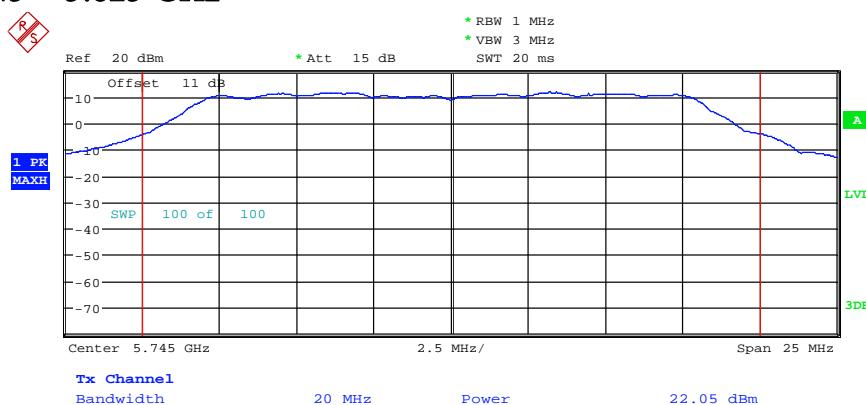
Date: 3.OCT.2013 18:36:08

Registration number: W6M21308-13478-C-1  
 FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11N 40MHZ CH07  
 Date: 3.OCT.2013 18:36:46

## WLAN 5.745 ~ 5.825 GHz



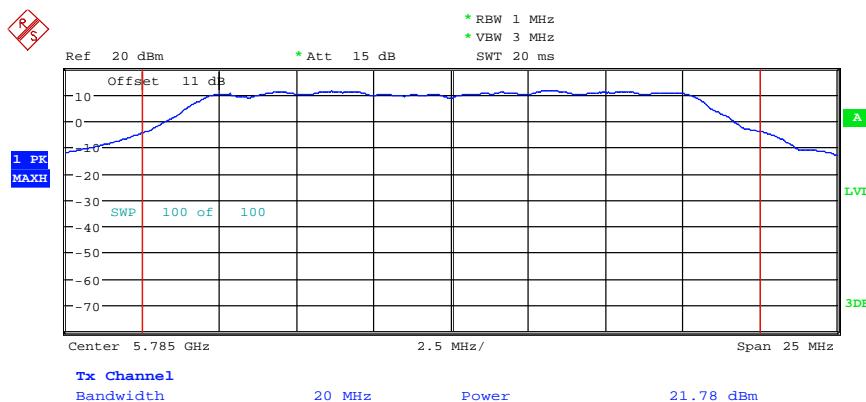
MAX OUTPUT POWER 802.11A CH149  
 Date: 3.OCT.2013 18:48:17



# Worldwide Testing Services(Taiwan) Co., Ltd.

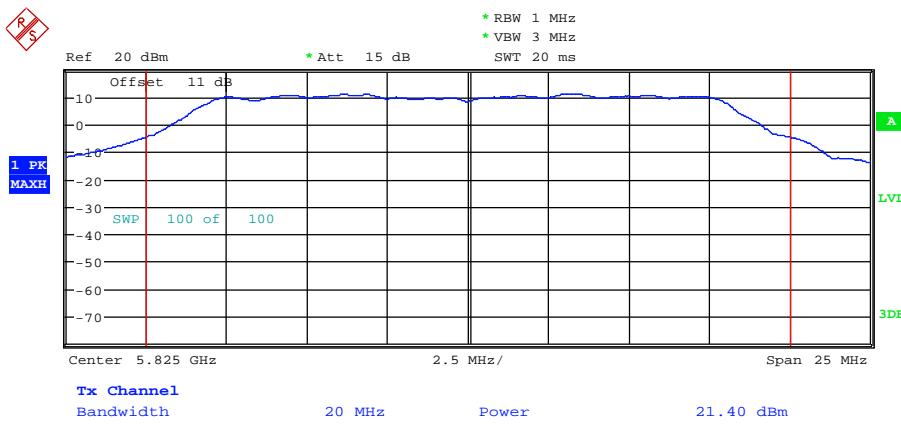
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11A CH157

Date: 3.OCT.2013 19:11:59



MAX OUTPUT POWER 802.11A CH165

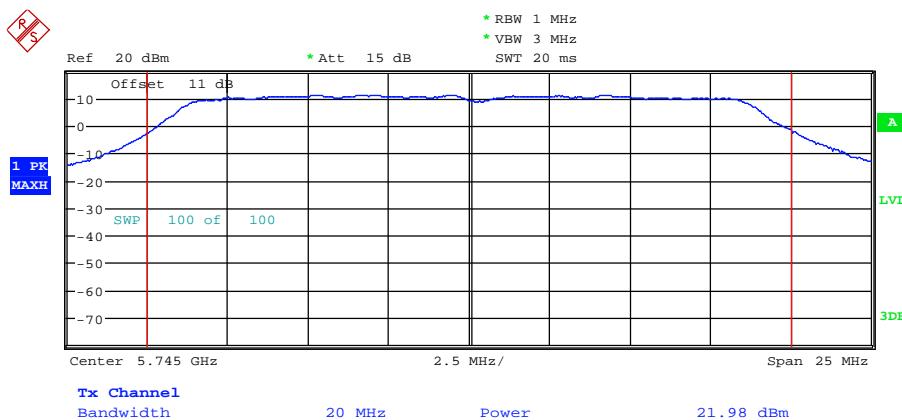
Date: 3.OCT.2013 19:12:47



# Worldwide Testing Services(Taiwan) Co., Ltd.

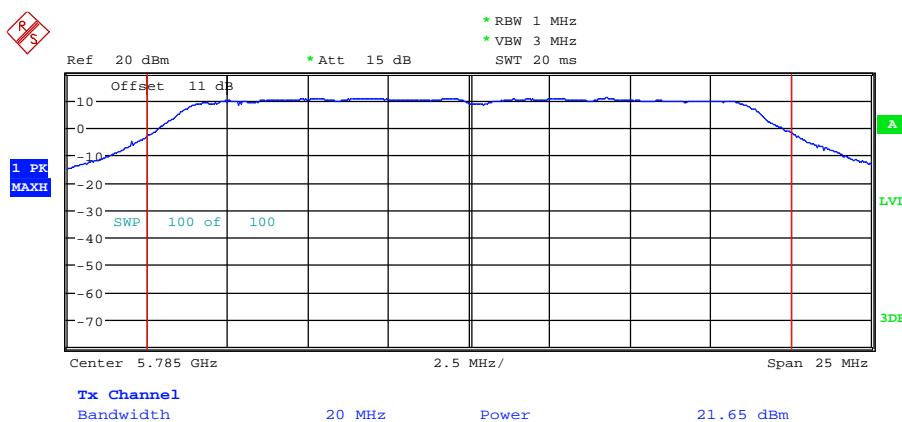
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11N 20MHZ CH149

Date: 3.OCT.2013 19:14:02



MAX OUTPUT POWER 802.11N 20MHZ CH157

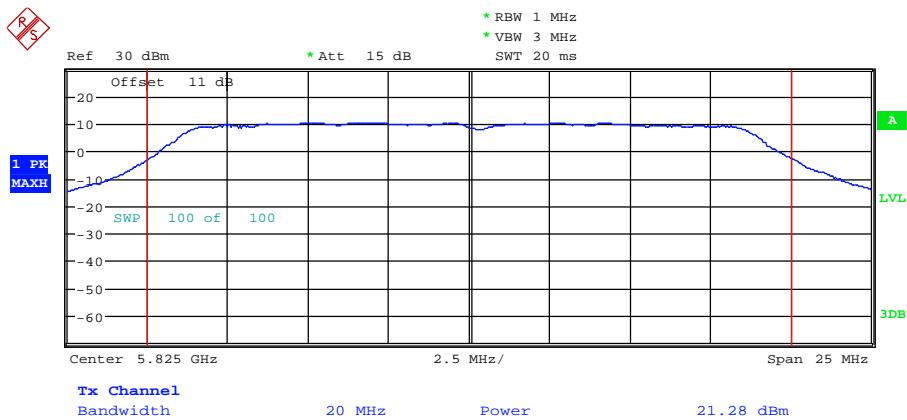
Date: 3.OCT.2013 19:14:54



# Worldwide Testing Services(Taiwan) Co., Ltd.

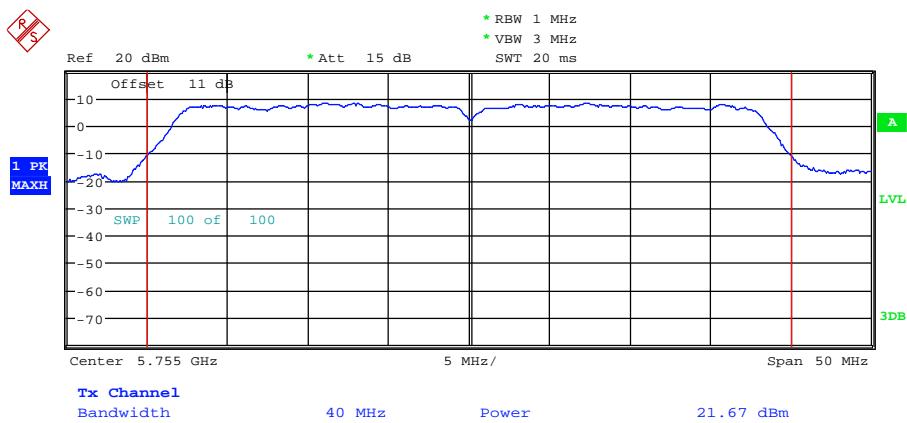
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



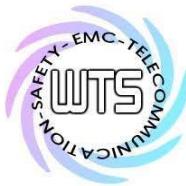
MAX OUTPUT POWER 802.11N 20MHZ CH165

Date: 3.OCT.2013 19:16:54



MAX OUTPUT POWER 802.11N 40MHZ CH151

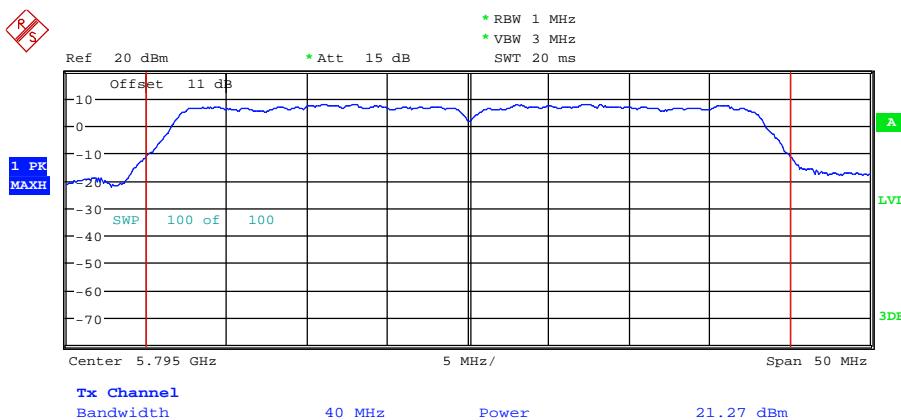
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# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

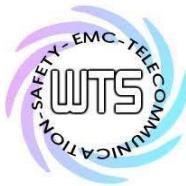
FCC ID: 2AA4J-W6M2130813478



MAX OUTPUT POWER 802.11N 40MHZ CH159

Date: 3.OCT.2013 19:19:57

ANT A (ANT 1)	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz(2.4GHz)	198.61	204.17	226.99	22.98	23.10	23.56
802.11n 40MHz	187.93	192.31	201.84	22.74	22.84	23.05
802.11n 20MHz(5.745 ~ 5.825 GHz)	127.64	137.40	165.20	21.06	21.38	22.18
802.11n 40MHz	135.83	./.	135.83	21.33	./.	21.33
ANT B (ANT 2)	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz(2.4GHz)	162.55	184.08	201.84	22.11	22.65	23.05
802.11n 40MHz	161.44	171.00	181.13	22.08	22.33	22.58
802.11n 20MHz(5.745 ~ 5.825 GHz)	157.76	146.22	134.28	21.98	21.65	21.28
802.11n 40MHz	146.89	./.	133.97	21.67	./.	21.27
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz(2.4GHz)	361.16	388.25	428.83	25.58	25.89	26.32
802.11n 40MHz	349.37	363.31	382.97	25.43	25.60	25.83
802.11n 20MHz(5.745 ~ 5.825 GHz)	285.40	283.62	299.48	24.55	24.53	24.76
802.11n 40MHz	282.72	./.	269.80	24.51	./.	24.31



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

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 dBi and using fixed point-to point operation consider §15.247 (b)(4)

Test equipment used: ETSTW-RE 055, ETSTW-RE 050



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## **3.2 Equivalent isotropic radiated power**

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain

$$\begin{aligned} \text{EIRP} &= 26.32 \text{ dBm} + 6.72 \text{ dBi} \\ &= 33.04 \text{ dBm} \end{aligned}$$

Limit: EIRP = +36 dBm for Antenna gain <6dBi

Test equipment used: ETSTW-RE 055

## **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.

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

S – Power Density

P – Output power ERP

R – Distance

D – Cable Loss

AG – Antenna Gain

Item	Unit	Value	Remarks
P	mW	428.83	Peak value
D	dB		
AG	dBi	6.72	
G		4.699	Calculated Value
R	cm	20	Assumed value
S	$\text{mW/cm}^2$	0.401	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density ( $\text{mW/cm}^2$ )
1500 – 100.000	1.0



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## **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:

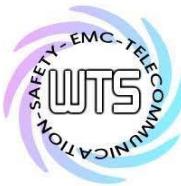
"If the emission is pulsed, modify the unit for continuous operation, use the setting shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation."

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.

Explanation: See attached diagrams in Appendix.



# Worldwide Testing Services(Taiwan) Co., Ltd.

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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:

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

Max. reading – 20 dB

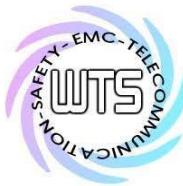
Guidance on Measurement of Digit Transmission Systems:

“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 =  $20 \log (\text{dwell time}/100\text{ms})$

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



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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 "Correction Factor".

## Summary table with radiated data of the test plots

### ANT A (ANT 1)

Model: MTV2000 Date: 2013/9/20 ~ 2013/10/6  
Mode: 802.11b ch1 TX Temperature: 24 °C Engineer: Leon  
Polarization: Horizontal Humidity: 60 %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	18.32	peak	13.30	31.62	40.00	-8.38	220	100
445.9920	18.17	peak	19.97	38.14	46.00	-7.86	130	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4824.0000	41.43	---	0.50	41.93	---	74.00	54.00	-32.07	255	100
7236.0000	40.87	---	4.06	44.93	---	74.00	54.00	-29.07	80	100
9648.0000	34.95	---	9.16	44.11	---	74.00	54.00	-29.89	145	100
12060.0000	34.01	---	13.89	47.90	---	74.00	54.00	-26.10	300	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.09	QP	13.30	38.39	40.00	-1.61	10	100
445.9920	15.50	peak	19.97	35.47	46.00	-10.53	35	100

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
4824.0000	41.47	---	0.50	41.97	---	74.00	54.00	-32.03	170	100
7236.0000	40.32	---	4.06	44.38	---	74.00	54.00	-29.62	40	100
9648.0000	34.99	---	9.16	44.15	---	74.00	54.00	-29.85	160	100
12060.0000	34.28	---	13.89	48.17	---	74.00	54.00	-25.83	315	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

Mode: 802.11b ch6 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
33.8877	18.07	peak	13.43	31.50	40.00	-8.50	80	100
445.9920	18.69	peak	19.97	38.66	46.00	-7.34	175	100

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
	Peak Ave.	Corr.	Peak Ave.	Peak Ave.						
4874.0000	41.46	---	0.61	42.07	---	74.00	54.00	-31.93	175	100
7311.0000	40.59	---	4.20	44.79	---	74.00	54.00	-29.21	50	100
9748.0000	34.93	---	9.51	44.44	---	74.00	54.00	-29.56	220	100
12185.0000	33.15	---	14.83	47.98	---	74.00	54.00	-26.02	65	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.34	QP	13.30	38.64	40.00	-1.36	0	100
74.7094	18.91	peak	10.78	29.69	40.00	-10.31	90	100

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
	Peak Ave.	Corr.	Peak Ave.	Peak Ave.						
4874.0000	41.63	---	0.61	42.24	---	74.00	54.00	-31.76	70	100
7311.0000	40.06	---	4.20	44.26	---	74.00	54.00	-29.74	310	100
9748.0000	35.11	---	9.51	44.62	---	74.00	54.00	-29.38	130	100
12185.0000	31.79	---	14.83	46.62	---	74.00	54.00	-27.38	300	100

Mode: 802.11b ch11 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	18.63	peak	13.30	31.93	40.00	-8.07	210	100
445.9920	18.44	peak	19.97	38.41	46.00	-7.59	55	100

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
	Peak Ave.	Corr.	Peak Ave.	Peak Ave.						
4924.0000	41.53	---	0.84	42.37	---	74.00	54.00	-31.63	245	100
7386.0000	40.41	---	4.43	44.84	---	74.00	54.00	-29.16	90	100
9848.0000	35.52	---	9.76	45.28	---	74.00	54.00	-28.72	215	100
12310.0000	35.58	---	14.12	49.70	---	74.00	54.00	-24.30	80	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.39	QP	13.30	38.69	40.00	-1.31	0	100
113.5872	18.78	peak	13.06	31.84	43.50	-11.66	135	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4924.0000	40.96	---	0.84	41.80	---	74.00	54.00	-32.20	235	100
7386.0000	39.79	---	4.43	44.22	---	74.00	54.00	-29.78	75	100
9848.0000	35.20	---	9.76	44.96	---	74.00	54.00	-29.04	185	100
12310.0000	34.36	---	14.12	48.48	---	74.00	54.00	-25.52	55	100

Mode: 802.11g ch1 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	19.27	peak	13.30	32.57	40.00	-7.43	110	100
445.9920	18.25	peak	19.97	38.22	46.00	-7.78	70	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4824.0000	41.13	---	0.50	41.63	---	74.00	54.00	-32.37	160	100
7236.0000	40.57	---	4.06	44.63	---	74.00	54.00	-29.37	290	100
9648.0000	35.06	---	9.16	44.22	---	74.00	54.00	-29.78	330	100
12060.0000	34.08	---	13.89	47.97	---	74.00	54.00	-26.03	155	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.39	QP	13.30	38.69	40.00	-1.31	5	100
103.8677	20.37	peak	11.65	32.02	43.50	-11.48	150	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4824.0000	41.39	---	0.50	41.89	---	74.00	54.00	-32.11	185	100
7236.0000	40.47	---	4.06	44.53	---	74.00	54.00	-29.47	25	100
9648.0000	34.90	---	9.16	44.06	---	74.00	54.00	-29.94	140	100
12060.0000	34.15	---	13.89	48.04	---	74.00	54.00	-25.96	305	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

Mode: 802.11g ch6 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	19.35	peak	13.30	32.65	40.00	-7.35	170	100
445.9920	18.58	peak	19.97	38.55	46.00	-7.45	185	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4874.0000	42.78	---	0.61	43.39	---	74.00	54.00	-30.61	305	100
7311.0000	40.43	---	4.20	44.63	---	74.00	54.00	-29.37	55	100
9748.0000	34.56	---	9.51	44.07	---	74.00	54.00	-29.93	225	100
12185.0000	32.51	---	14.83	47.34	---	74.00	54.00	-26.66	90	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.18	QP	13.30	38.48	40.00	-1.52	30	100
74.7094	19.18	peak	10.78	29.96	40.00	-10.04	155	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4874.0000	41.39	---	0.61	42.00	---	74.00	54.00	-32.00	75	100
7311.0000	40.65	---	4.20	44.85	---	74.00	54.00	-29.15	310	100
9748.0000	34.50	---	9.51	44.01	---	74.00	54.00	-29.99	220	100
12185.0000	32.24	---	14.83	47.07	---	74.00	54.00	-26.93	60	100

Mode: 802.11g ch11 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	19.15	peak	13.30	32.45	40.00	-7.55	220	100
445.9920	17.99	peak	19.97	37.96	46.00	-8.04	145	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4924.0000	40.88	---	0.84	41.72	---	74.00	54.00	-32.28	110	100
7386.0000	40.13	---	4.43	44.56	---	74.00	54.00	-29.44	320	100
9848.0000	35.12	---	9.76	44.88	---	74.00	54.00	-29.12	265	100
12310.0000	33.79	---	14.12	47.91	---	74.00	54.00	-26.09	85	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

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FCC ID: 2AA4J-W6M2130813478

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.39	QP	13.30	38.69	40.00	-1.31	85	100
103.8677	20.90	peak	11.65	32.55	43.50	-10.95	130	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4924.0000	41.17	---	0.84	42.01	---	74.00	54.00	-31.99	280	100
7386.0000	40.60	---	4.43	45.03	---	74.00	54.00	-28.97	165	100
9848.0000	34.69	---	9.76	44.45	---	74.00	54.00	-29.55	145	100
12310.0000	33.59	---	14.12	47.71	---	74.00	54.00	-26.29	50	100

Mode: 802.11a ch149 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	18.78	peak	13.30	32.08	40.00	-7.92	55	100
150.5210	6.79	peak	15.29	22.08	43.50	-21.42	100	100
300.2004	14.90	peak	15.91	30.81	46.00	-15.19	170	100
445.9920	18.80	peak	19.97	38.77	46.00	-7.23	220	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
11490.0000	34.25	---	12.90	47.15	---	74.00	54.00	-26.85	260	100
17235.0000	27.96	---	21.95	49.91	---	74.00	54.00	-24.09	170	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.46	QP	13.30	38.76	40.00	-1.24	0	100
74.7094	18.54	peak	10.78	29.32	40.00	-10.68	30	100
103.8677	20.23	peak	11.65	31.88	43.50	-11.62	115	100
445.9920	15.93	peak	19.97	35.90	46.00	-10.10	170	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
11490.0000	34.46	---	12.90	47.36	---	74.00	54.00	-26.64	235	100
17235.0000	27.98	---	21.95	49.93	---	74.00	54.00	-24.07	100	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

Mode: 802.11a ch157 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	20.43	peak	13.30	33.73	40.00	-6.27	150	100
300.2004	15.01	peak	15.91	30.92	46.00	-15.08	70	100
445.9920	19.15	peak	19.97	39.12	46.00	-6.88	145	100
743.4067	10.34	peak	24.82	35.16	46.00	-10.84	110	100

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11570.0000	33.99	---	13.43	47.42	---	74.00	54.00	-26.58	320	100
17355.0000	27.62	---	21.76	49.38	---	74.00	54.00	-24.62	250	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.47	QP	13.30	38.77	40.00	-1.23	10	100
76.6533	19.27	peak	10.43	29.70	40.00	-10.30	90	100
115.5311	18.52	peak	13.21	31.73	43.50	-11.77	130	100
445.9920	16.02	peak	19.97	35.99	46.00	-10.01	110	100

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11570.0000	35.52	---	13.43	48.95	---	74.00	54.00	-25.05	120	100
17355.0000	27.71	---	21.76	49.47	---	74.00	54.00	-24.53	185	100

Mode: 802.11a ch165 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	18.33	peak	13.30	31.63	40.00	-8.37	120	100
300.2004	15.79	peak	15.91	31.70	46.00	-14.30	55	100
445.9920	18.58	peak	19.97	38.55	46.00	-7.45	185	100
743.4067	9.20	peak	24.82	34.02	46.00	-11.98	40	100

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11650.0000	35.11	---	13.34	48.45	---	74.00	54.00	-25.55	295	100
17475.0000	28.00	---	21.63	49.63	---	74.00	54.00	-24.37	210	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.32	QP	13.30	38.62	40.00	-1.38	0	100
74.7094	18.47	peak	10.78	29.25	40.00	-10.75	130	100
103.8677	20.04	peak	11.65	31.69	43.50	-11.81	65	100
445.9920	16.21	peak	19.97	36.18	46.00	-9.82	140	100

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
	Peak Ave.	Corr.	Peak Ave.	Peak Ave.						
11650.0000	34.34	---	13.34	47.68	---	74.00	54.00	-26.32	225	100
17475.0000	27.44	---	21.63	49.07	---	74.00	54.00	-24.93	185	100

## ANT B (ANT 2)

Mode: 802.11b ch1 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	18.93	peak	13.30	32.23	40.00	-7.77	120	100
445.9920	18.71	peak	19.97	38.68	46.00	-7.32	185	100

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
	Peak Ave.	Corr.	Peak Ave.	Peak Ave.						
4824.0000	43.01	---	0.50	43.51	---	74.00	54.00	-30.49	270	100
7236.0000	40.85	---	4.06	44.91	---	74.00	54.00	-29.09	165	100
9648.0000	35.03	---	9.16	44.19	---	74.00	54.00	-29.81	125	100
12060.0000	33.58	---	13.89	47.47	---	74.00	54.00	-26.53	340	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.37	QP	13.30	38.67	40.00	-1.33	15	100
115.5311	19.83	peak	13.21	33.04	43.50	-10.46	130	100

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
	Peak Ave.	Corr.	Peak Ave.	Peak Ave.						
4824.0000	46.56	---	0.50	47.06	---	74.00	54.00	-26.94	190	100
7236.0000	40.66	---	4.06	44.72	---	74.00	54.00	-29.28	310	100
9648.0000	35.80	---	9.16	44.96	---	74.00	54.00	-29.04	210	100
12060.0000	34.21	---	13.89	48.10	---	74.00	54.00	-25.90	35	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

Mode: 802.11b ch6 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	19.39	peak	13.30	32.69	40.00	-7.31	120	100
445.9920	18.55	peak	19.97	38.52	46.00	-7.48	55	100

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
4873.7480	44.83	---	0.61	45.44	---	74.00	54.00	-28.56	245	100
7311.0000	40.38	---	4.20	44.58	---	74.00	54.00	-29.42	190	100
9748.0000	35.42	---	9.51	44.93	---	74.00	54.00	-29.07	135	100
12185.0000	33.36	---	14.83	48.19	---	74.00	54.00	-25.81	320	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.17	QP	13.30	38.47	40.00	-1.53	35	100
445.9920	16.22	peak	19.97	36.19	46.00	-9.81	120	100

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
4873.7480	47.95	---	0.61	48.56	---	74.00	54.00	-25.44	270	100
7311.0000	40.45	---	4.20	44.65	---	74.00	54.00	-29.35	40	100
9748.0000	34.68	---	9.51	44.19	---	74.00	54.00	-29.81	115	100
12185.0000	32.80	---	14.83	47.63	---	74.00	54.00	-26.37	320	100

Mode: 802.11b ch11 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	19.29	peak	13.30	32.59	40.00	-7.41	240	100
445.9920	18.59	peak	19.97	38.56	46.00	-7.44	130	100

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
4921.8440	45.63	---	0.83	46.46	---	74.00	54.00	-27.54	30	100
7386.0000	40.66	---	4.43	45.09	---	74.00	54.00	-28.91	260	100
9848.0000	35.30	---	9.76	45.06	---	74.00	54.00	-28.94	240	100
12310.0000	34.70	---	14.12	48.82	---	74.00	54.00	-25.18	130	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.03	QP	13.30	38.33	40.00	-1.67	10	100
103.8677	19.99	peak	11.65	31.64	43.50	-11.86	155	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4921.8440	48.80	---	0.83	49.63	---	74.00	54.00	-24.37	250	100
7386.0000	39.90	---	4.43	44.33	---	74.00	54.00	-29.67	175	100
9848.0000	35.65	---	9.76	45.41	---	74.00	54.00	-28.59	95	100
12310.0000	34.96	---	14.12	49.08	---	74.00	54.00	-24.92	320	100

Mode: 802.11g ch1 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	18.60	peak	13.30	31.90	40.00	-8.10	140	100
445.9920	19.37	peak	19.97	39.34	46.00	-6.66	75	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4824.0000	41.35	---	0.50	41.85	---	74.00	54.00	-32.15	320	100
7236.0000	40.20	---	4.06	44.26	---	74.00	54.00	-29.74	70	100
9648.0000	36.64	---	9.16	45.80	---	74.00	54.00	-28.20	255	100
12060.0000	34.39	---	13.89	48.28	---	74.00	54.00	-25.72	170	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.38	QP	13.30	38.68	40.00	-1.32	5	100
115.5311	18.66	peak	13.21	31.87	43.50	-11.63	105	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4824.0000	41.90	---	0.50	42.40	---	74.00	54.00	-31.60	210	100
7236.0000	40.74	---	4.06	44.80	---	74.00	54.00	-29.20	35	100
9648.0000	35.77	---	9.16	44.93	---	74.00	54.00	-29.07	295	100
12060.0000	34.01	---	13.89	47.90	---	74.00	54.00	-26.10	80	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

Mode: 802.11g ch6 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	19.08	peak	13.30	32.38	40.00	-7.62	175	100
445.9920	18.57	peak	19.97	38.54	46.00	-7.46	220	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4874.0000	41.42	---	0.61	42.03	---	74.00	54.00	-31.97	310	100
7311.0000	40.35	---	4.20	44.55	---	74.00	54.00	-29.45	140	100
9748.0000	34.72	---	9.51	44.23	---	74.00	54.00	-29.77	40	100
12185.0000	33.77	---	14.83	48.60	---	74.00	54.00	-25.40	335	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.31	QP	13.30	38.61	40.00	-1.39	0	100
103.8677	19.64	peak	11.65	31.29	43.50	-12.21	175	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4874.0000	41.88	---	0.61	42.49	---	74.00	54.00	-31.51	145	100
7311.0000	40.22	---	4.20	44.42	---	74.00	54.00	-29.58	320	100
9748.0000	34.65	---	9.51	44.16	---	74.00	54.00	-29.84	110	100
12185.0000	32.98	---	14.83	47.81	---	74.00	54.00	-26.19	305	100

Mode: 802.11g ch11 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	17.57	peak	13.30	30.87	40.00	-9.13	140	100
445.9920	18.25	peak	19.97	38.22	46.00	-7.78	205	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4924.0000	42.39	---	0.84	43.23	---	74.00	54.00	-30.77	140	100
7386.0000	39.90	---	4.43	44.33	---	74.00	54.00	-29.67	265	100
9848.0000	35.33	---	9.76	45.09	---	74.00	54.00	-28.91	225	100
12310.0000	34.84	---	14.12	48.96	---	74.00	54.00	-25.04	75	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.19	QP	13.30	38.49	40.00	-1.51	15	100
103.8677	20.61	peak	11.65	32.26	43.50	-11.24	130	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4924.0000	41.10	---	0.84	41.94	---	74.00	54.00	-32.06	185	100
7386.0000	39.84	---	4.43	44.27	---	74.00	54.00	-29.73	60	100
9848.0000	34.76	---	9.76	44.52	---	74.00	54.00	-29.48	105	100
12310.0000	34.11	---	14.12	48.23	---	74.00	54.00	-25.77	200	100

Mode: 802.11a ch149 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	18.27	peak	13.30	31.57	40.00	-8.43	145	100
140.8015	6.75	peak	15.06	21.81	43.50	-21.69	130	100
302.1442	14.59	peak	15.96	30.55	46.00	-15.45	110	100
445.9920	18.30	peak	19.97	38.27	46.00	-7.73	80	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
11490.0000	34.30	---	12.90	47.20	---	74.00	54.00	-26.80	230	100
17235.0000	27.71	---	21.95	49.66	---	74.00	54.00	-24.34	140	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.39	QP	13.30	38.69	40.00	-1.31	0	100
74.7094	18.26	peak	10.78	29.04	40.00	-10.96	130	100
103.8677	19.83	peak	11.65	31.48	43.50	-12.02	175	100
445.9920	15.15	peak	19.97	35.12	46.00	-10.88	80	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
11490.0000	34.74	---	12.90	47.64	---	74.00	54.00	-26.36	225	100
17235.0000	27.74	---	21.95	49.69	---	74.00	54.00	-24.31	85	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

Mode: 802.11a ch157 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	17.71	peak	13.30	31.01	40.00	-8.99	130	100
296.3125	16.03	peak	15.87	31.90	46.00	-14.10	245	100
445.9920	18.80	peak	19.97	38.77	46.00	-7.23	110	100
743.4067	14.71	peak	24.82	39.53	46.00	-6.47	85	100

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11570.0000	34.09	---	13.43	47.52	---	74.00	54.00	-26.48	200	100
17355.0000	28.13	---	21.76	49.89	---	74.00	54.00	-24.11	180	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.17	QP	13.30	38.47	40.00	-1.53	25	100
74.7094	18.45	peak	10.78	29.23	40.00	-10.77	140	100
103.8677	21.37	peak	11.65	33.02	43.50	-10.48	70	100
445.9920	15.31	peak	19.97	35.28	46.00	-10.72	120	100

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11570.0000	34.48	---	13.43	47.91	---	74.00	54.00	-26.09	235	100
17355.0000	27.54	---	21.76	49.30	---	74.00	54.00	-24.70	240	100

Mode: 802.11a ch165 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	17.50	peak	13.30	30.80	40.00	-9.20	95	100
300.2004	14.47	peak	15.91	30.38	46.00	-15.62	220	100
445.9920	18.80	peak	19.97	38.77	46.00	-7.23	170	100
961.1222	7.88	peak	28.25	36.13	54.00	-17.87	40	100

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11650.0000	34.30	---	13.34	47.64	---	74.00	54.00	-26.36	220	100
17475.0000	27.83	---	21.63	49.46	---	74.00	54.00	-24.54	110	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	24.96	QP	13.30	38.26	40.00	-1.74	5	100
74.7094	18.84	peak	10.78	29.62	40.00	-10.38	210	100
103.8677	21.24	peak	11.65	32.89	43.50	-10.61	155	100
445.9920	15.95	peak	19.97	35.92	46.00	-10.08	170	100

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak Ave.		Corr.	Peak Ave.	Peak Ave.			
11650.0000	34.66	---	13.34	48.00	---	74.00	54.00	-26.00
17475.0000	27.26	---	21.63	48.89	---	74.00	54.00	-25.11

## ANT A (ANT 1)+ANT B (ANT 2)

Mode: 802.11n 20MHz ch1 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	17.82	peak	13.30	31.12	40.00	-8.88	190	100
445.9920	18.58	peak	19.97	38.55	46.00	-7.45	230	100

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak Ave.		Corr.	Peak Ave.	Peak Ave.			
4824.0000	41.33	---	0.50	41.83	---	74.00	54.00	-32.17
7236.0000	40.44	---	4.06	44.50	---	74.00	54.00	-29.50
9648.0000	35.86	---	9.16	45.02	---	74.00	54.00	-28.98
12060.0000	34.62	---	13.89	48.51	---	74.00	54.00	-25.49

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.15	QP	13.30	38.45	40.00	-1.55	0	100
103.8677	20.69	peak	11.65	32.34	43.50	-11.16	135	100

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak Ave.		Corr.	Peak Ave.	Peak Ave.			
4824.0000	41.66	---	0.50	42.16	---	74.00	54.00	-31.84
7236.0000	40.39	---	4.06	44.45	---	74.00	54.00	-29.55
9648.0000	35.25	---	9.16	44.41	---	74.00	54.00	-29.59
12060.0000	34.35	---	13.89	48.24	---	74.00	54.00	-25.76



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

Mode: 802.11n 20MHz ch6 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	17.59	peak	13.30	30.89	40.00	-9.11	255	100
445.9920	18.62	peak	19.97	38.59	46.00	-7.41	140	100

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
	Peak Ave.	Corr.	Peak Ave.	Peak Ave.						
4874.0000	41.77	---	0.61	42.38	---	74.00	54.00	-31.62	55	100
7311.0000	40.12	---	4.20	44.32	---	74.00	54.00	-29.68	180	100
9748.0000	34.93	---	9.51	44.44	---	74.00	54.00	-29.56	90	100
12185.0000	32.47	---	14.83	47.30	---	74.00	54.00	-26.70	305	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.43	QP	13.30	38.73	40.00	-1.27	30	100
103.8677	19.57	peak	11.65	31.22	43.50	-12.28	150	100

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
	Peak Ave.	Corr.	Peak Ave.	Peak Ave.						
4874.0000	41.69	---	0.61	42.30	---	74.00	54.00	-31.70	60	100
7311.0000	40.22	---	4.20	44.42	---	74.00	54.00	-29.58	260	100
9748.0000	34.42	---	9.51	43.93	---	74.00	54.00	-30.07	115	100
12185.0000	32.26	---	14.83	47.09	---	74.00	54.00	-26.91	25	100

Mode: 802.11n 20MHz ch11 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	16.69	peak	13.30	29.99	40.00	-10.01	130	100
445.9920	18.92	peak	19.97	38.89	46.00	-7.11	205	100

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result @3m (dBuV/m)	Limit @3m (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
	Peak Ave.	Corr.	Peak Ave.	Peak Ave.						
4924.0000	41.51	---	0.84	42.35	---	74.00	54.00	-31.65	195	100
7386.0000	39.96	---	4.43	44.39	---	74.00	54.00	-29.61	45	100
9848.0000	35.70	---	9.76	45.46	---	74.00	54.00	-28.54	320	100
12310.0000	34.54	---	14.12	48.66	---	74.00	54.00	-25.34	70	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	24.93	QP	13.30	38.23	40.00	-1.77	20	100
103.8677	20.48	peak	11.65	32.13	43.50	-11.37	110	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4924.0000	41.42	---	0.84	42.26	---	74.00	54.00	-31.74	195	100
7386.0000	40.23	---	4.43	44.66	---	74.00	54.00	-29.34	300	100
9848.0000	35.07	---	9.76	44.83	---	74.00	54.00	-29.17	260	100
12310.0000	34.07	---	14.12	48.19	---	74.00	54.00	-25.81	125	100

Mode: 802.11n 40MHz ch1 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	18.79	peak	13.30	32.09	40.00	-7.91	80	100
445.9920	18.39	peak	19.97	38.36	46.00	-7.64	250	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4844.0000	40.92	---	0.54	41.46	---	74.00	54.00	-32.54	50	100
7266.0000	40.77	---	4.11	44.88	---	74.00	54.00	-29.12	295	100
9688.0000	35.11	---	9.19	44.30	---	74.00	54.00	-29.70	160	100
12110.0000	34.58	---	14.34	48.92	---	74.00	54.00	-25.08	30	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.37	QP	13.30	38.67	40.00	-1.33	30	100
445.9920	15.55	peak	19.97	35.52	46.00	-10.48	110	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4844.0000	40.68	---	0.54	41.22	---	74.00	54.00	-32.78	175	100
7266.0000	40.82	---	4.11	44.93	---	74.00	54.00	-29.07	325	100
9688.0000	35.82	---	9.19	45.01	---	74.00	54.00	-28.99	235	100
12110.0000	32.64	---	14.34	46.98	---	74.00	54.00	-27.02	20	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

Mode: 802.11n 40MHz ch4 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	18.60	peak	13.30	31.90	40.00	-8.10	170	100
445.9920	18.48	peak	19.97	38.45	46.00	-7.55	255	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4874.0000	41.45	---	0.61	42.06	---	74.00	54.00	-31.94	185	100
7311.0000	40.51	---	4.20	44.71	---	74.00	54.00	-29.29	290	100
9748.0000	36.09	---	9.51	45.60	---	74.00	54.00	-28.40	270	100
12185.0000	32.25	---	14.83	47.08	---	74.00	54.00	-26.92	45	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.07	QP	13.30	38.37	40.00	-1.63	15	100
103.8677	20.80	peak	11.65	32.45	43.50	-11.05	130	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4874.0000	41.94	---	0.61	42.55	---	74.00	54.00	-31.45	250	100
7311.0000	40.55	---	4.20	44.75	---	74.00	54.00	-29.25	335	100
9748.0000	35.17	---	9.51	44.68	---	74.00	54.00	-29.32	140	100
12185.0000	32.21	---	14.83	47.04	---	74.00	54.00	-26.96	215	100

Mode: 802.11n 40MHz ch7 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9438	19.91	peak	13.30	33.21	40.00	-6.79	140	100
445.9920	19.08	peak	19.97	39.05	46.00	-6.95	205	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4904.0000	40.94	---	0.70	41.64	---	74.00	54.00	-32.36	25	100
7356.0000	41.13	---	4.34	45.47	---	74.00	54.00	-28.53	160	100
9808.0000	35.93	---	9.83	45.76	---	74.00	54.00	-28.24	165	100
12260.0000	34.12	---	14.37	48.49	---	74.00	54.00	-25.51	330	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9440	25.33	QP	13.30	38.63	40.00	-1.37	55	100
103.8677	19.86	peak	11.65	31.51	43.50	-11.99	130	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
4904.0000	40.89	---	0.70	41.59	---	74.00	54.00	-32.41	205	100
7356.0000	40.79	---	4.34	45.13	---	74.00	54.00	-28.87	310	100
9808.0000	35.46	---	9.83	45.29	---	74.00	54.00	-28.71	75	100
12260.0000	32.82	---	14.37	47.19	---	74.00	54.00	-26.81	325	100

Mode: 802.11n 20MHz ch149 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9436	18.77	peak	13.30	32.07	40.00	-7.93	155	100
302.1442	16.09	peak	15.96	32.05	46.00	-13.95	30	100
445.9920	19.30	peak	19.97	39.27	46.00	-6.73	255	100
961.1222	8.05	peak	28.25	36.30	54.00	-17.70	130	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
11490.0000	34.34	---	12.90	47.24	---	74.00	54.00	-26.76	155	100
17235.0000	27.88	---	21.95	49.83	---	74.00	54.00	-24.17	120	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9436	24.95	QP	13.30	38.25	40.00	-1.75	55	100
74.7094	19.26	peak	10.78	30.04	40.00	-9.96	135	100
103.8675	20.83	peak	11.65	32.48	43.50	-11.02	70	100
445.9920	16.15	peak	19.97	36.12	46.00	-9.88	160	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
11490.0000	34.78	---	12.90	47.68	---	74.00	54.00	-26.32	220	100
17235.0000	27.34	---	21.95	49.29	---	74.00	54.00	-24.71	90	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

Mode: 802.11n 20MHz ch157 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9436	18.71	peak	13.30	32.01	40.00	-7.99	110	100
296.3125	17.03	peak	15.87	32.90	46.00	-13.10	260	100
445.9920	19.30	peak	19.97	39.27	46.00	-6.73	130	100
743.4067	15.21	peak	24.82	40.03	46.00	-5.97	35	100

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.		Peak	Ave.	Peak	Ave.			
11570.0000	34.62	---	13.43	48.05	---	74.00	54.00	-25.95	205	100
17355.0000	26.76	---	21.76	48.52	---	74.00	54.00	-25.48	145	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9437	24.77	QP	13.30	38.07	40.00	-1.93	15	100
103.8675	22.37	peak	11.65	34.02	43.50	-9.48	170	100
445.9920	16.31	peak	19.97	36.28	46.00	-9.72	35	100
593.7273	8.46	peak	22.91	31.37	46.00	-14.63	120	100

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
11570.0000	34.45	---	13.43	47.88	---	74.00	54.00	-26.12	180	100
17355.0000	26.37	---	21.76	48.13	---	74.00	54.00	-25.87	155	100

Mode: 802.11n 20MHz ch165 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
30.0000	18.09	peak	13.17	31.26	40.00	-8.74	55	100
158.2966	7.62	peak	15.26	22.88	43.50	-20.62	105	100
300.2004	16.47	peak	15.91	32.38	46.00	-13.62	70	100
445.9920	19.80	peak	19.97	39.77	46.00	-6.23	30	100

Frequency (MHz)	Reading (dBuV)		Factor (dB)	Result @3m (dBuV/m)		Limit @3m (dBuV/m)		Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.			
11650.0000	34.43	---	13.34	47.77	---	74.00	54.00	-26.23	150	100
17475.0000	27.68	---	21.63	49.31	---	74.00	54.00	-24.69	210	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9437	25.33	QP	13.30	38.63	40.00	-1.37	125	100
103.8675	21.74	peak	11.65	33.39	43.50	-10.11	30	100
445.9920	16.95	peak	19.97	36.92	46.00	-9.08	110	100
593.7273	13.31	peak	22.91	36.22	46.00	-9.78	70	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
11650.0000	34.86	---	13.34	48.20	---	74.00	54.00	-25.80	140	100
17475.0000	27.26	---	21.63	48.89	---	74.00	54.00	-25.11	230	100

Mode: 802.11n 40MHz ch151 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9436	19.78	peak	13.30	33.08	40.00	-6.92	235	100
224.3888	10.12	peak	13.68	23.80	46.00	-22.20	110	100
300.2004	15.90	peak	15.91	31.81	46.00	-14.19	150	100
445.9920	18.80	peak	19.97	38.77	46.00	-7.23	40	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
11510.0000	34.29	---	13.06	47.35	---	74.00	54.00	-26.65	235	100
17265.0000	26.82	---	22.39	49.21	---	74.00	54.00	-24.79	75	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9436	24.95	QP	13.30	38.25	40.00	-1.75	65	100
103.8675	21.23	peak	11.65	32.88	43.50	-10.62	135	100
296.3125	13.94	peak	15.87	29.81	46.00	-16.19	70	100
445.9920	14.93	peak	19.97	34.90	46.00	-11.10	140	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
11510.0000	34.32	---	13.06	47.38	---	74.00	54.00	-26.62	170	100
17265.0000	27.18	---	22.39	49.57	---	74.00	54.00	-24.43	45	100



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

Mode: 802.11n 40MHz ch159 TX

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9436	22.43	peak	13.30	35.73	40.00	-4.27	220	100
300.2004	18.01	peak	15.91	33.92	46.00	-12.08	130	100
445.9920	21.15	peak	19.97	41.12	46.00	-4.88	175	100
743.4067	11.84	peak	24.82	36.66	46.00	-9.34	115	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
11590.0000	34.31	---	13.55	47.86	---	74.00	54.00	-26.14	55	100
17385.0000	27.38	---	21.14	48.52	---	74.00	54.00	-25.48	260	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
31.9436	24.89	QP	13.30	38.19	40.00	-1.81	55	100
103.8675	22.20	peak	11.65	33.85	43.50	-9.65	140	100
296.3125	19.36	peak	15.87	35.23	46.00	-10.77	70	100
445.9920	16.52	peak	19.97	36.49	46.00	-9.51	135	100

Frequency (MHz)	Reading (dBuV) Peak Ave.	Factor (dB) Corr.	Result @3m (dBuV/m) Peak Ave.	Limit @3m (dBuV/m) Peak Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)			
11590.0000	34.99	---	13.55	48.54	---	74.00	54.00	-25.46	60	100
17385.0000	26.75	---	21.14	47.89	---	74.00	54.00	-26.11	210	100

## 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.
5. Measurement uncertainty for 3m measurement: 30-1000 MHz =  $\pm 3.72$  dB, 1-18 GHz =  $\pm 5.33$  dB, 18-40 GHz=  $\pm 3.43$  dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.
6. See attached diagrams in appendix.

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

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 111,  
ETSTW-RE 088, ETSTW-RE 018



# Worldwide Testing Services(Taiwan) Co., Ltd.

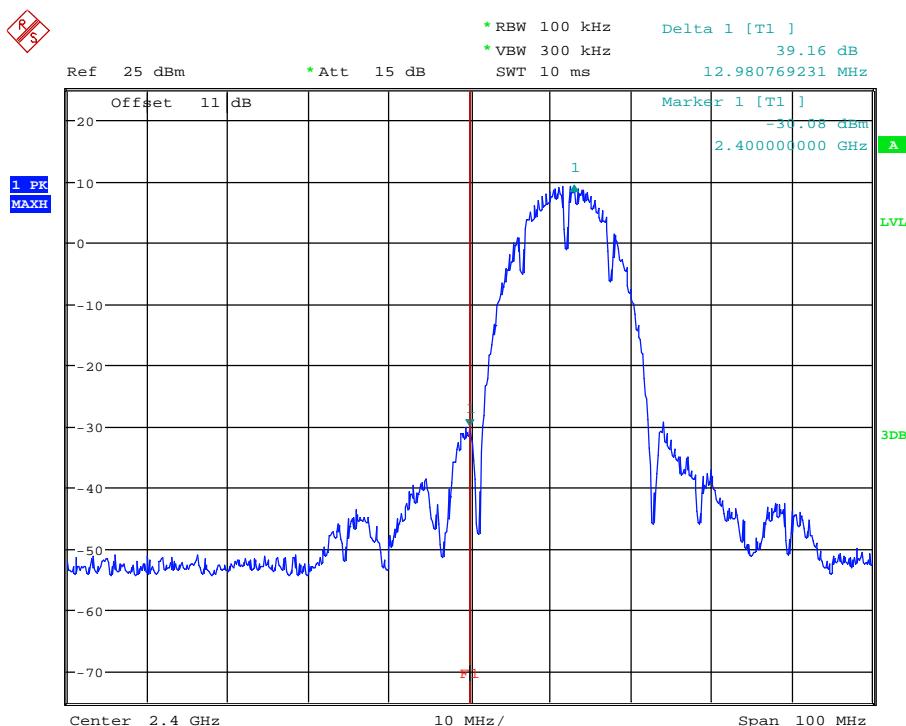
Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

## 3.6 Radiated Emission on the band edge

According to FCC rules part 15 subpart C §15.247(c) 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 emission which fall in the restricted bands, as defined in section 15.205(a), must also with the radiated emission limits.

### ANT A (ANT 1) WLAN 2.4GHz



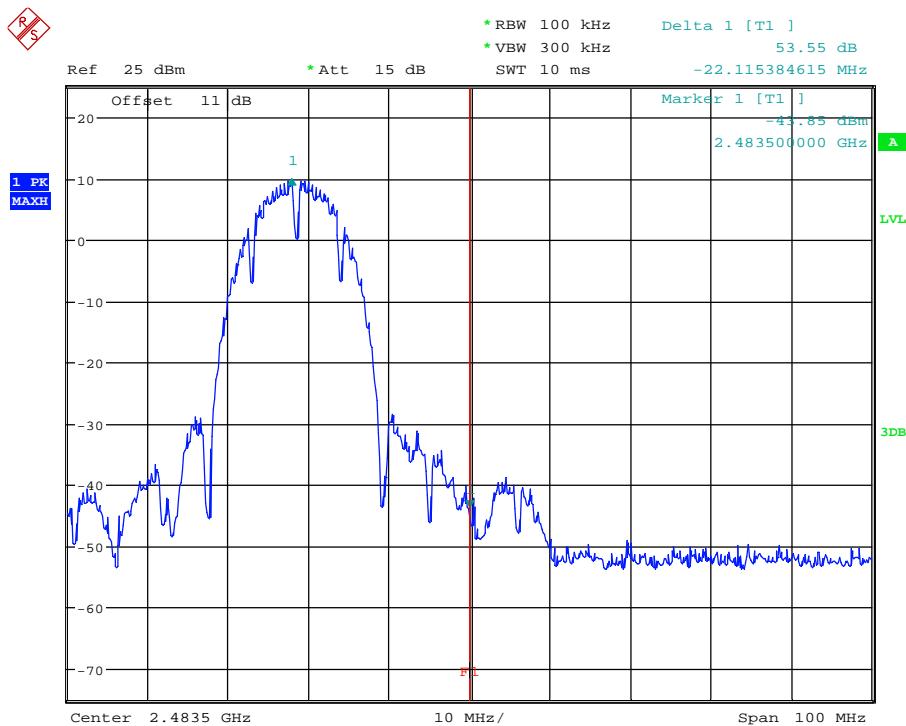
BANDEdge 802.11B CH01  
Date: 3.OCT.2013 18:01:35



# Worldwide Testing Services(Taiwan) Co., Ltd.

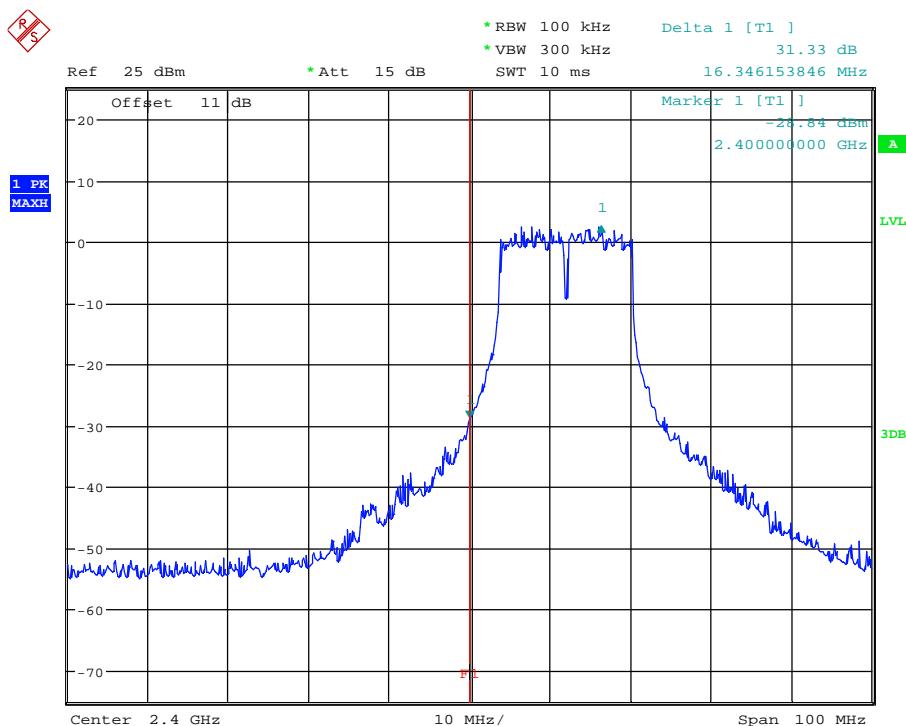
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



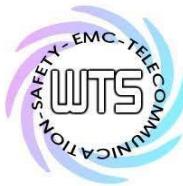
BANDEDGE 802.11B CH11

Date: 3.OCT.2013 18:03:36



BANDEDGE 802.11G CH01

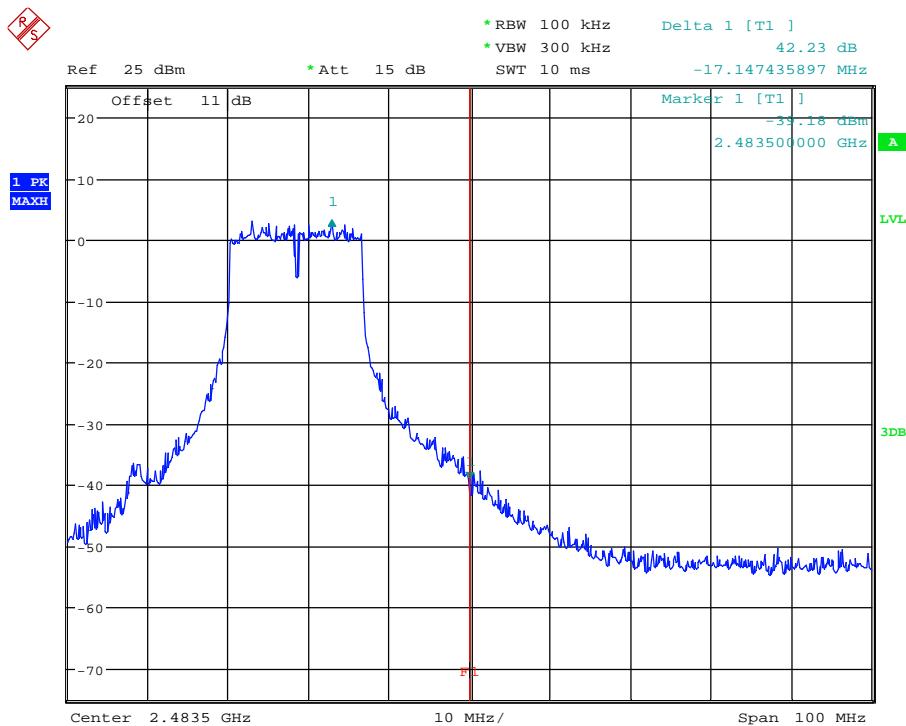
Date: 3.OCT.2013 18:05:08



# Worldwide Testing Services(Taiwan) Co., Ltd.

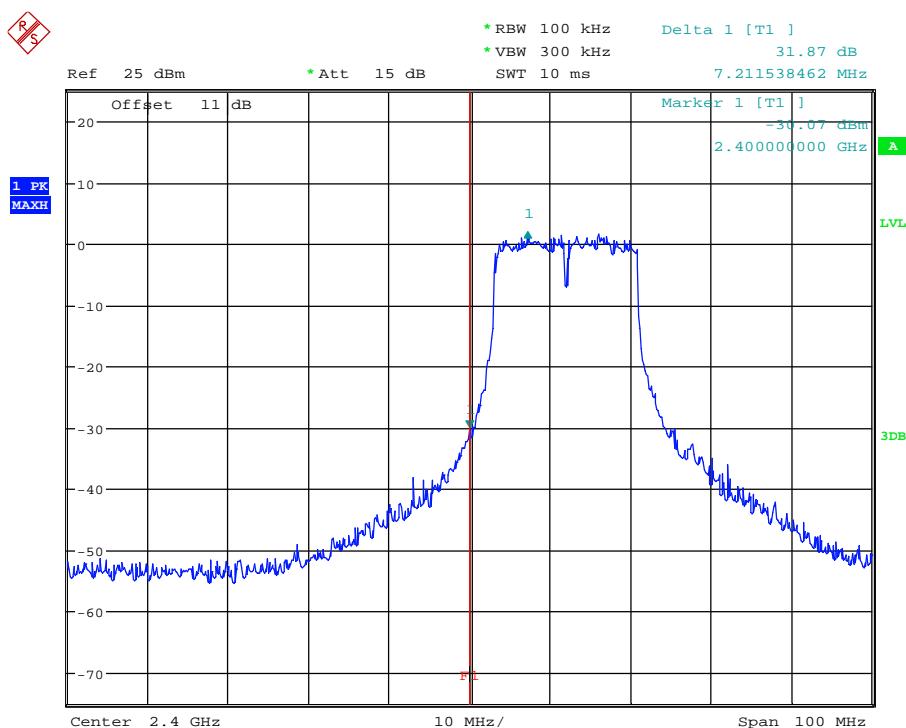
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



BANDEDGE 802.11G CH11

Date: 3.OCT.2013 18:07:10



BANDEDGE 802.11N 20MHZ CH01

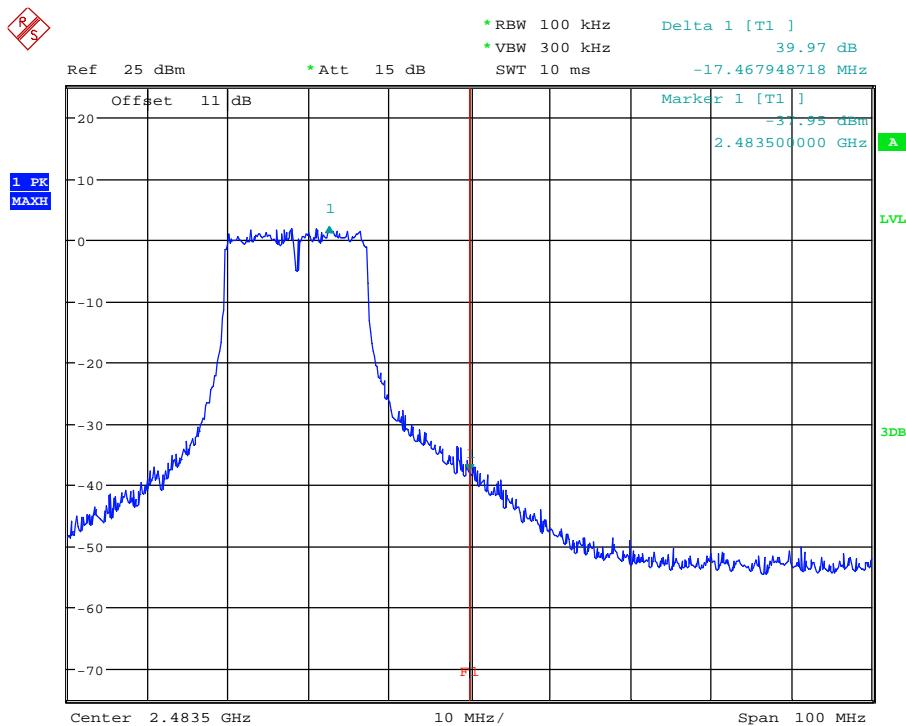
Date: 3.OCT.2013 18:09:41



# Worldwide Testing Services(Taiwan) Co., Ltd.

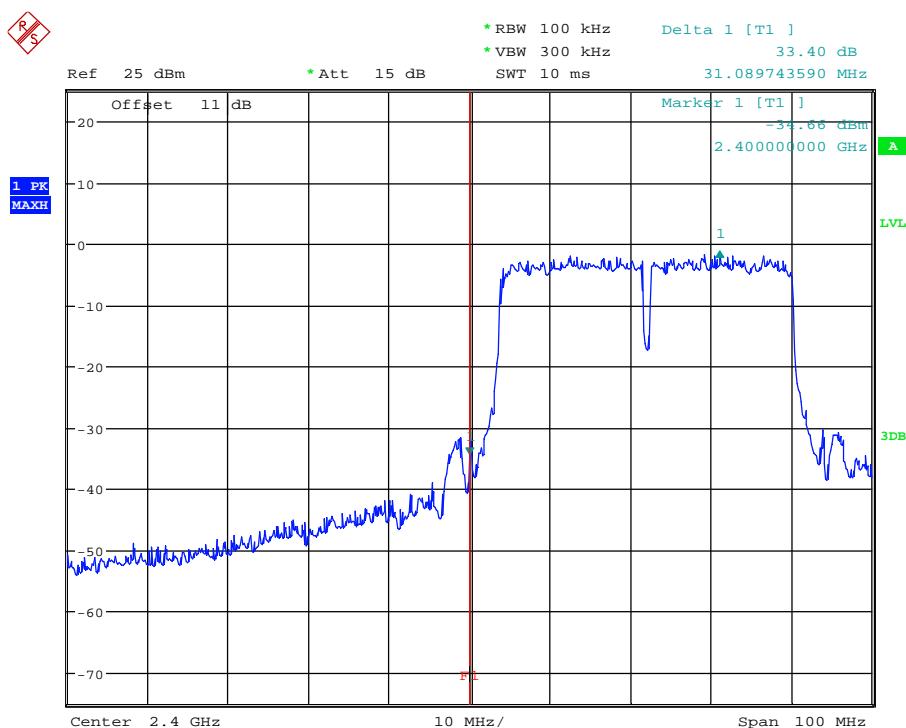
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



BANDEDGE 802.11N 20MHZ CH11

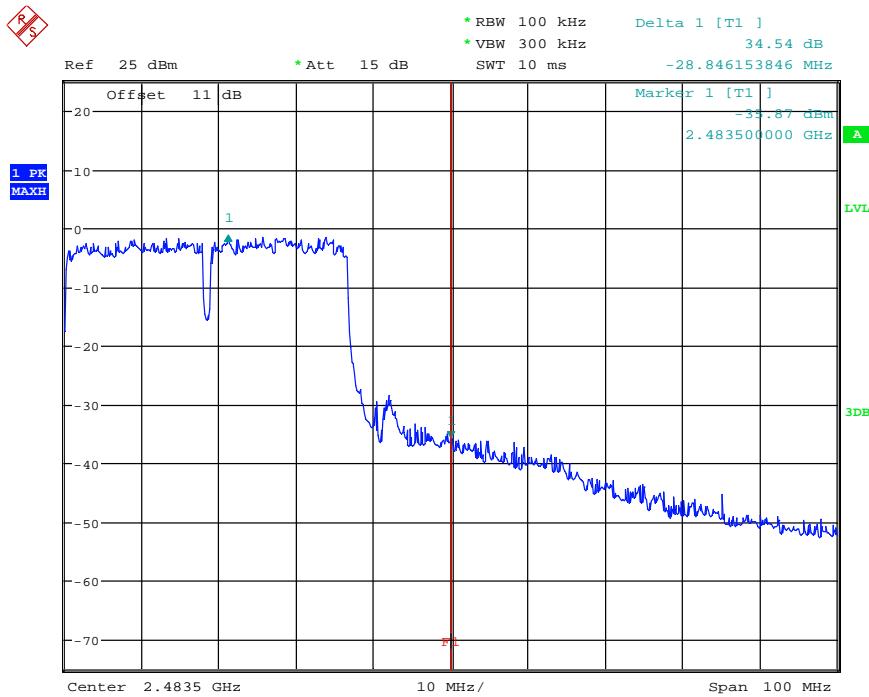
Date: 3.OCT.2013 18:11:10



BANDEDGE 802.11N 40MHZ CH01

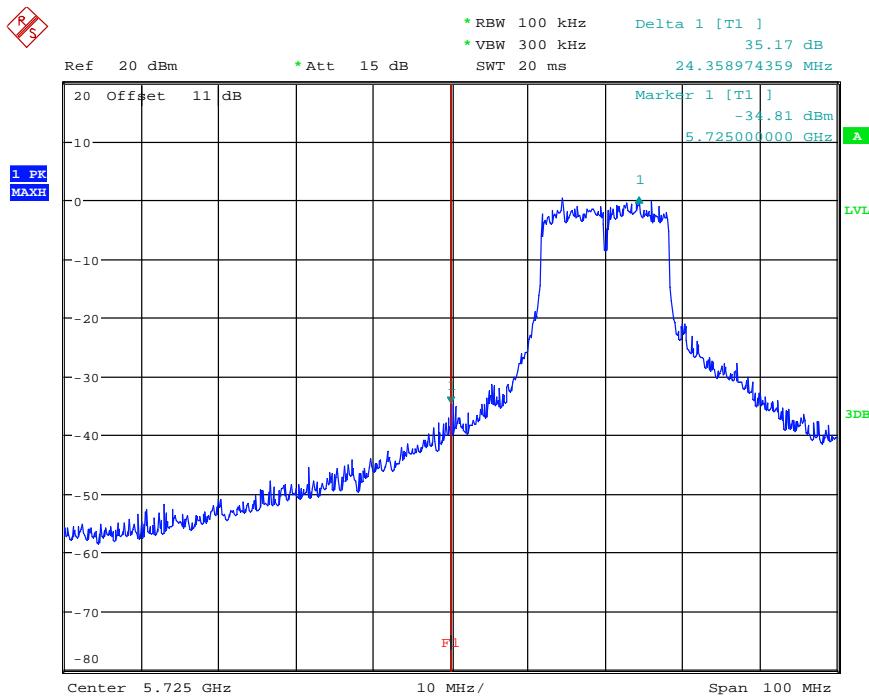
Date: 3.OCT.2013 18:12:54

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



BANDEDGE 802.11N 40MHZ CH07  
Date: 3.OCT.2013 18:14:43

## WLAN 5.745 ~ 5.825 GHz



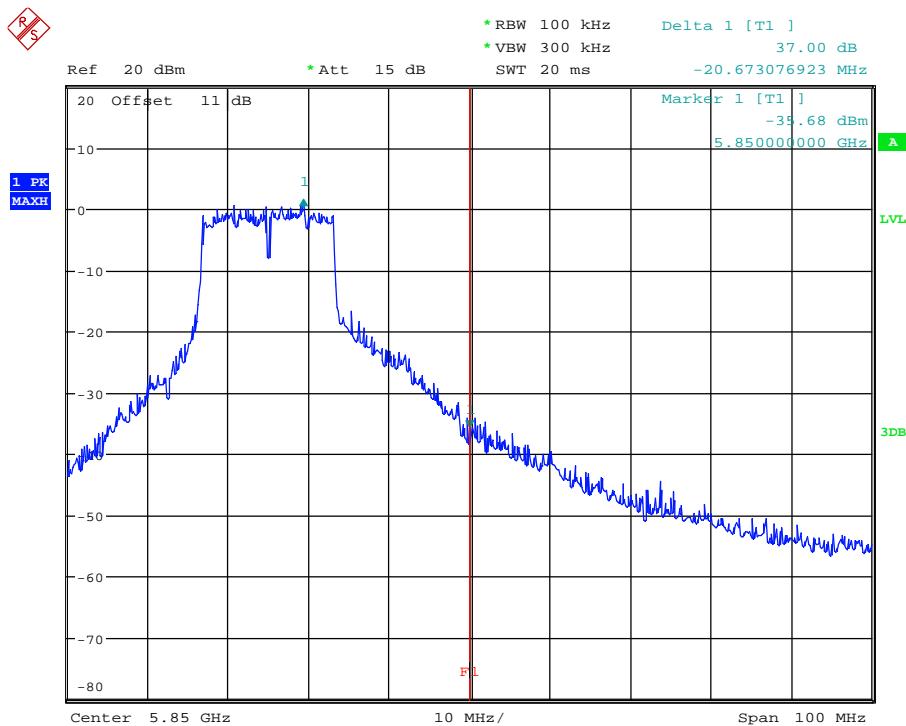
BANDEDGE 802.11A CH149  
Date: 3.OCT.2013 19:31:05



# Worldwide Testing Services(Taiwan) Co., Ltd.

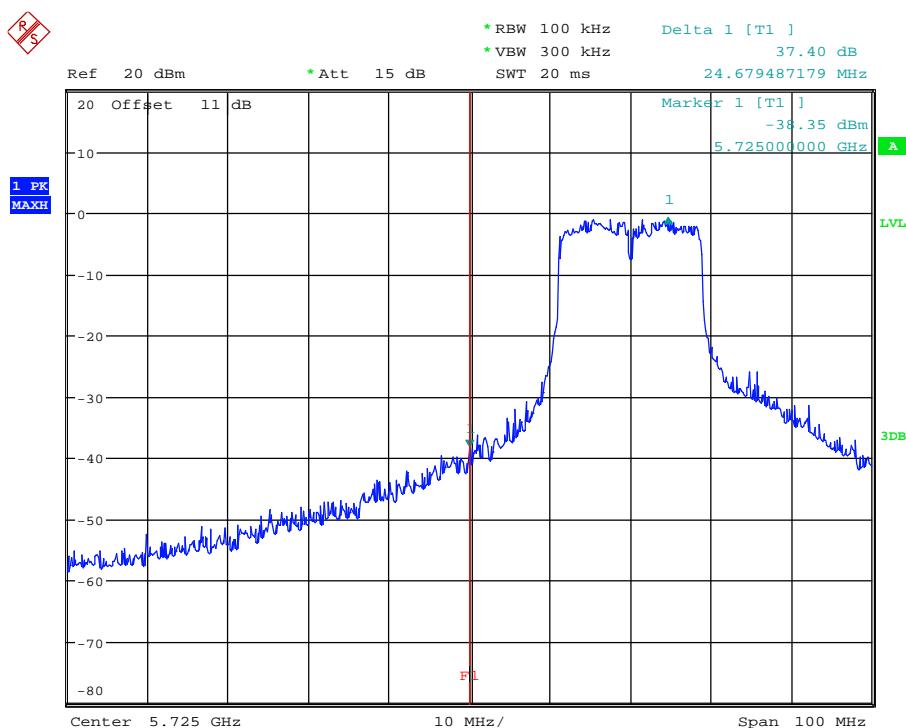
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



BANDEDGE 802.11A CH165

Date: 3.OCT.2013 19:38:45



BANDEDGE 802.11N 20MHZ CH149

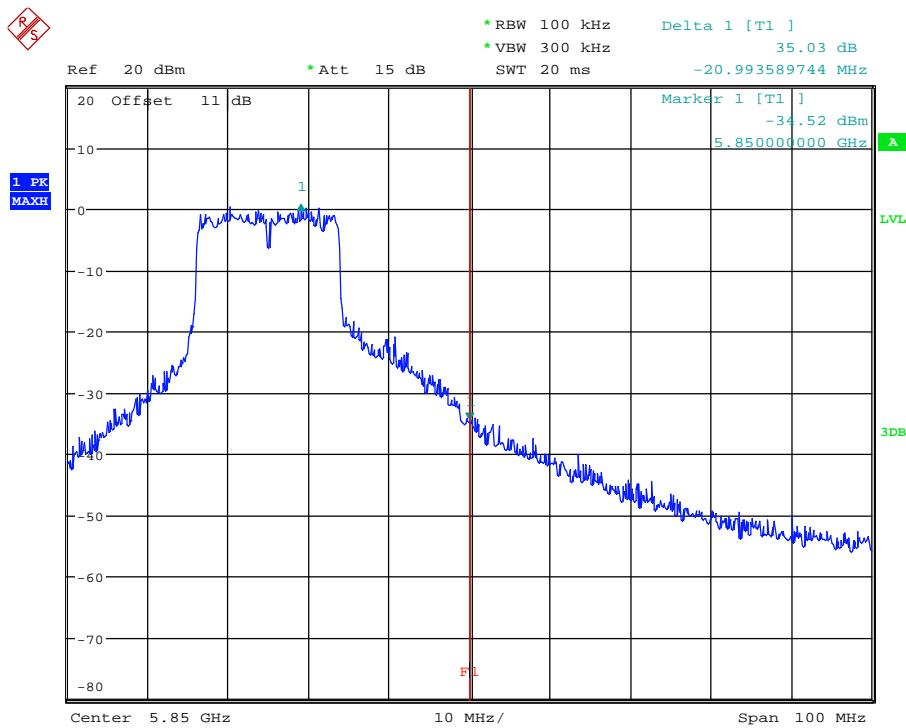
Date: 3.OCT.2013 19:35:13



# Worldwide Testing Services(Taiwan) Co., Ltd.

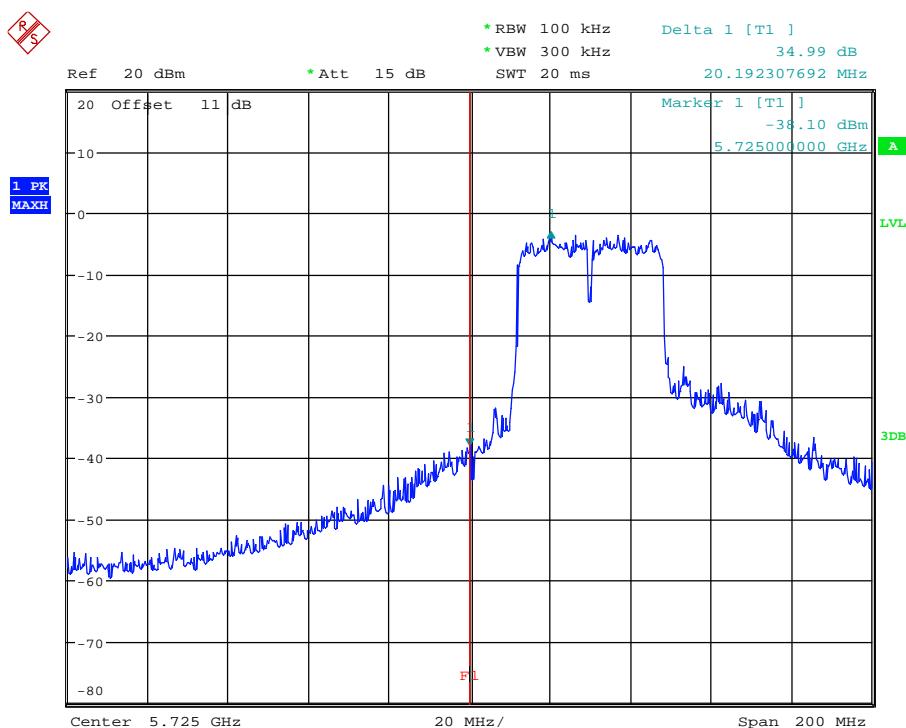
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



BANDEDGE 802.11N 20MHZ CH165

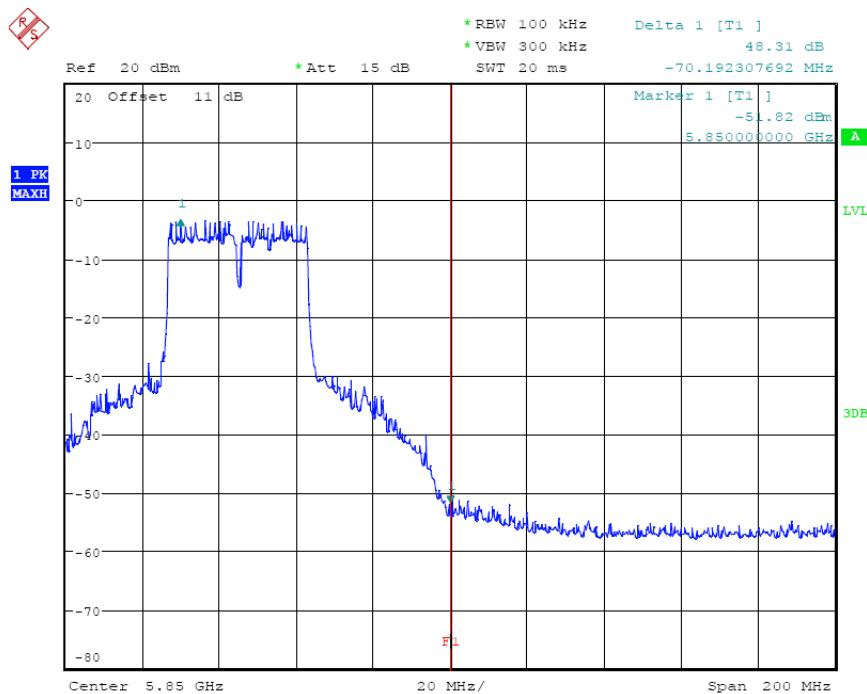
Date: 3.OCT.2013 19:37:28



BANDEDGE 802.11N 40MHZ CH151

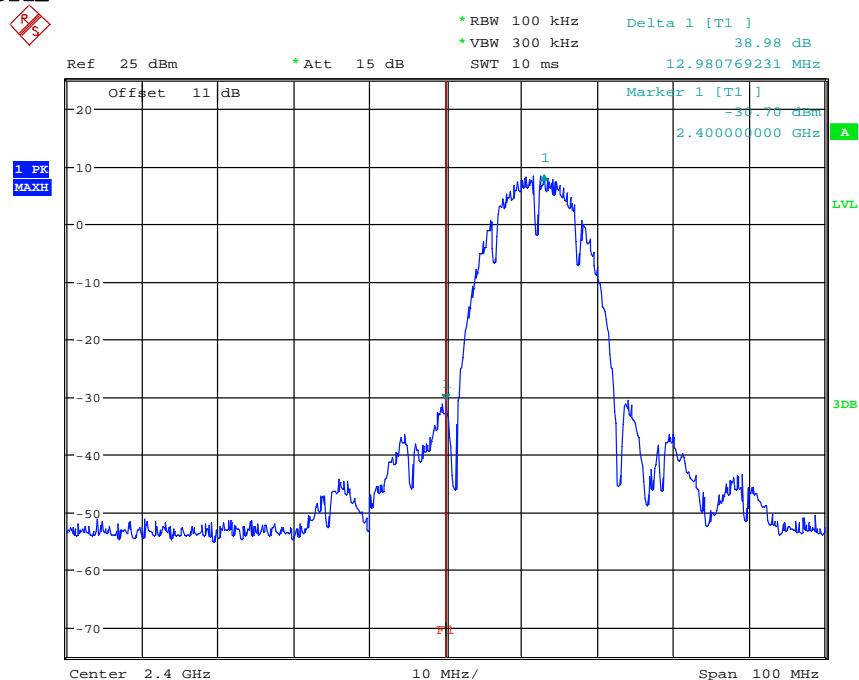
Date: 3.OCT.2013 19:41:07

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



BANDEDGE 802.11N 40MHz CH159  
Date: 3.OCT.2013 22:35:42

## ANT B (ANT 2) WLAN 2.4GHz



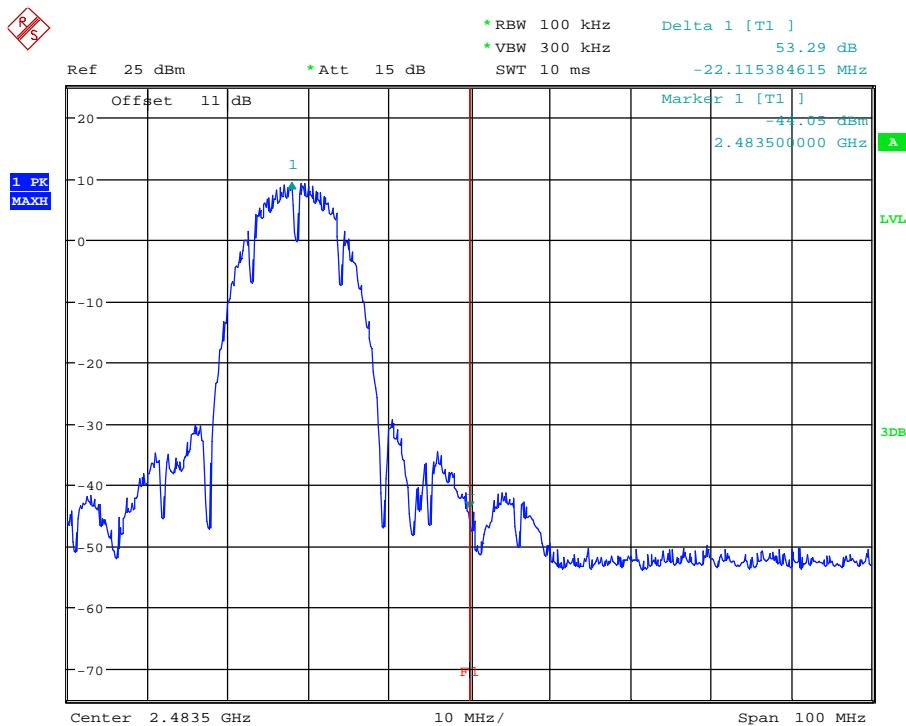
BANDEDGE 802.11B CH01  
Date: 3.OCT.2013 18:21:01



# Worldwide Testing Services(Taiwan) Co., Ltd.

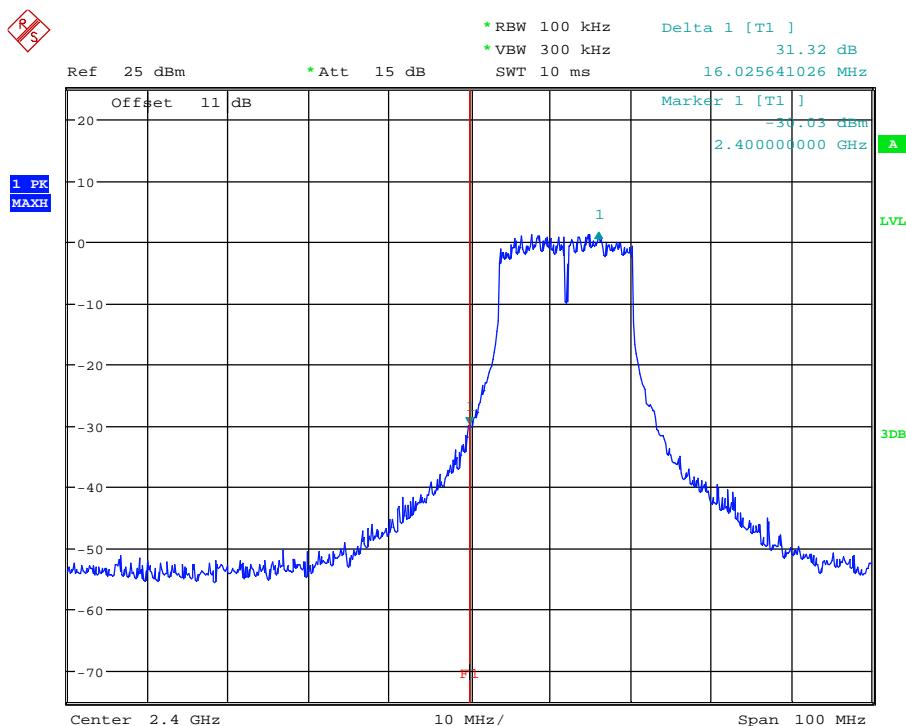
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



BANDEDGE 802.11B CH11

Date: 3.OCT.2013 18:23:46



BANDEDGE 802.11G CH01

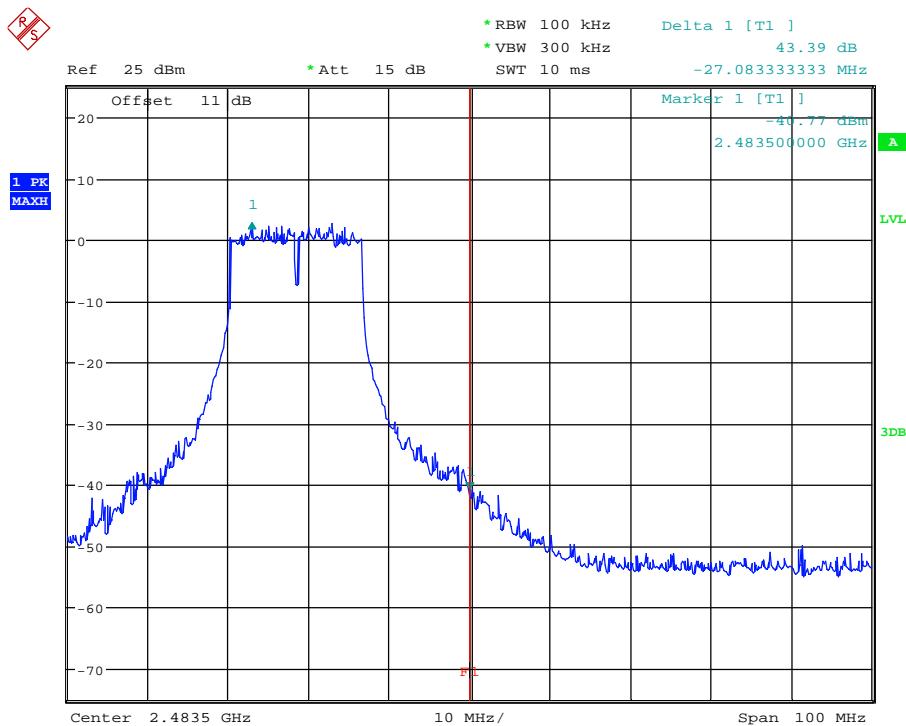
Date: 3.OCT.2013 18:24:48



# Worldwide Testing Services(Taiwan) Co., Ltd.

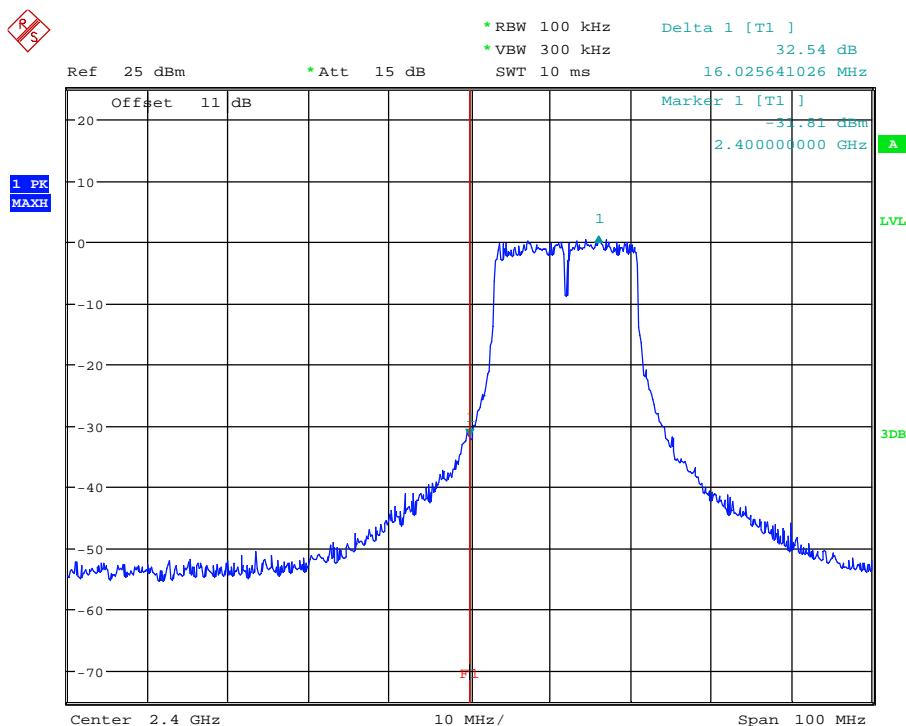
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



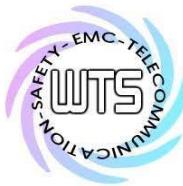
BANDEDGE 802.11G CH11

Date: 3.OCT.2013 18:26:37



BANDEDGE 802.11N 20MHZ CH01

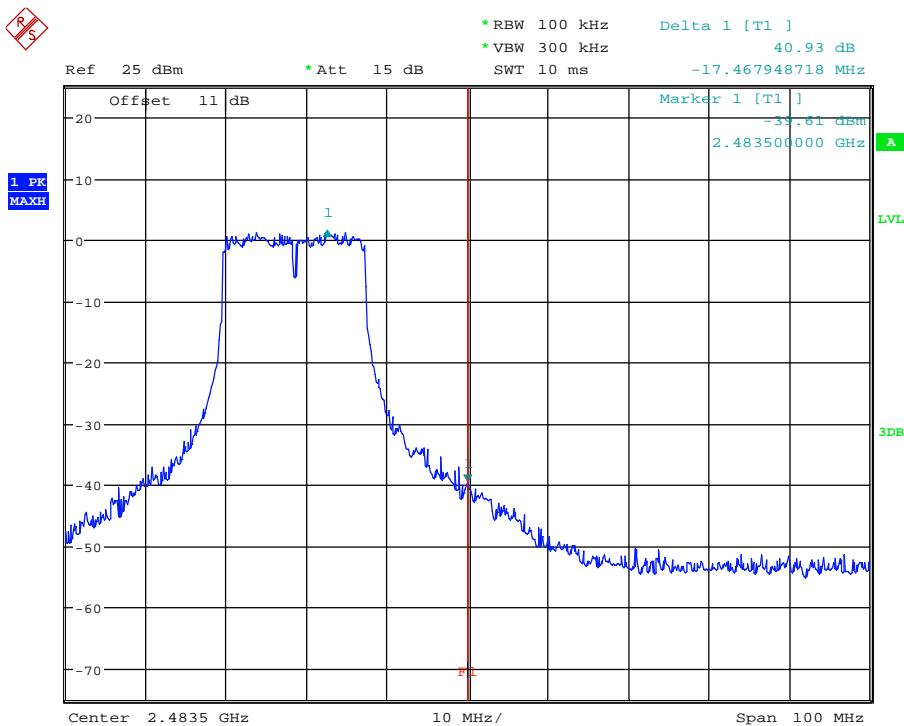
Date: 3.OCT.2013 18:30:34



# Worldwide Testing Services(Taiwan) Co., Ltd.

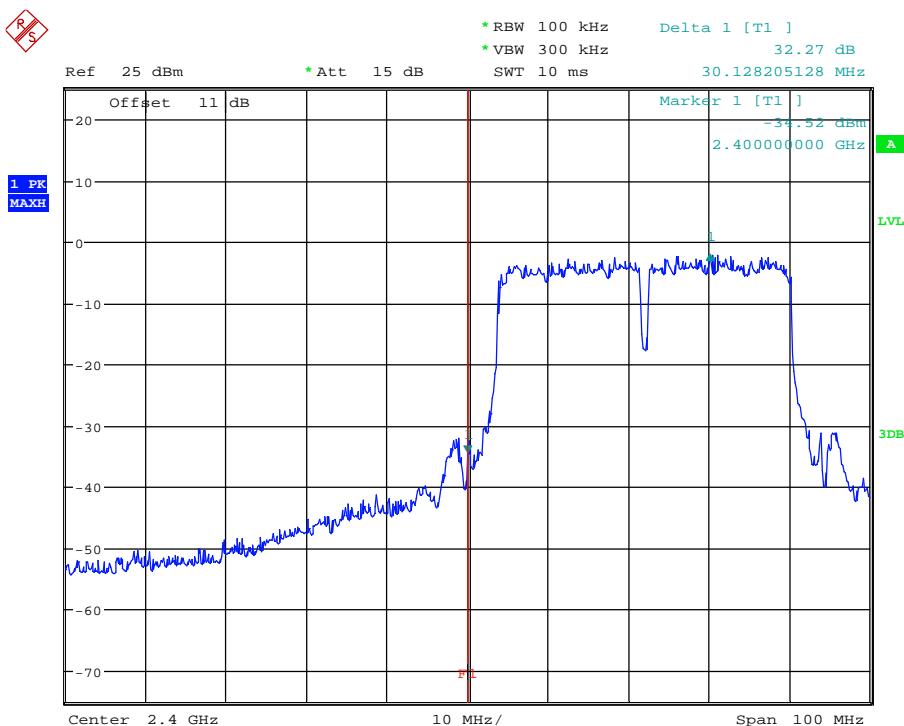
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



BANDEDGE 802.11N 20MHZ CH11

Date: 3.OCT.2013 18:33:46



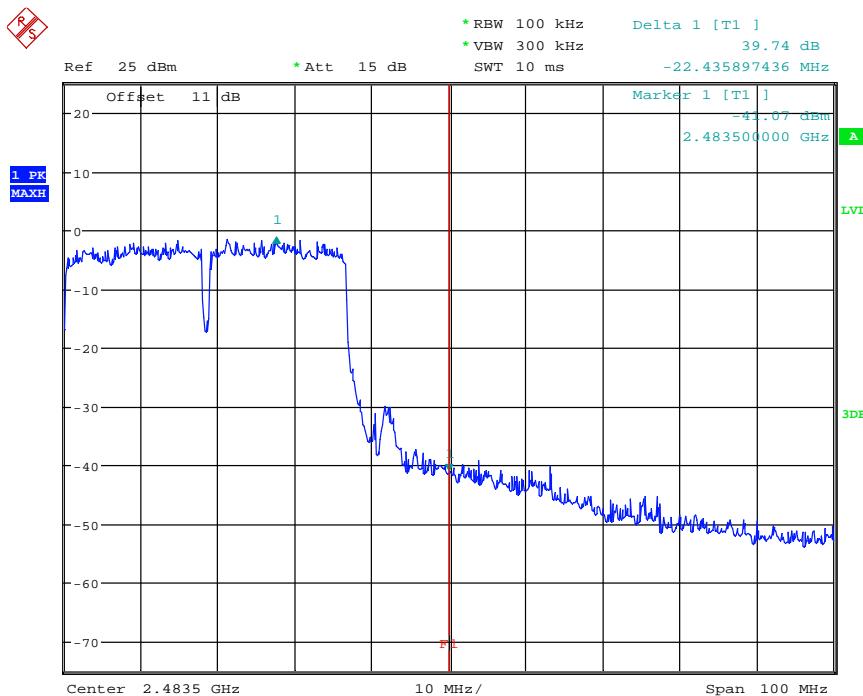
BANDEDGE 802.11N 40MHZ CH01

Date: 3.OCT.2013 18:35:29



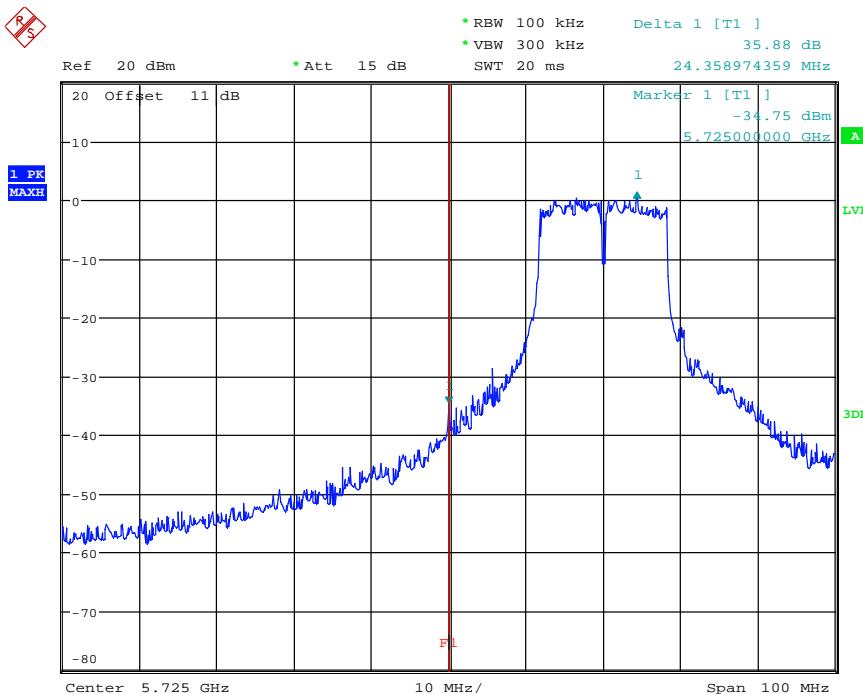
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



BANDEDGE 802.11N 40MHZ CH07  
Date: 3.OCT.2013 18:37:06

## WLAN 5.745 ~ 5.825 GHz

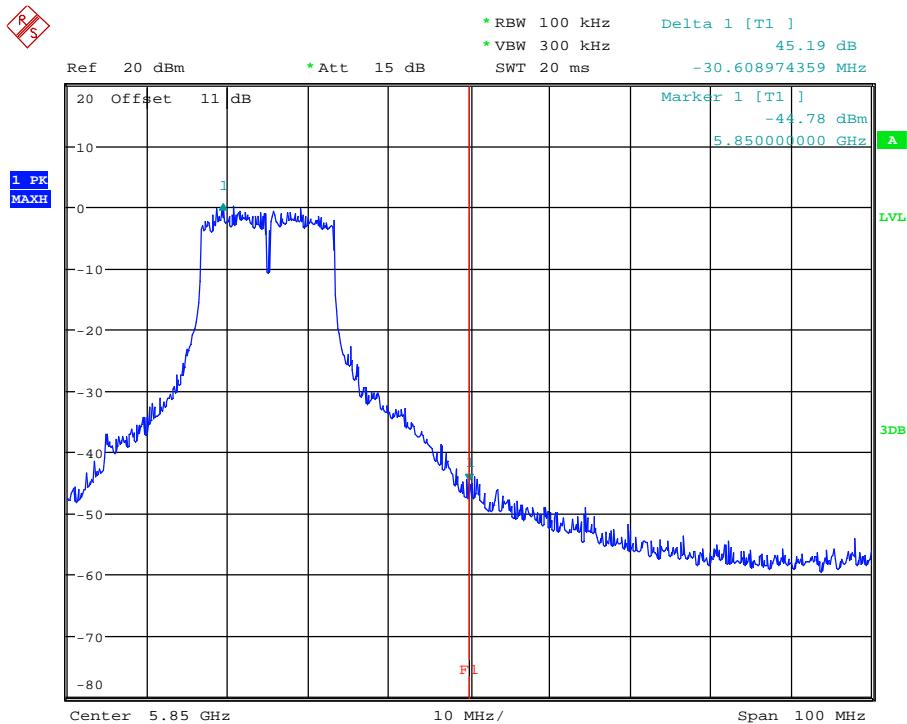


BANDEDGE 802.11A CH149  
Date: 3.OCT.2013 18:48:39

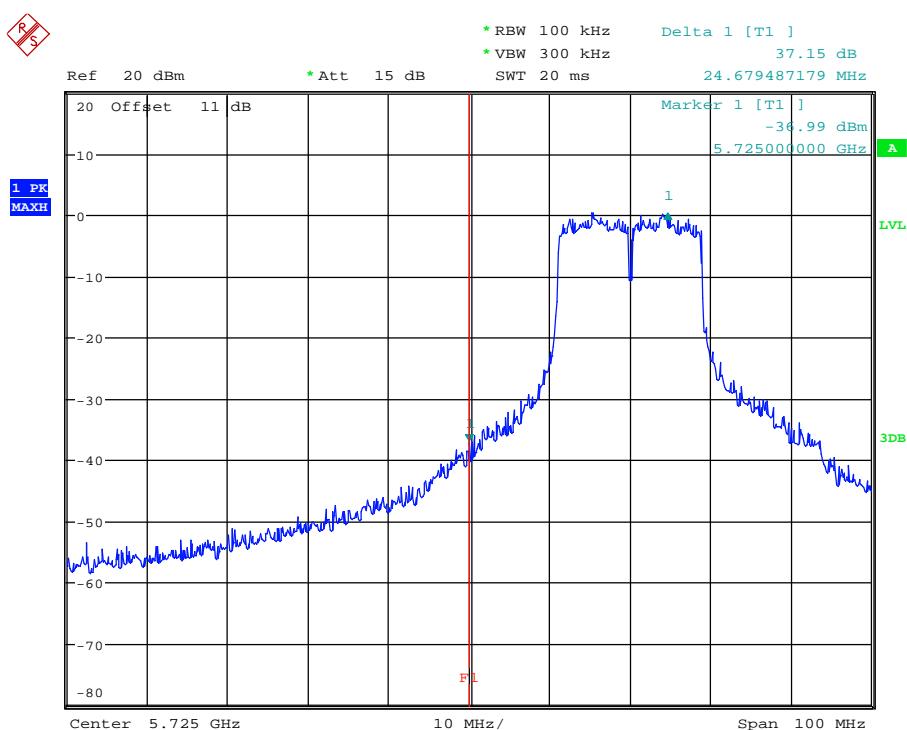


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

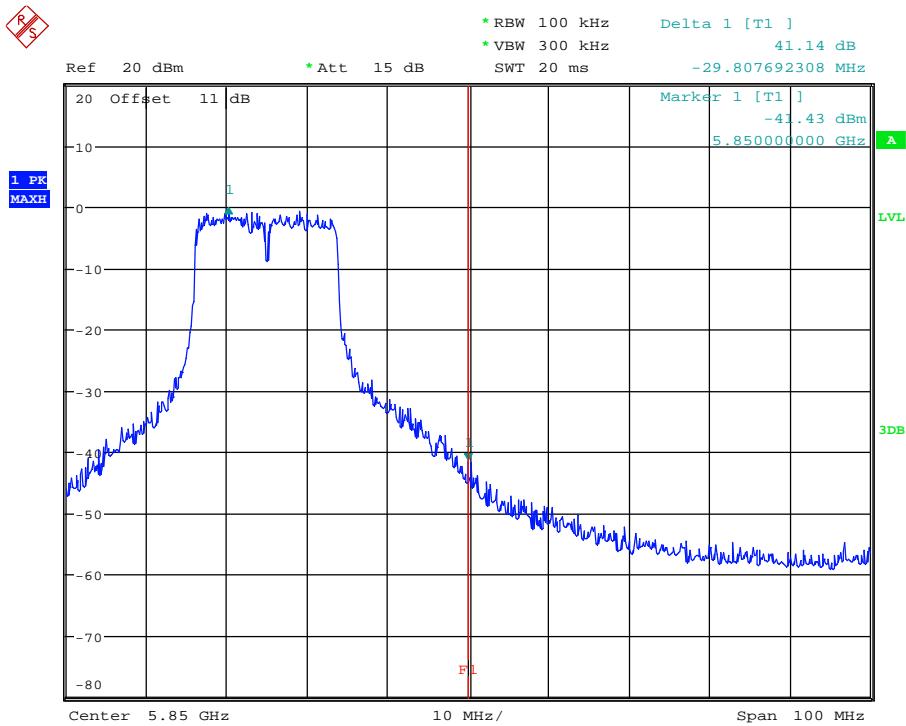


BANDEdge 802.11A CH165  
Date: 3.OCT.2013 19:13:08

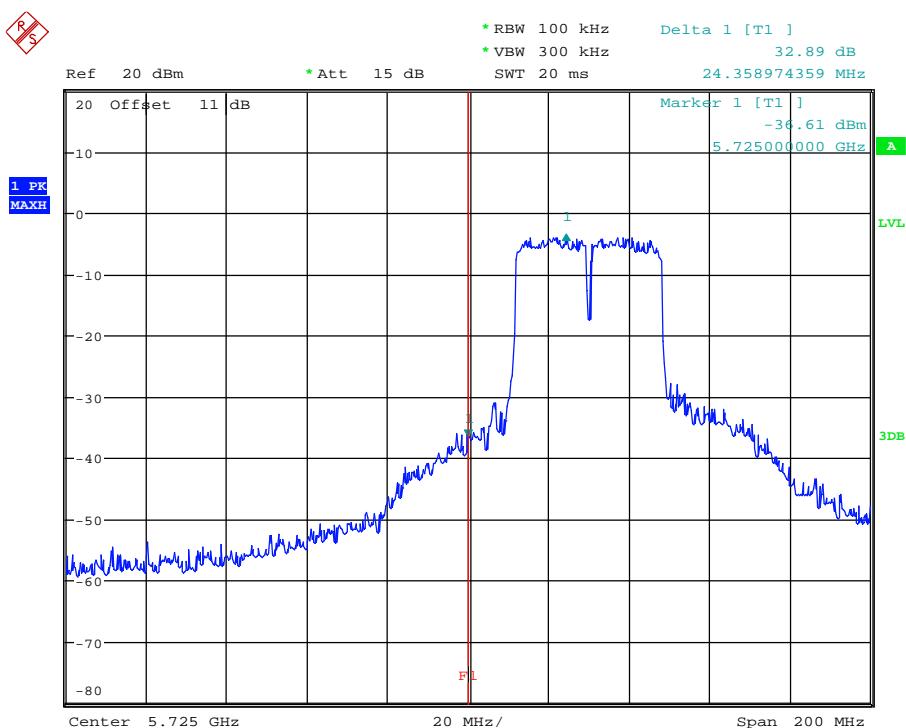


BANDEdge 802.11N 20MHZ CH149  
Date: 3.OCT.2013 19:14:22

Registration number: W6M21308-13478-C-1  
 FCC ID: 2AA4J-W6M2130813478



BANDEEDGE 802.11N 20MHZ CH165  
 Date: 3.OCT.2013 19:17:15

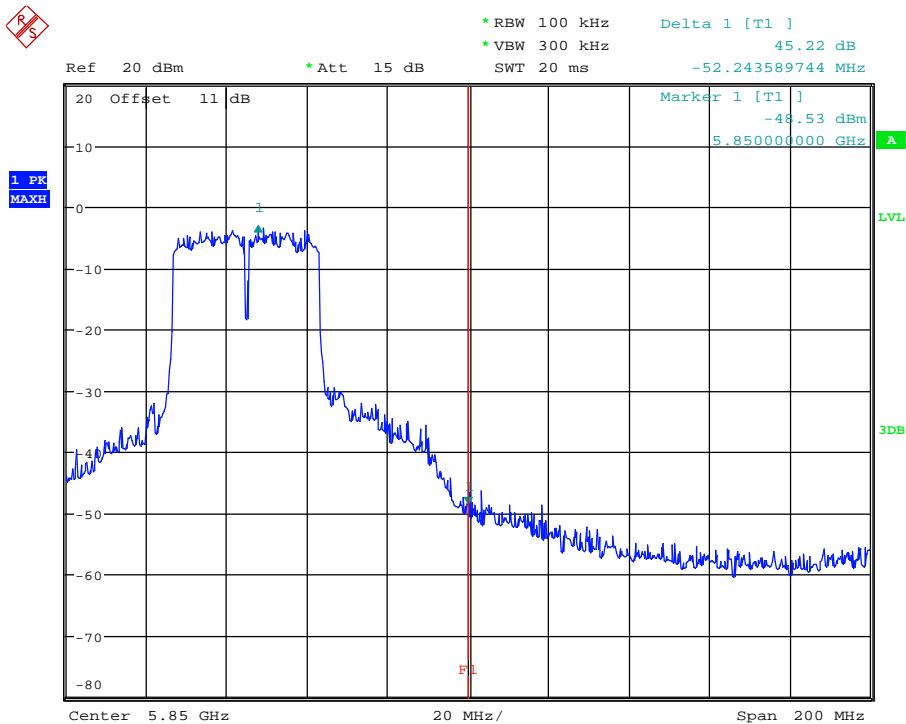


BANDEEDGE 802.11N 40MHZ CH151  
 Date: 3.OCT.2013 19:18:44



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



BANDEdge 802.11N 40MHZ CH159  
Date: 3.OCT.2013 19:20:18

Limit:

Frequency Range / MHz	Limit
902 – 928	
2400 – 2483.5	- 20 dB
5725 - 5850	

Test equipment used: ETSTW-RE 055, ETSTW-RE 050

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

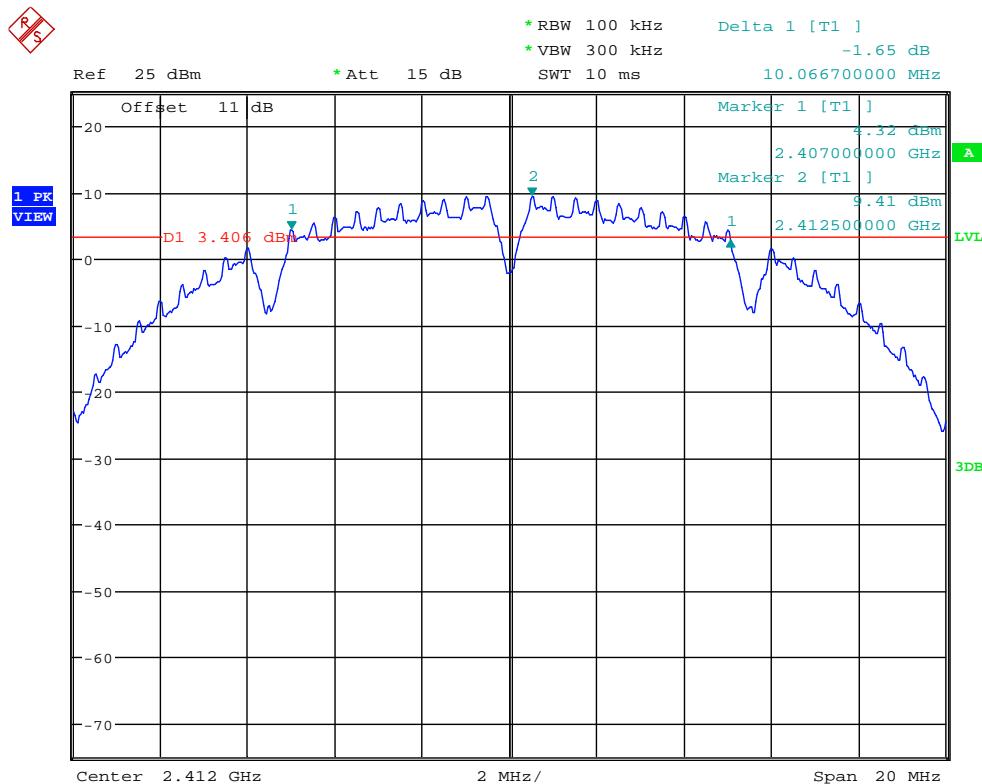
### 3.7 Minimum 6 dB Bandwidth

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.

ANT A (ANT 1)

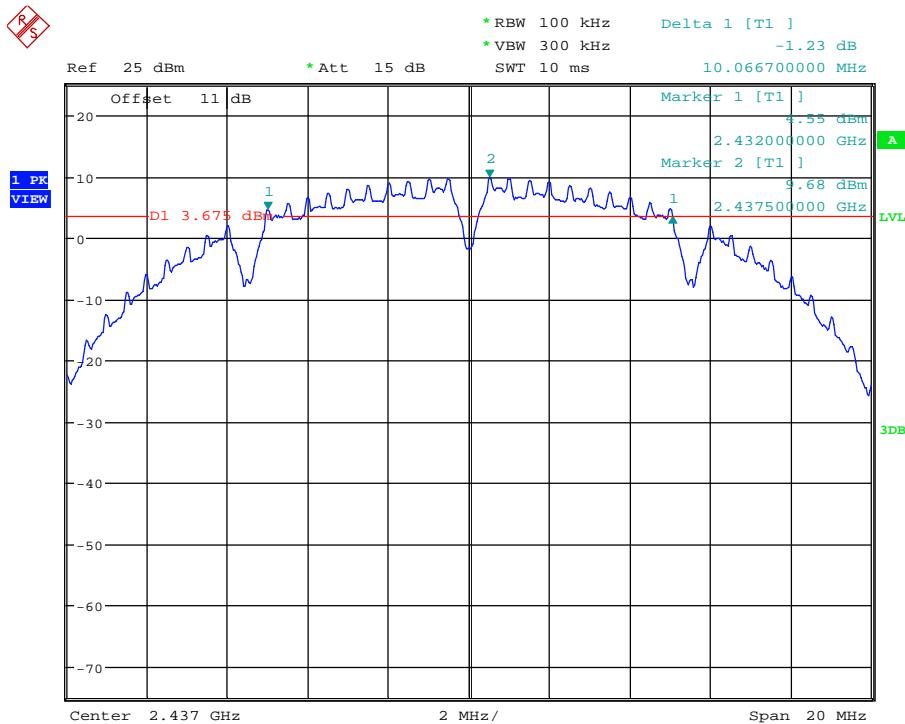
WLAN 2.4GHz



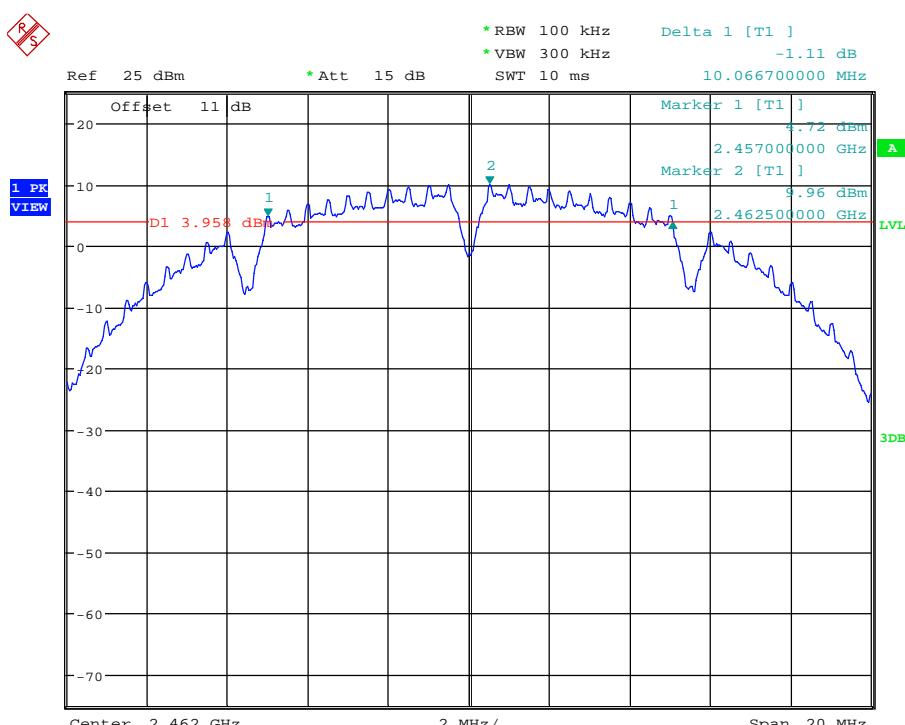
6DB BANDWIDTH 802.11B CH01

Date: 3.OCT.2013 18:01:22

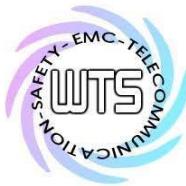
Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11B CH06  
Date: 3.OCT.2013 18:02:37



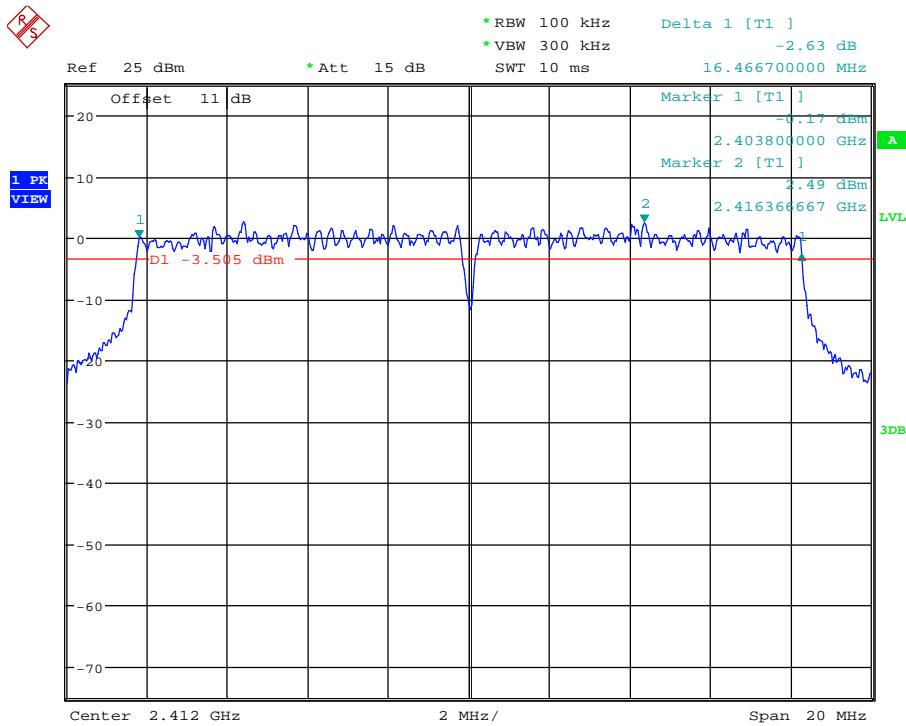
6DB BANDWIDTH 802.11B CH11  
Date: 3.OCT.2013 18:03:23



# Worldwide Testing Services(Taiwan) Co., Ltd.

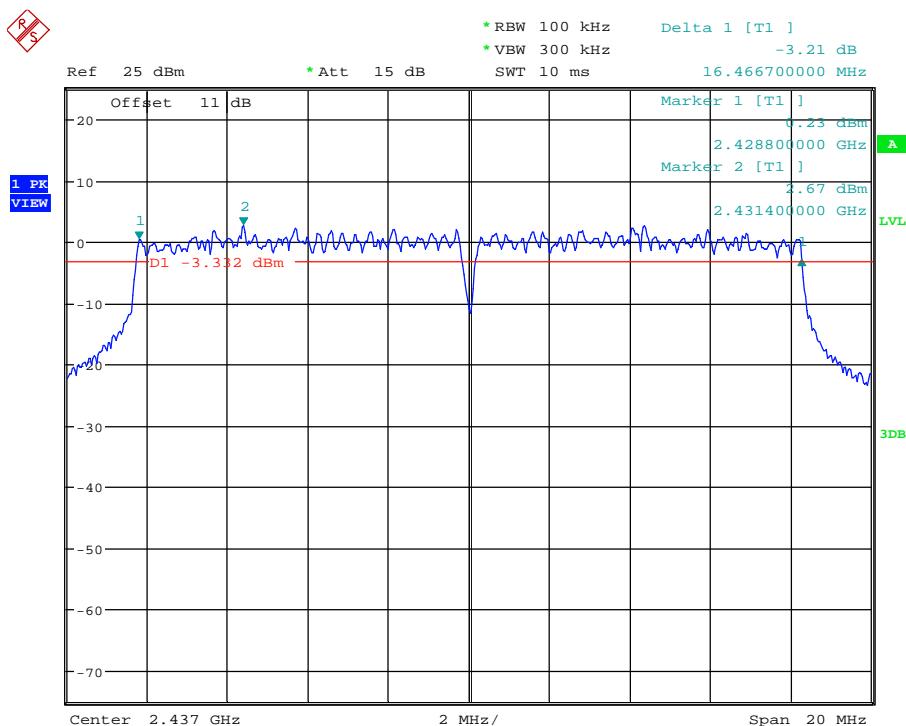
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11G CH01

Date: 3.OCT.2013 18:04:55



6DB BANDWIDTH 802.11G CH06

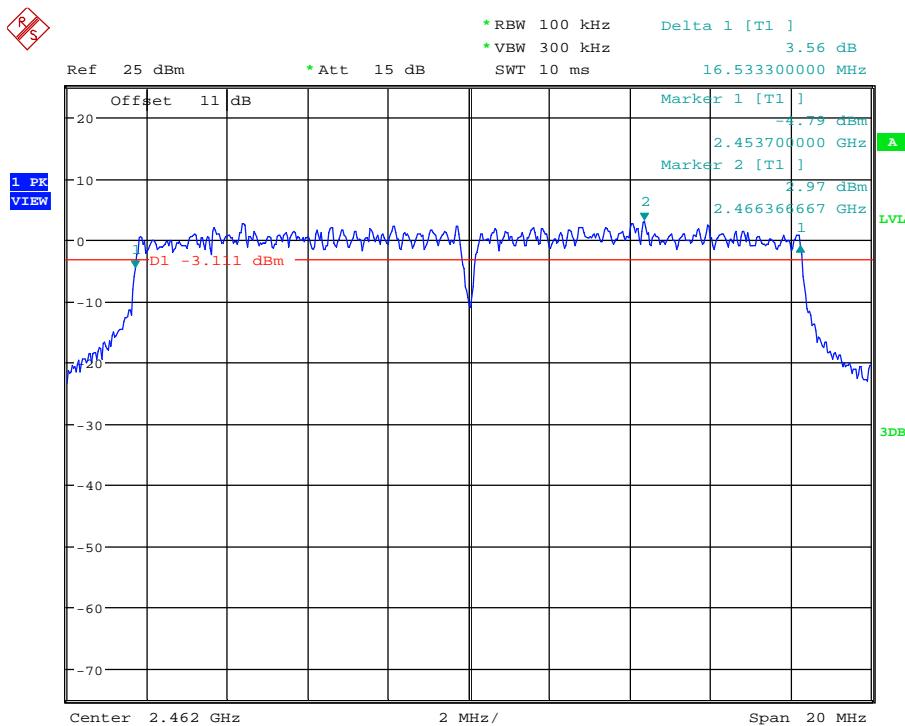
Date: 3.OCT.2013 18:05:43



# Worldwide Testing Services(Taiwan) Co., Ltd.

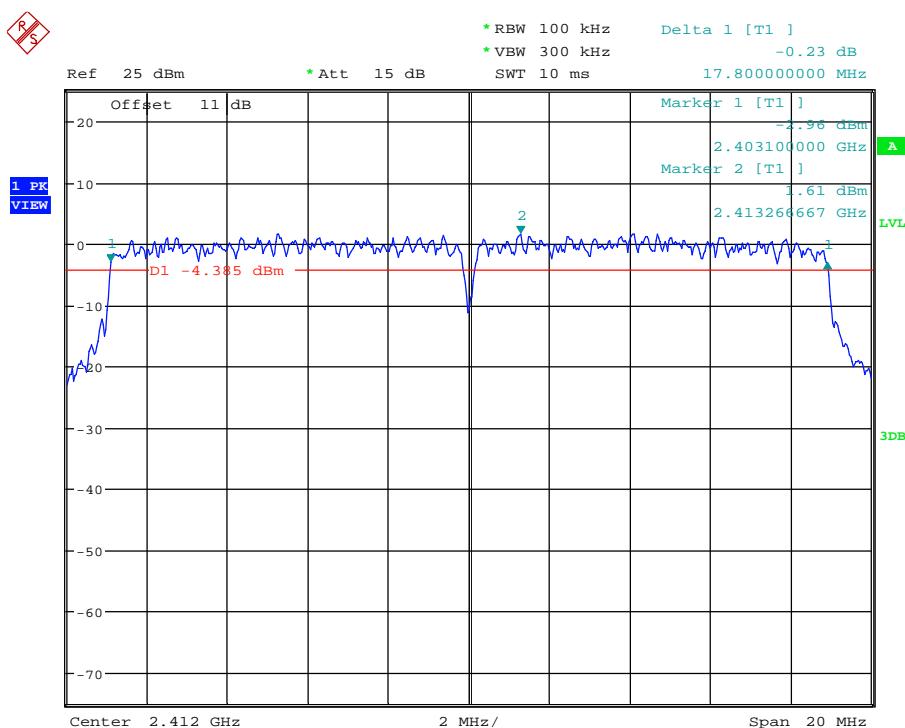
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11G CH11

Date: 3.OCT.2013 18:06:57



6DB BANDWIDTH 802.11N 20MHz CH01

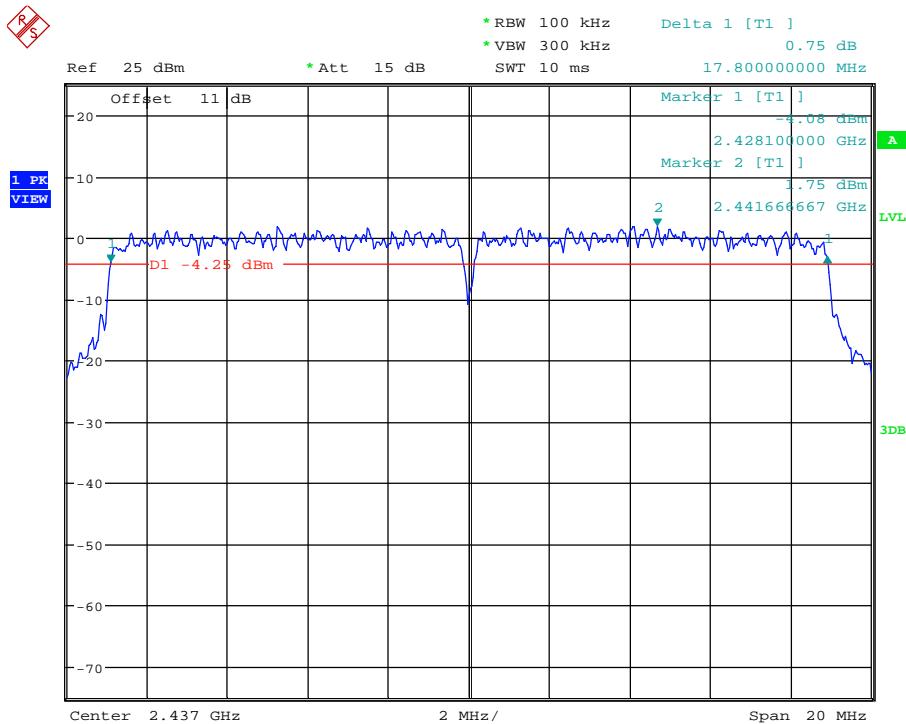
Date: 3.OCT.2013 18:09:28



# Worldwide Testing Services(Taiwan) Co., Ltd.

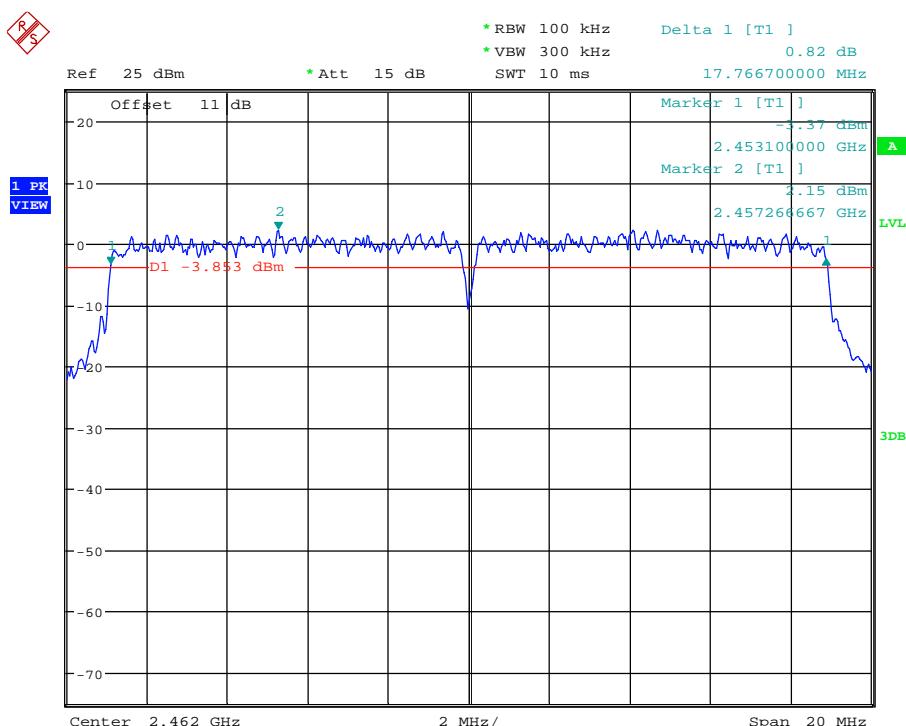
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11N 20MHZ CH06

Date: 3.OCT.2013 18:10:16



6DB BANDWIDTH 802.11N 20MHZ CH11

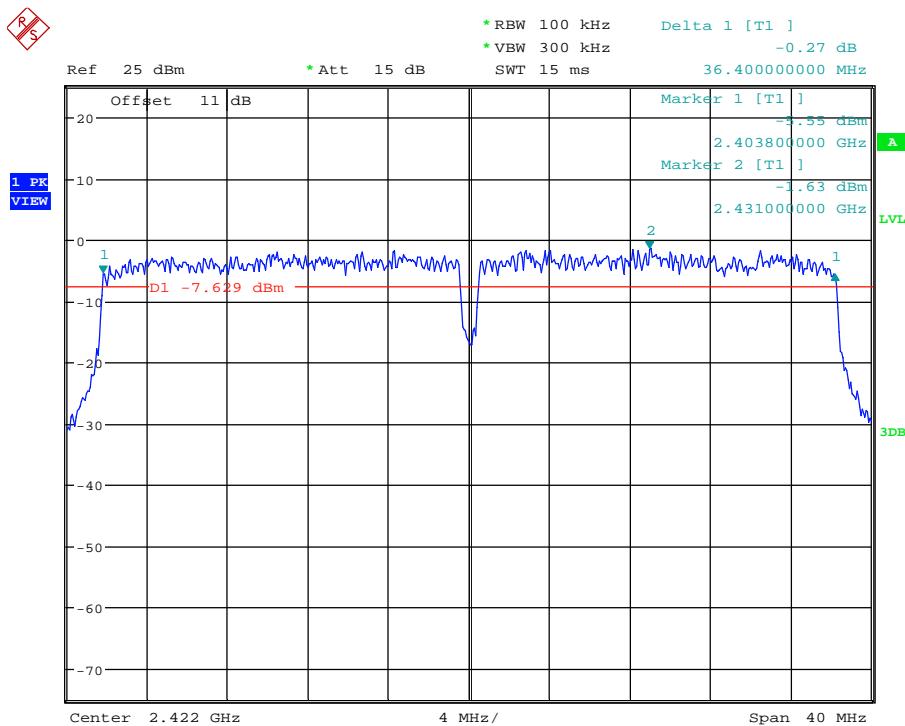
Date: 3.OCT.2013 18:10:57



# Worldwide Testing Services(Taiwan) Co., Ltd.

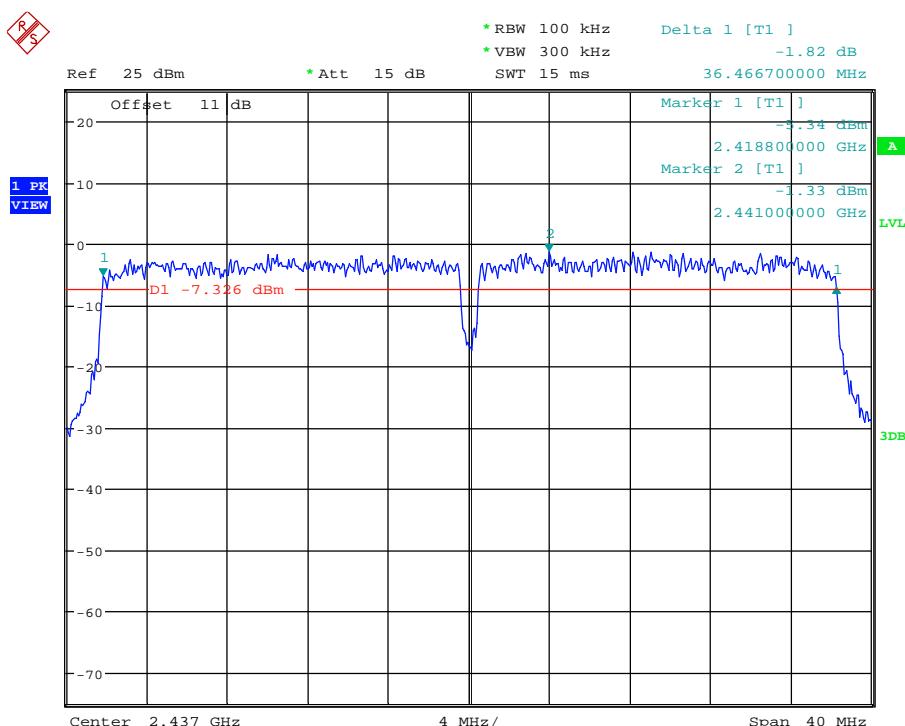
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11N 40MHZ CH01

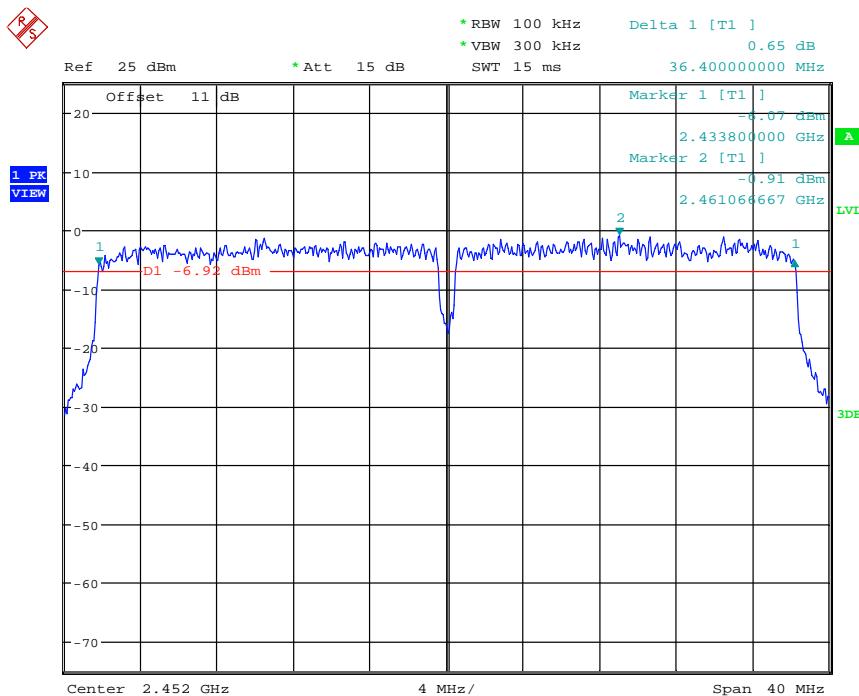
Date: 3.OCT.2013 18:12:41



6DB BANDWIDTH 802.11N 40MHZ CH04

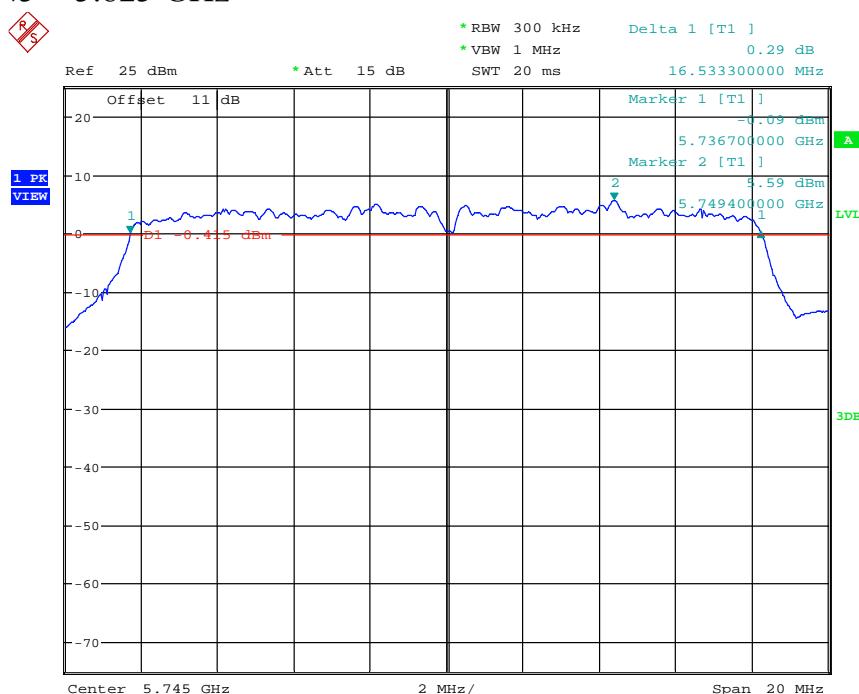
Date: 3.OCT.2013 18:13:43

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11N 40MHZ CH07  
Date: 3.OCT.2013 18:14:30

## WLAN 5.745 ~ 5.825 GHz



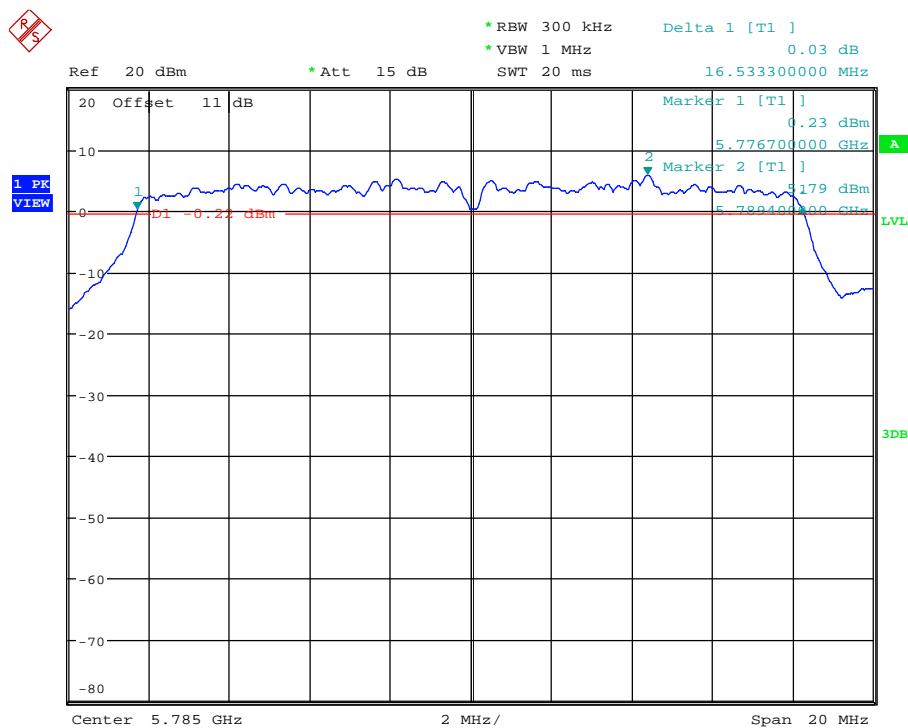
6DB BANDWIDTH 802.11A CH149  
Date: 3.OCT.2013 19:30:53



# Worldwide Testing Services(Taiwan) Co., Ltd.

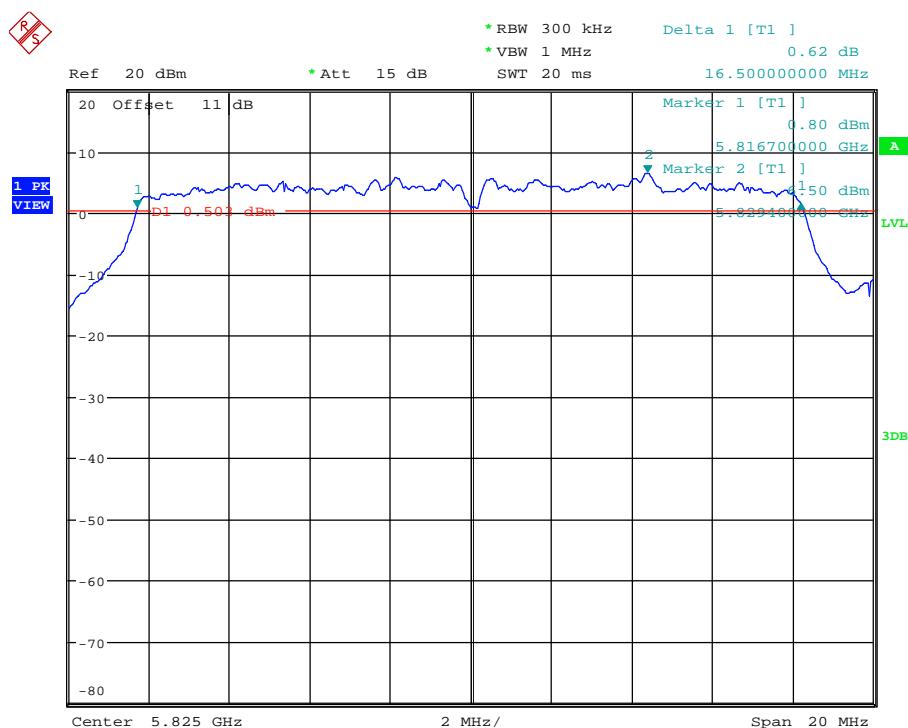
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11A CH157

Date: 3.OCT.2013 19:31:51



6DB BANDWIDTH 802.11A CH165

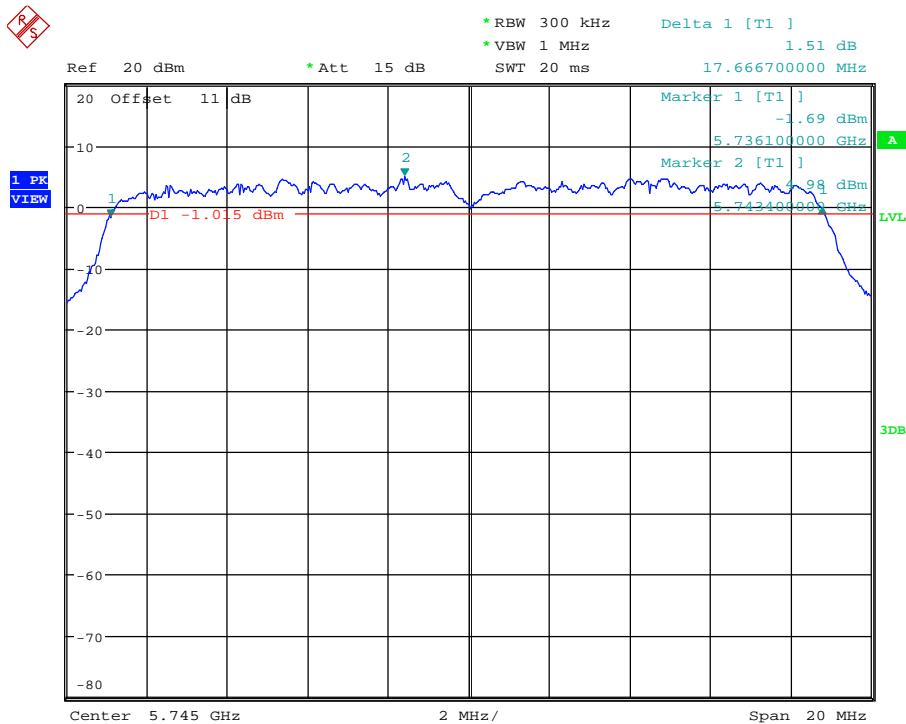
Date: 3.OCT.2013 19:38:32



# Worldwide Testing Services(Taiwan) Co., Ltd.

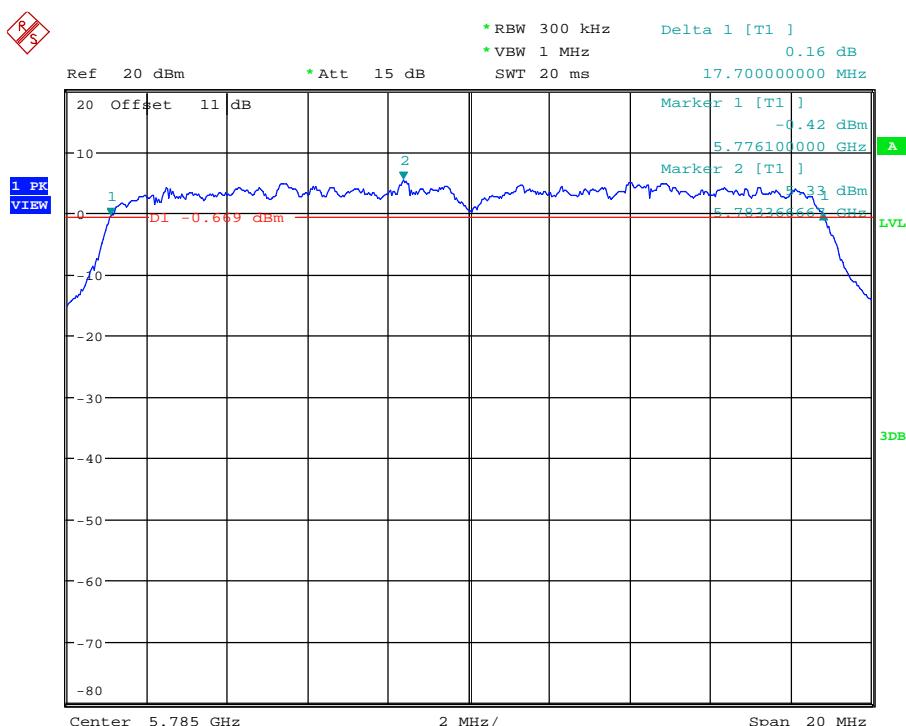
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11N 20MHZ CH149

Date: 3.OCT.2013 19:35:00



6DB BANDWIDTH 802.11N 20MHZ CH157

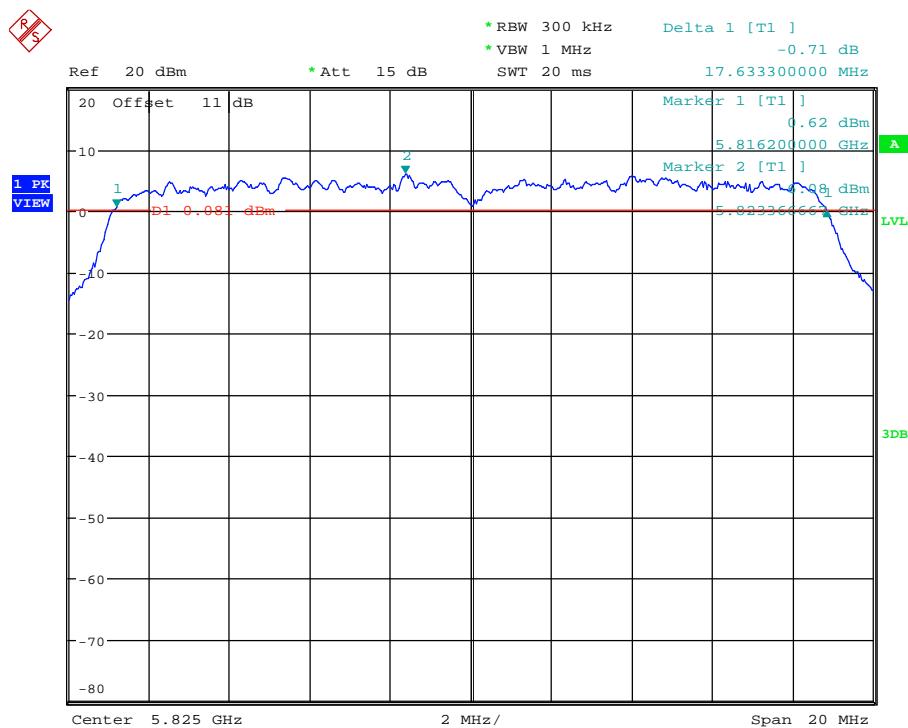
Date: 3.OCT.2013 19:35:56



# Worldwide Testing Services(Taiwan) Co., Ltd.

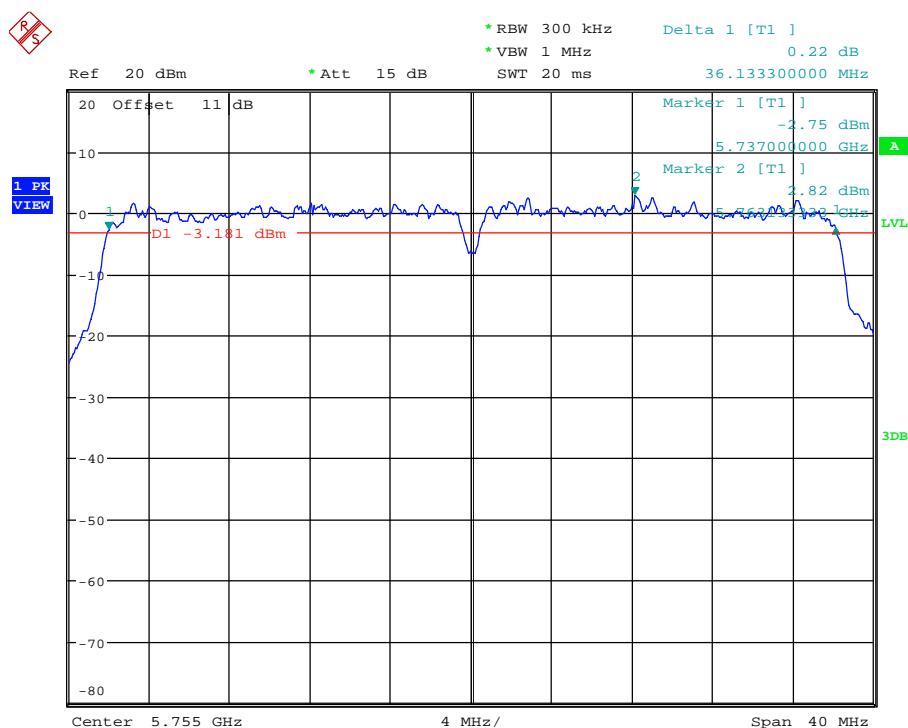
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11N 20MHZ CH165

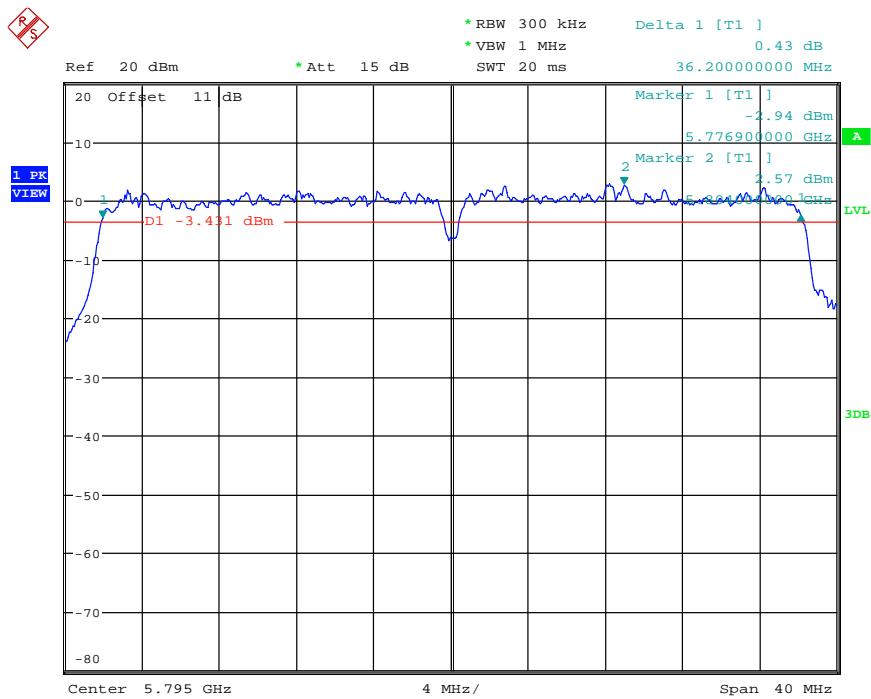
Date: 3.OCT.2013 19:37:15



6DB BANDWIDTH 802.11N 40MHZ CH151

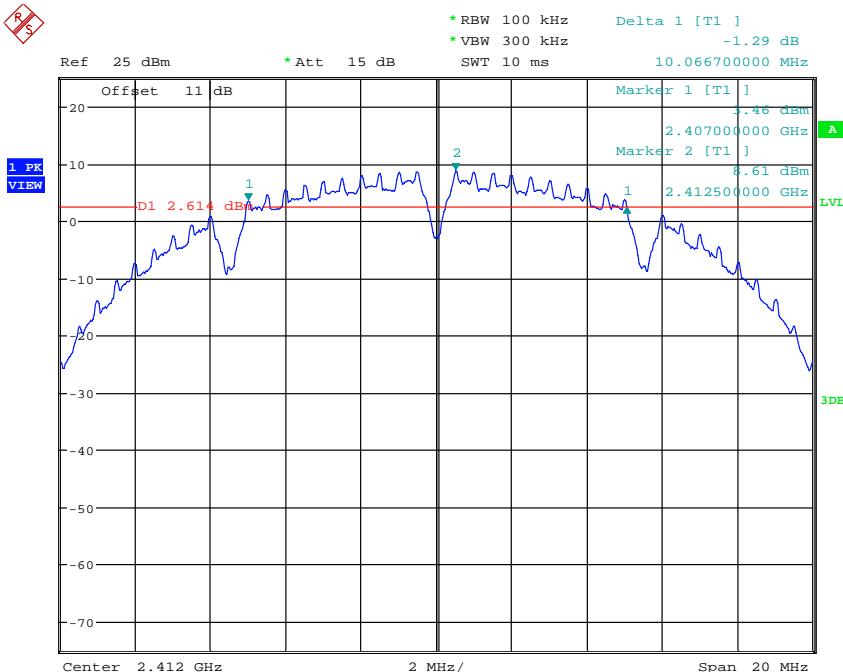
Date: 3.OCT.2013 19:40:54

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11N 40MHZ CH159  
Date: 3.OCT.2013 19:41:49

## ANT B (ANT 2) WLAN 2.4GHz

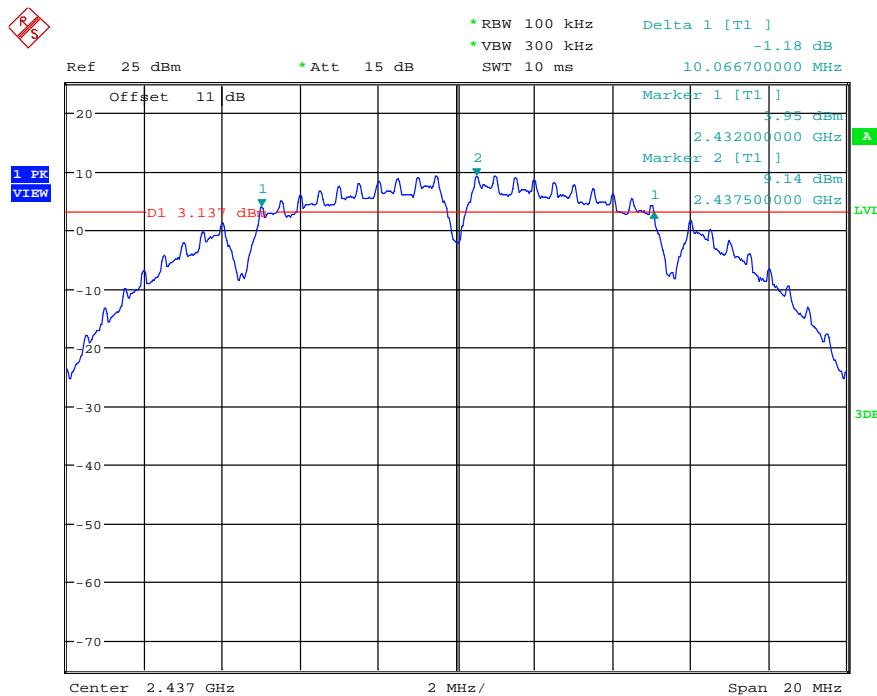


6DB BANDWIDTH 802.11B CH01  
Date: 3.OCT.2013 18:20:48

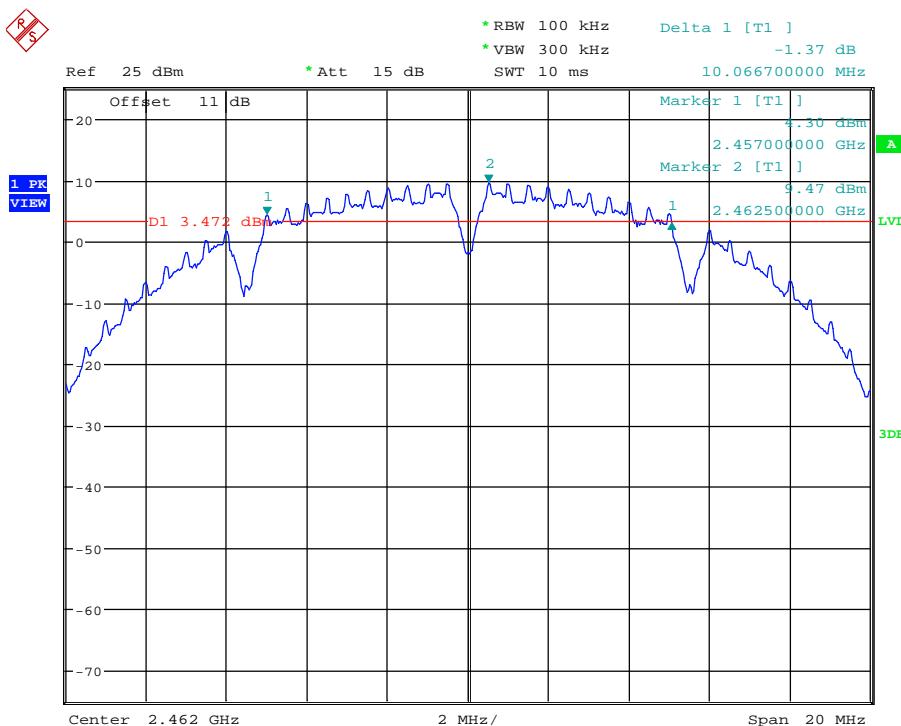


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11B CH06  
Date: 3.OCT.2013 18:22:18



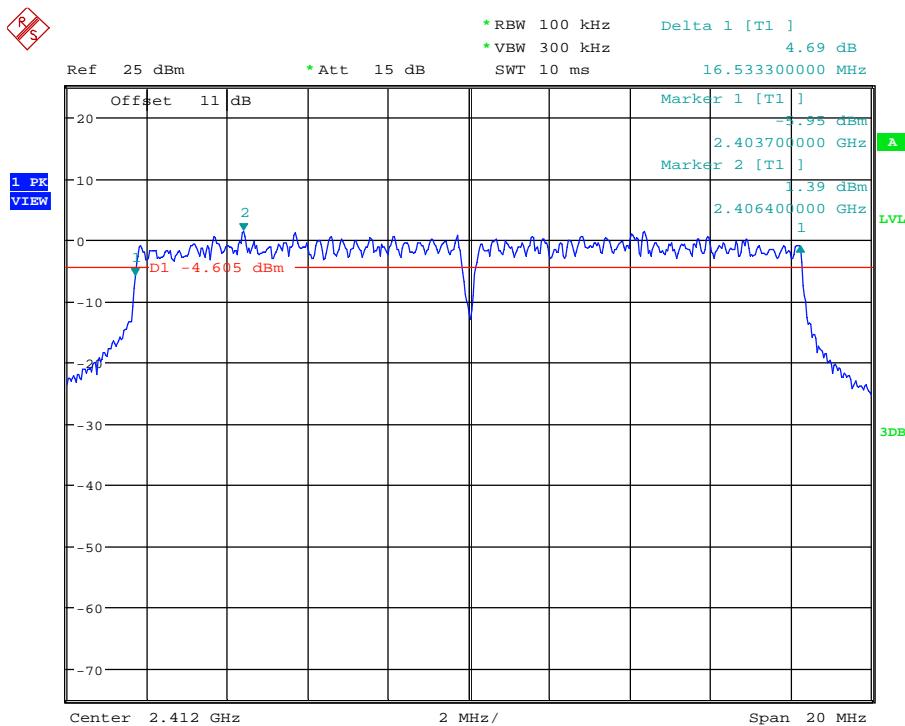
6DB BANDWIDTH 802.11B CH11  
Date: 3.OCT.2013 18:23:33



# Worldwide Testing Services(Taiwan) Co., Ltd.

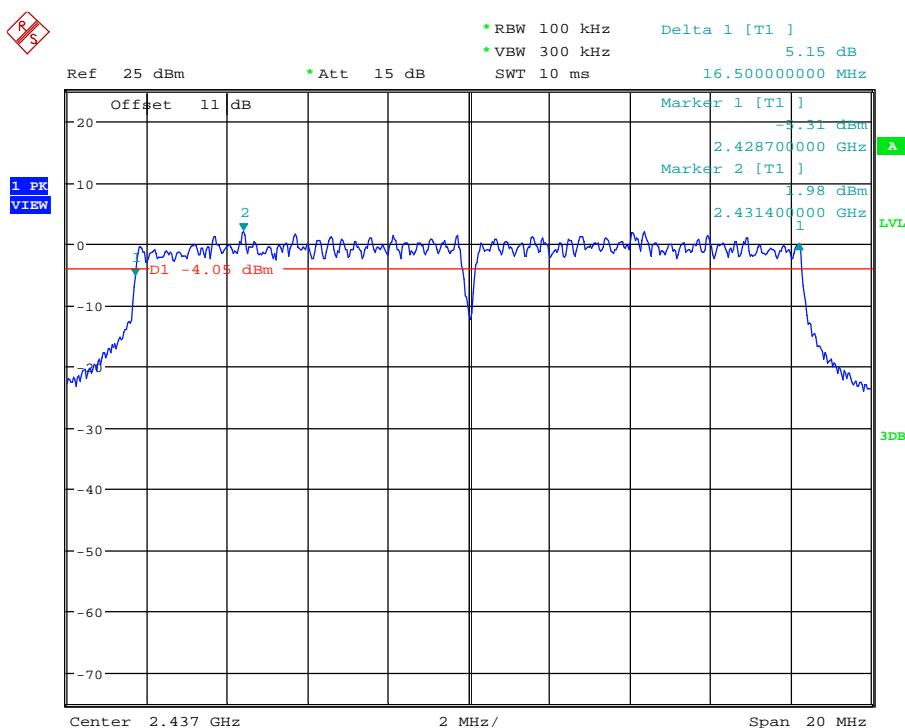
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11G CH01

Date: 3.OCT.2013 18:24:35



6DB BANDWIDTH 802.11G CH06

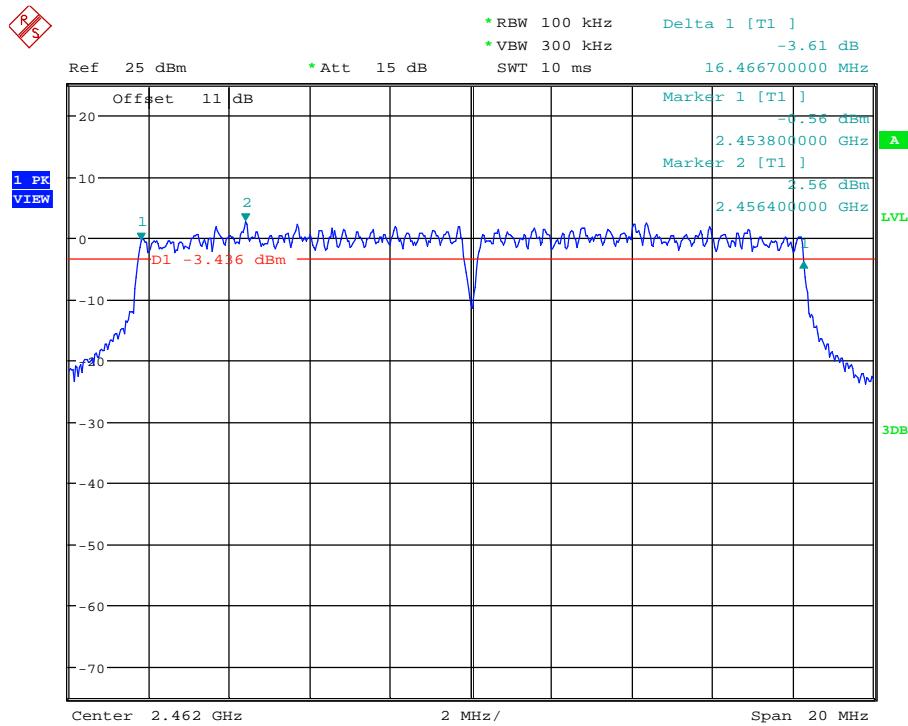
Date: 3.OCT.2013 18:25:24



# Worldwide Testing Services(Taiwan) Co., Ltd.

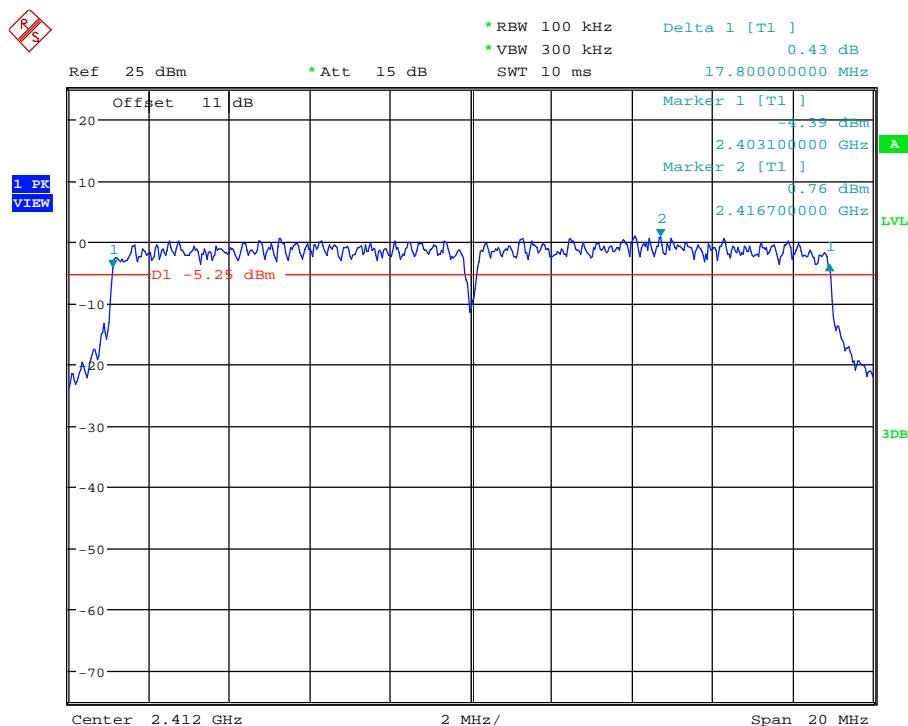
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FCC ID: 2AA4J-W6M2130813478



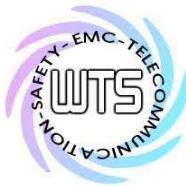
6DB BANDWIDTH 802.11G CH11

Date: 3.OCT.2013 18:26:24



6DB BANDWIDTH 802.11N 20MHz CH01

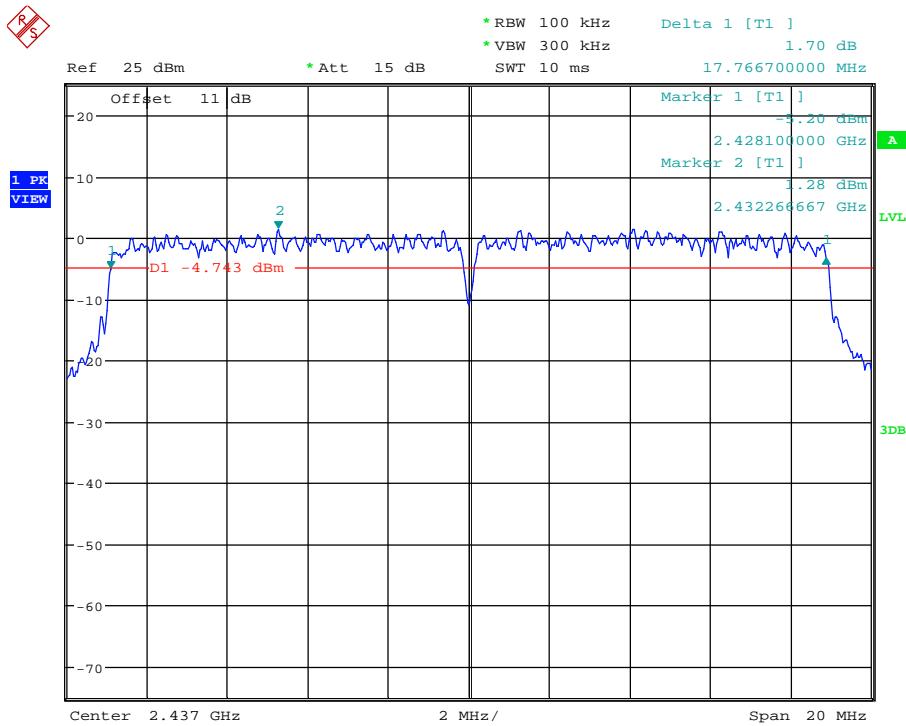
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# Worldwide Testing Services(Taiwan) Co., Ltd.

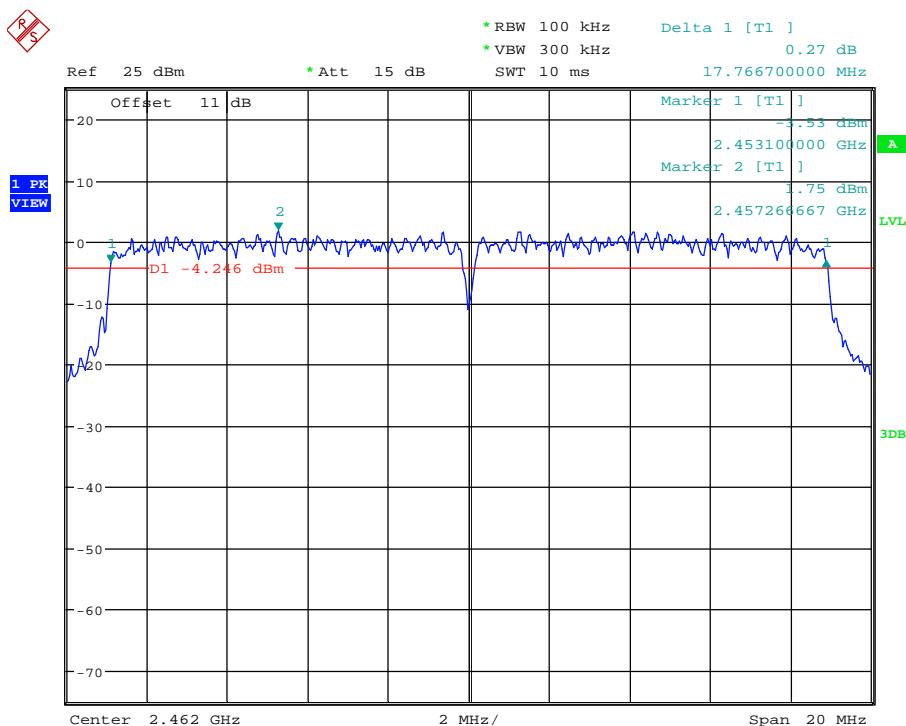
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11N 20MHZ CH06

Date: 3.OCT.2013 18:32:09



6DB BANDWIDTH 802.11N 20MHZ CH11

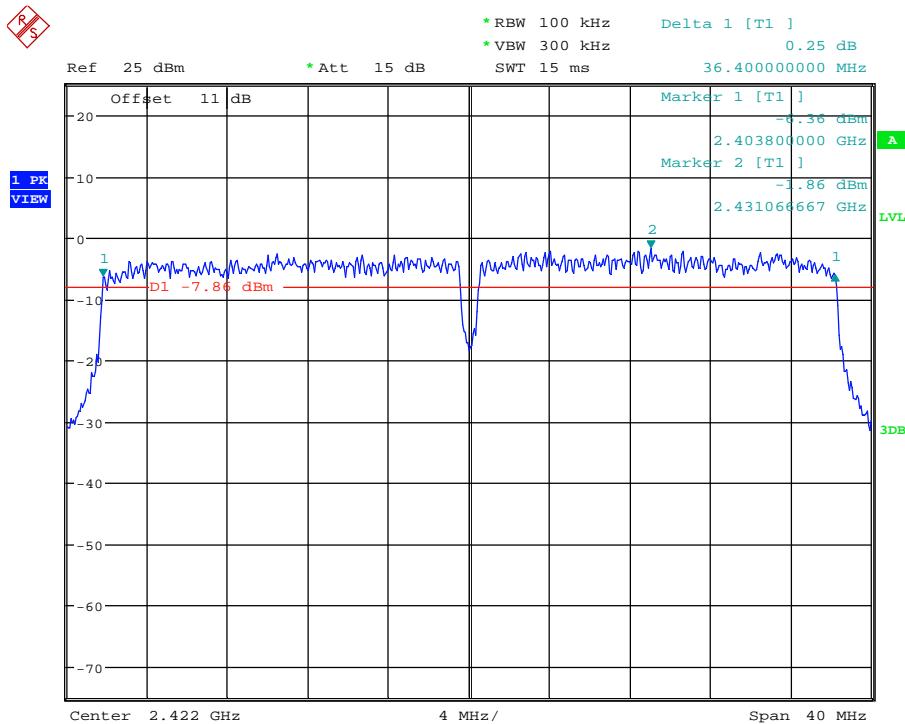
Date: 3.OCT.2013 18:33:33



# Worldwide Testing Services(Taiwan) Co., Ltd.

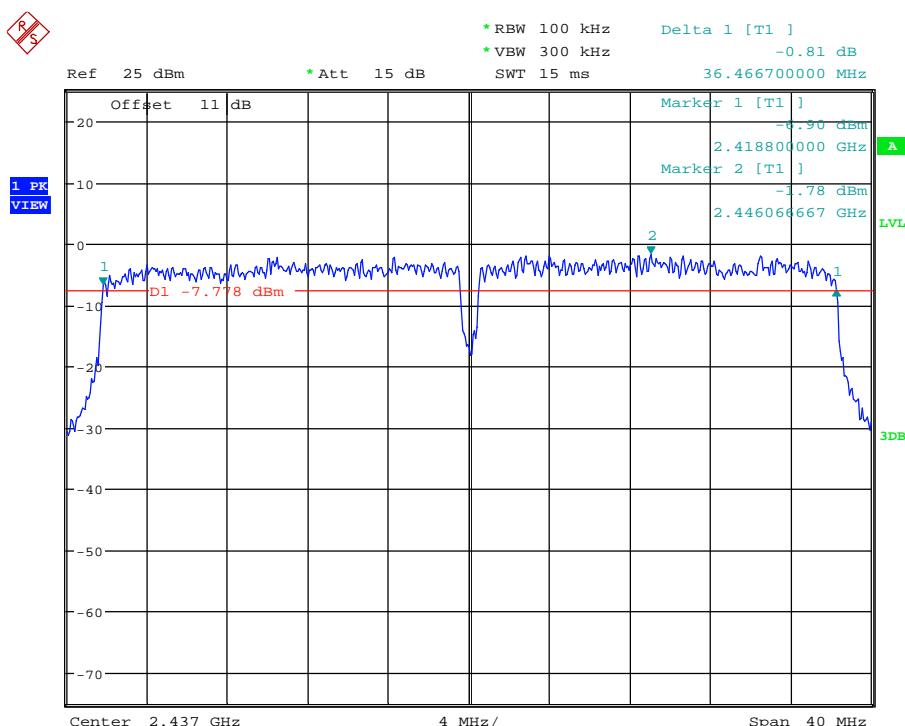
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



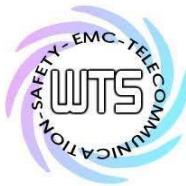
6DB BANDWIDTH 802.11N 40MHZ CH01

Date: 3.OCT.2013 18:35:16



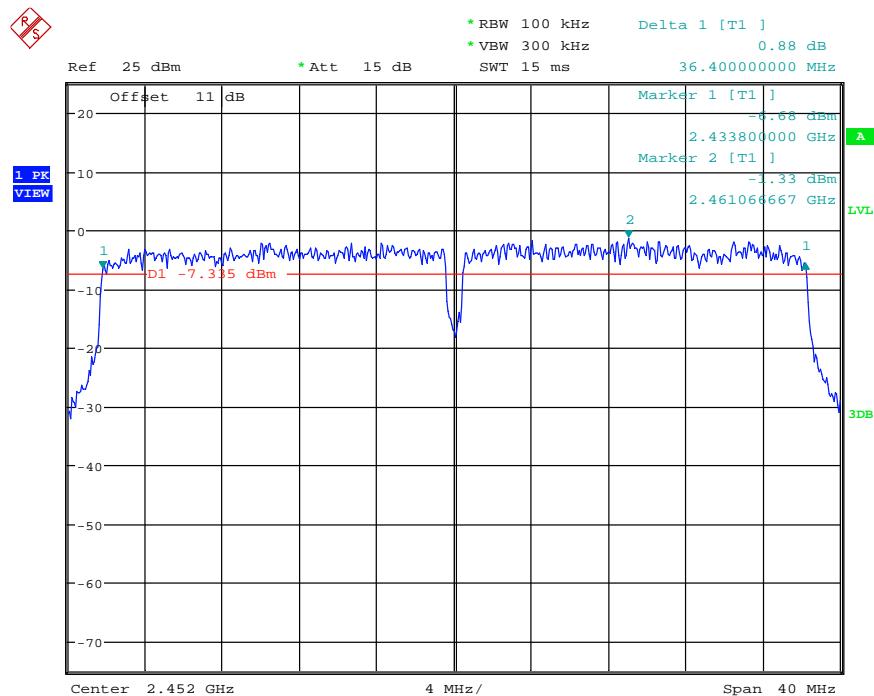
6DB BANDWIDTH 802.11N 40MHZ CH04

Date: 3.OCT.2013 18:36:16



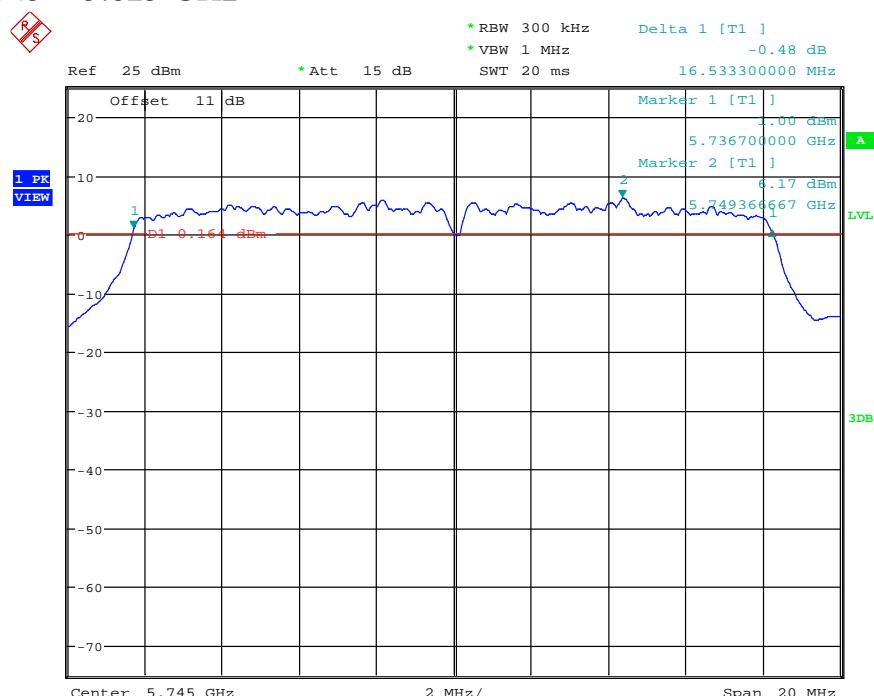
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

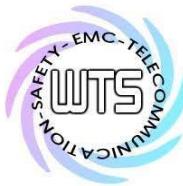


6DB BANDWIDTH 802.11N 40MHZ CH07  
Date: 3.OCT.2013 18:36:54

## WLAN 5.745 ~ 5.825 GHz

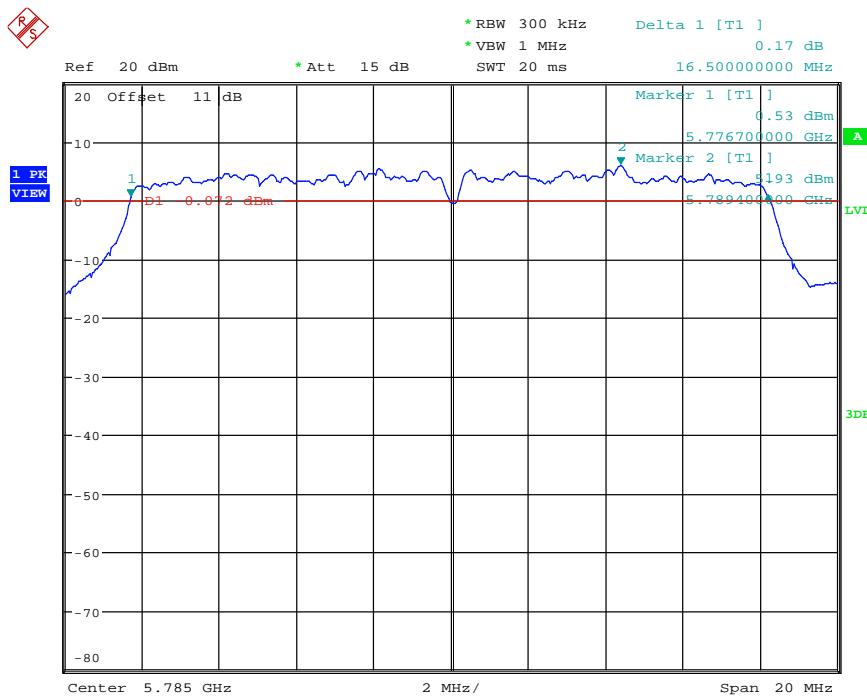


6DB BANDWIDTH 802.11A CH149  
Date: 3.OCT.2013 18:48:26

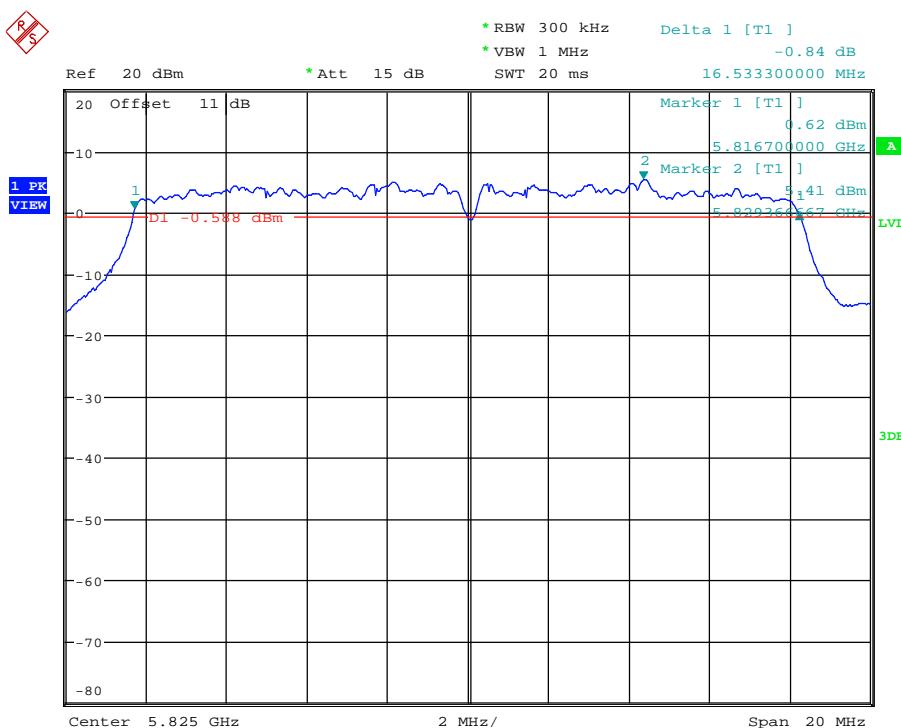


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



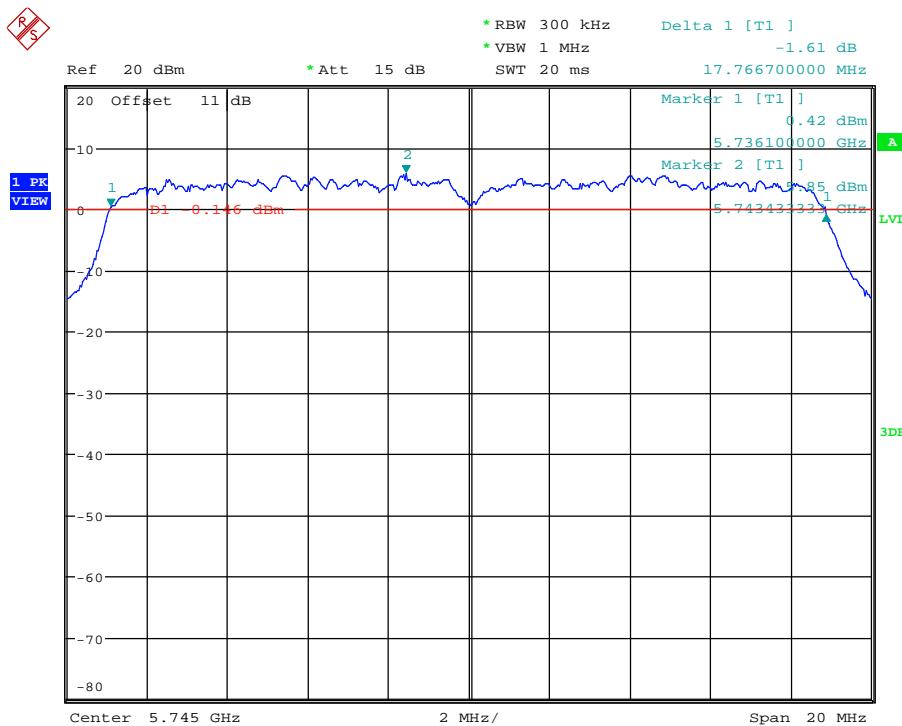
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Date: 3.OCT.2013 19:12:07



6DB BANDWIDTH 802.11A CH165  
Date: 3.OCT.2013 19:12:55

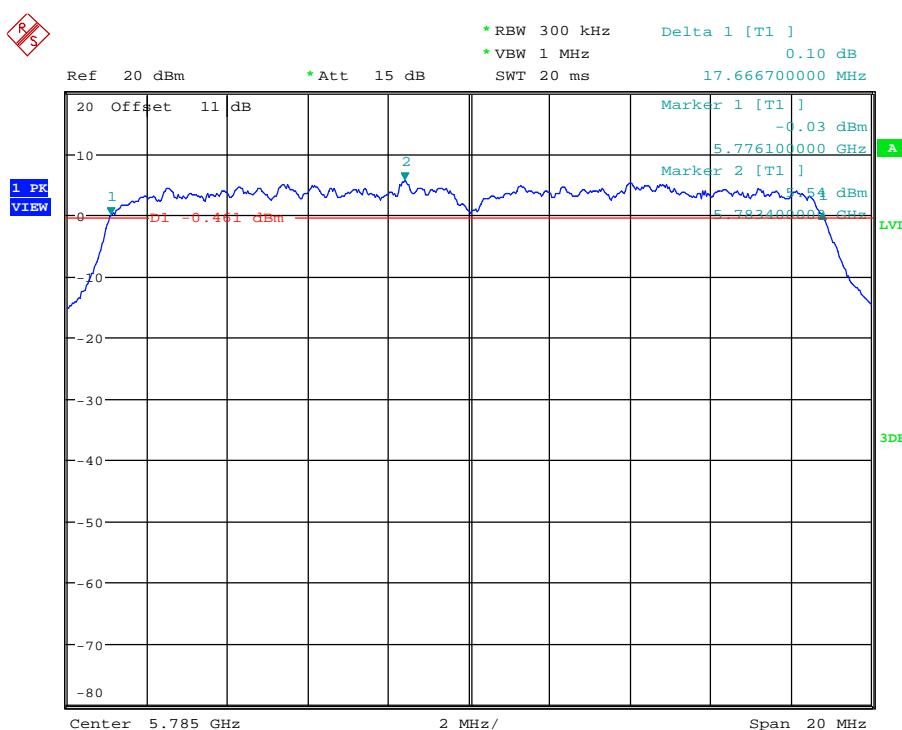
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11N 20MHZ CH149

Date: 3.OCT.2013 19:14:10

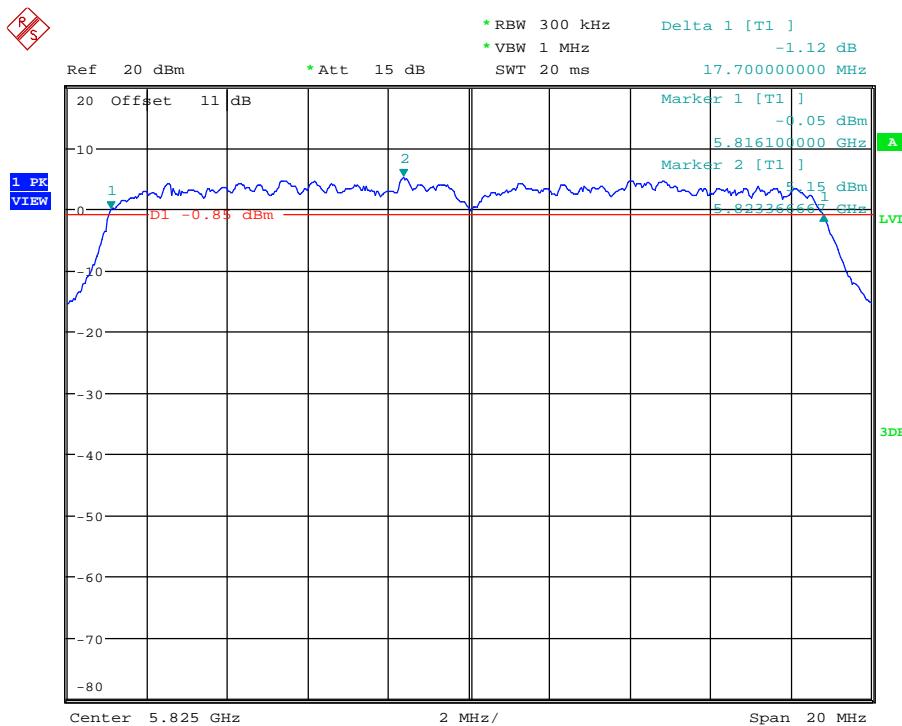


6DB BANDWIDTH 802.11N 20MHZ CH157

Date: 3.OCT.2013 19:15:02

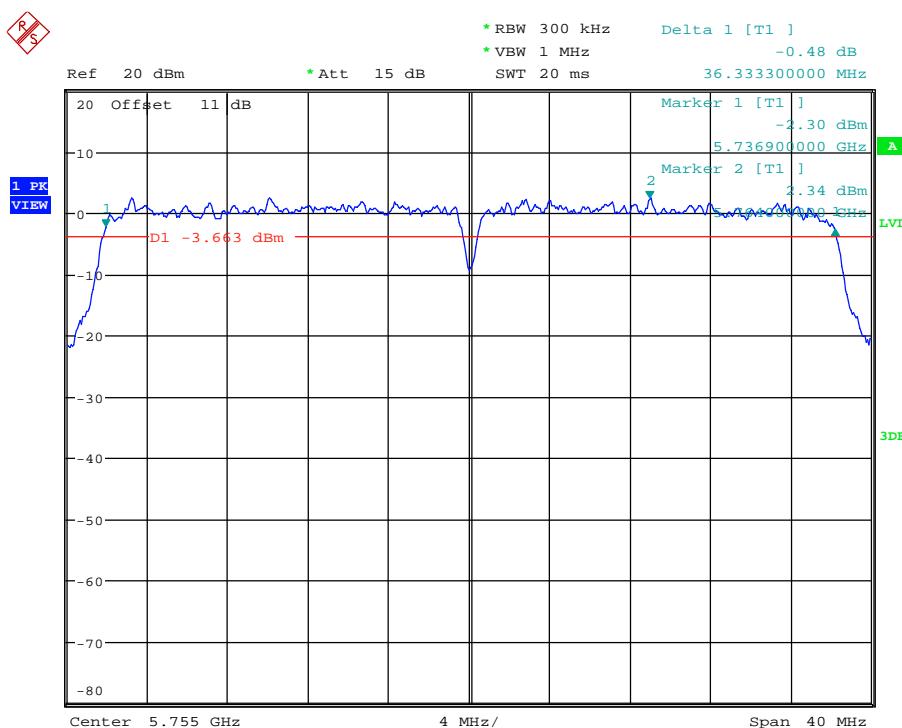
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11N 20MHZ CH165

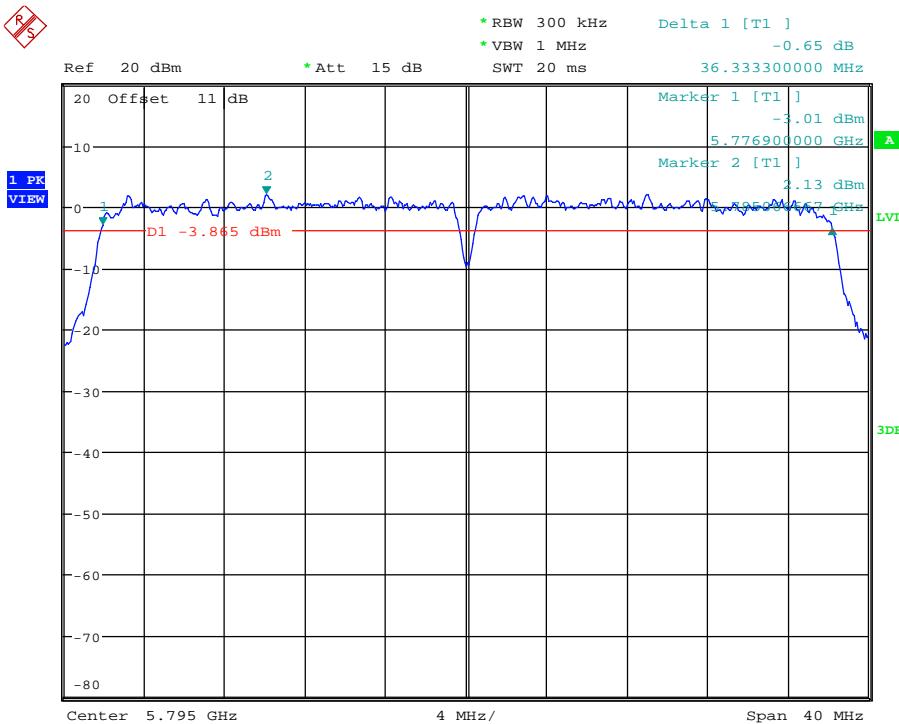
Date: 3.OCT.2013 19:17:02



6DB BANDWIDTH 802.11N 40MHZ CH151

Date: 3.OCT.2013 19:18:31

Registration number: W6M21308-13478-C-1  
 FCC ID: 2AA4J-W6M2130813478



6DB BANDWIDTH 802.11N 40MHZ CH159  
 Date: 3.OCT.2013 19:20:05

## 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 055, ETSTW-RE 050.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

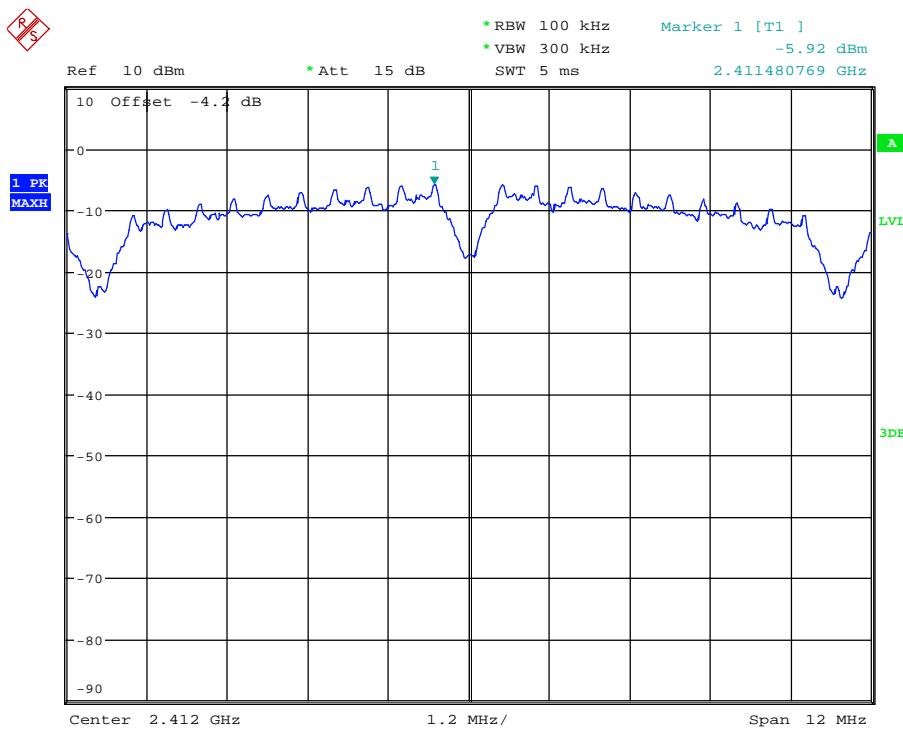
### 3.8 Peak Power Spectral Density

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.

## ANT A (ANT 1)

WLAN 2.4GHz



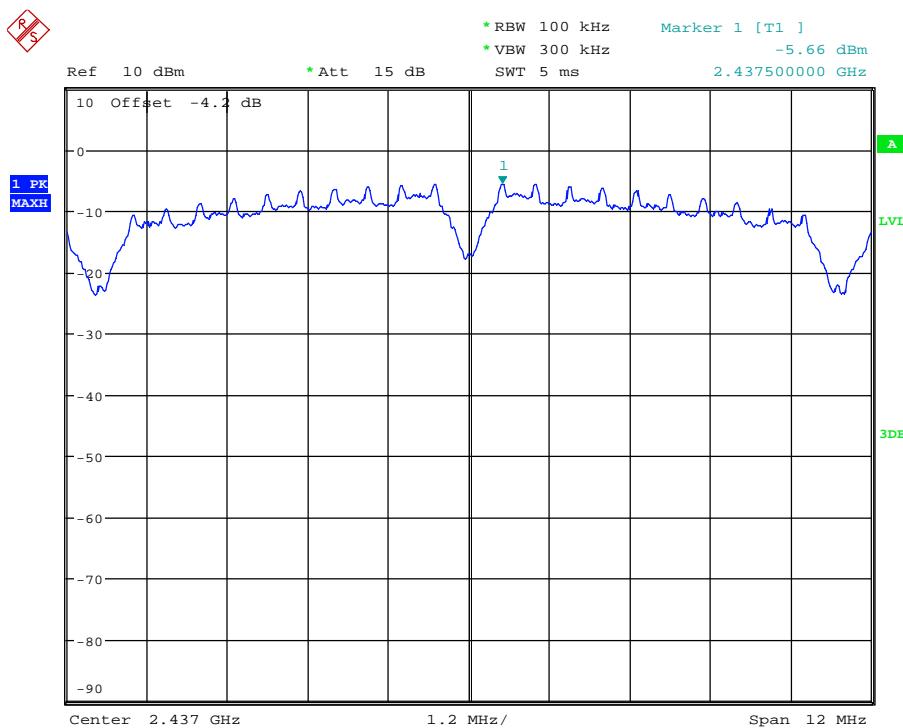
POWER DENSITY 802.11B CH01  
Date: 3.OCT.2013 18:01:29



# Worldwide Testing Services(Taiwan) Co., Ltd.

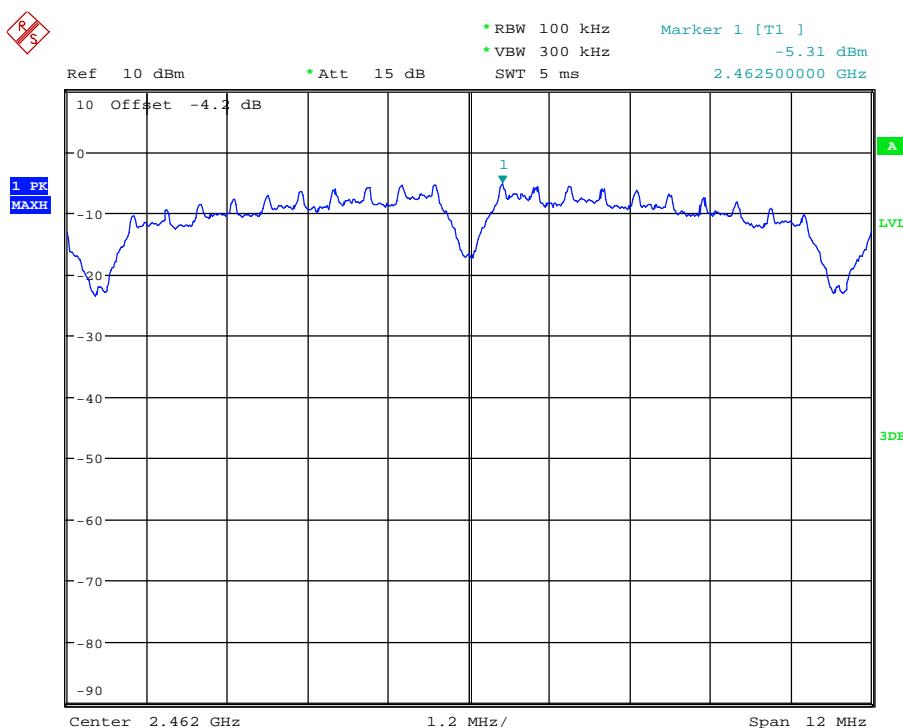
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



POWER DENSITY 802.11B CH06

Date: 3.OCT.2013 18:02:43



POWER DENSITY 802.11B CH11

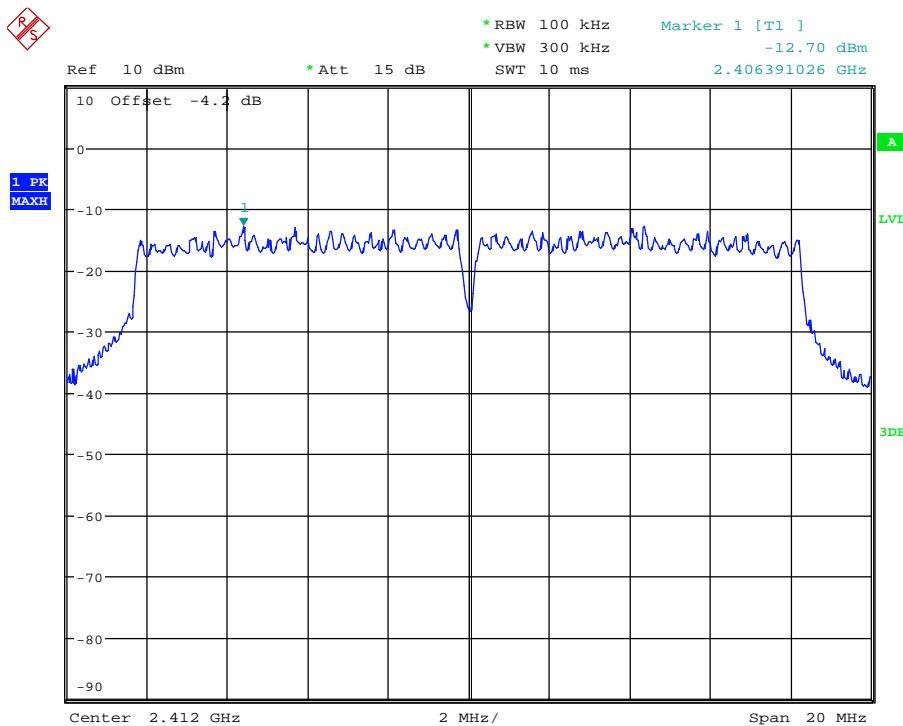
Date: 3.OCT.2013 18:03:30



# Worldwide Testing Services(Taiwan) Co., Ltd.

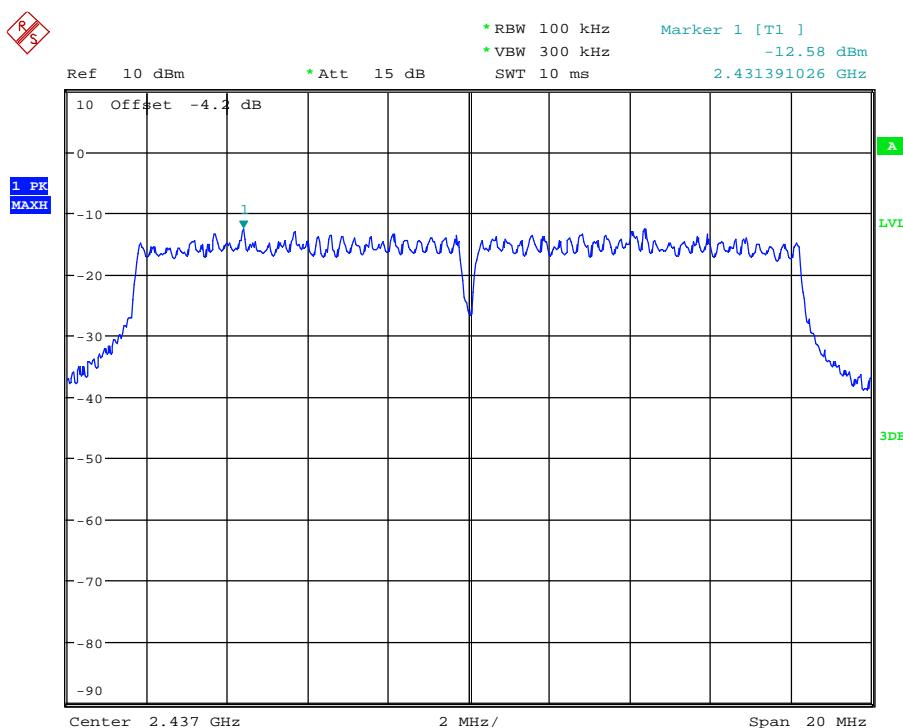
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



POWER DENSITY 802.11G CH01

Date: 3.OCT.2013 18:05:02



POWER DENSITY 802.11G CH06

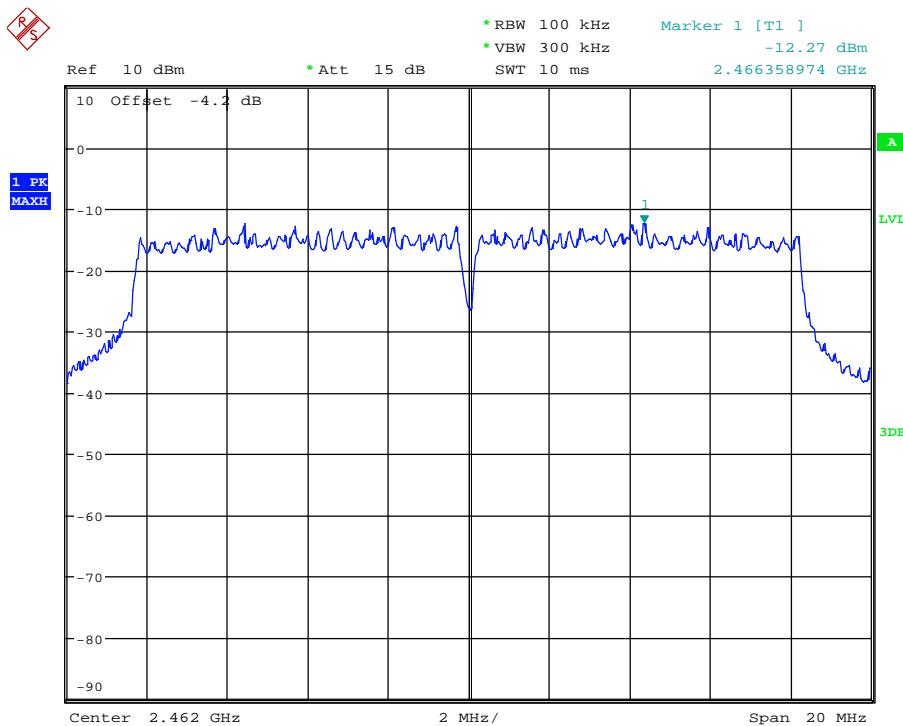
Date: 3.OCT.2013 18:05:50



# Worldwide Testing Services(Taiwan) Co., Ltd.

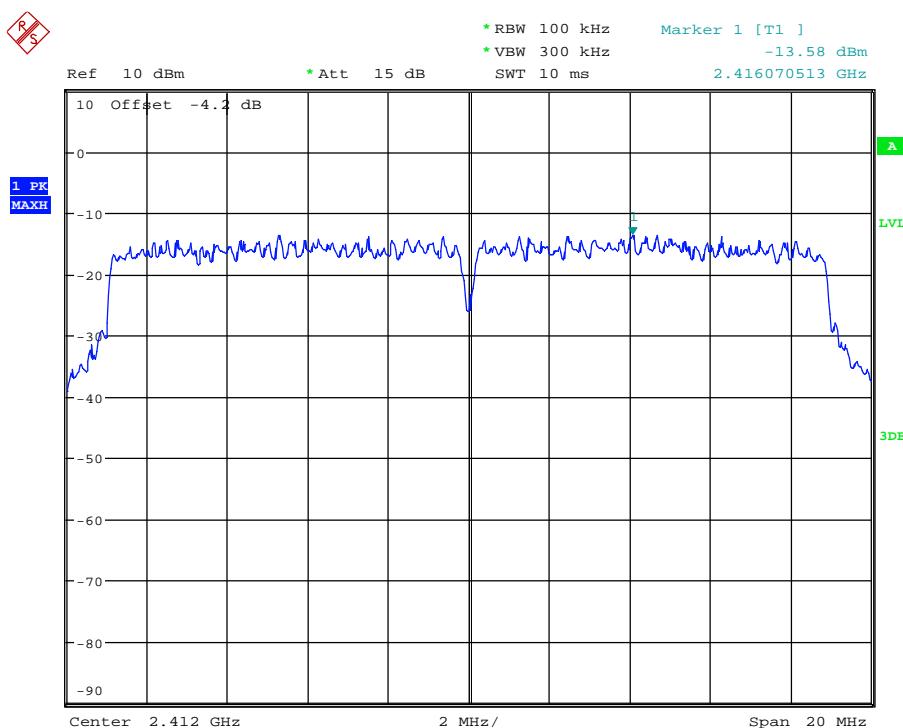
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



POWER DENSITY 802.11G CH11

Date: 3.OCT.2013 18:07:04



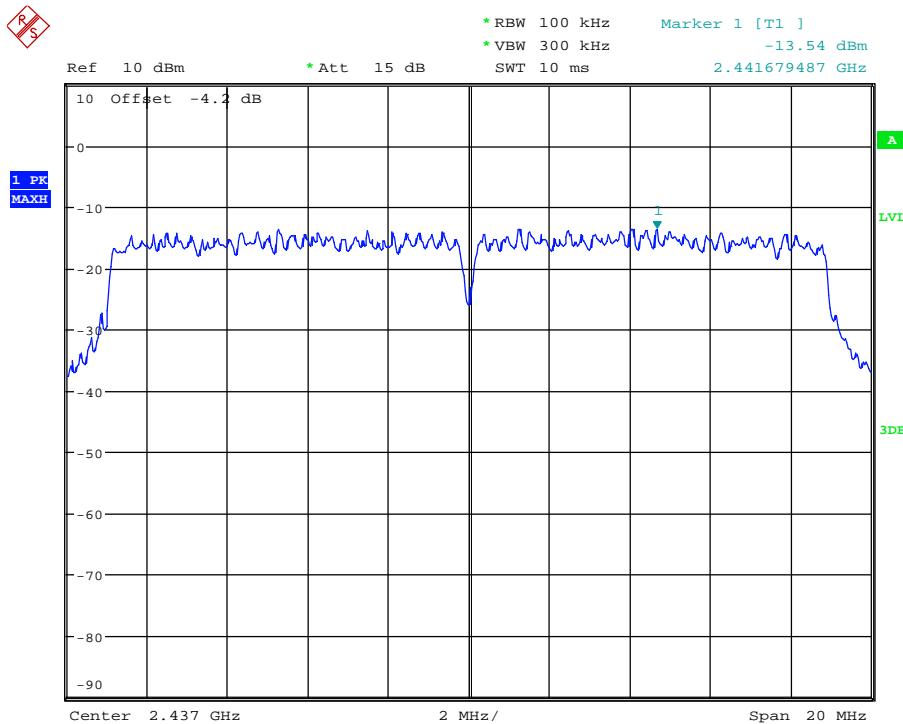
POWER DENSITY 802.11N 20MHZ CH01

Date: 3.OCT.2013 18:09:35

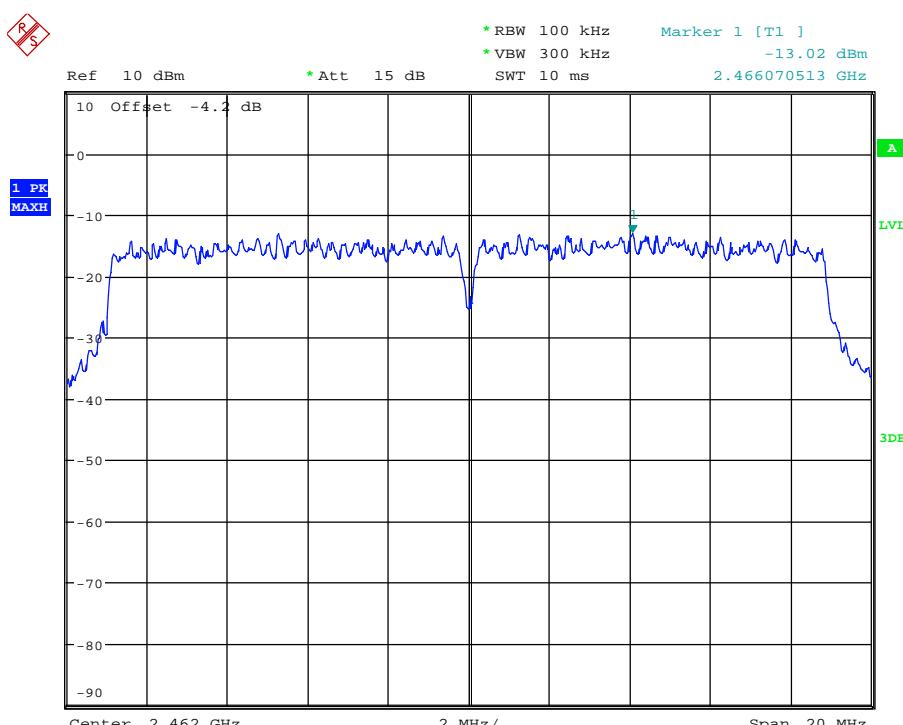


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



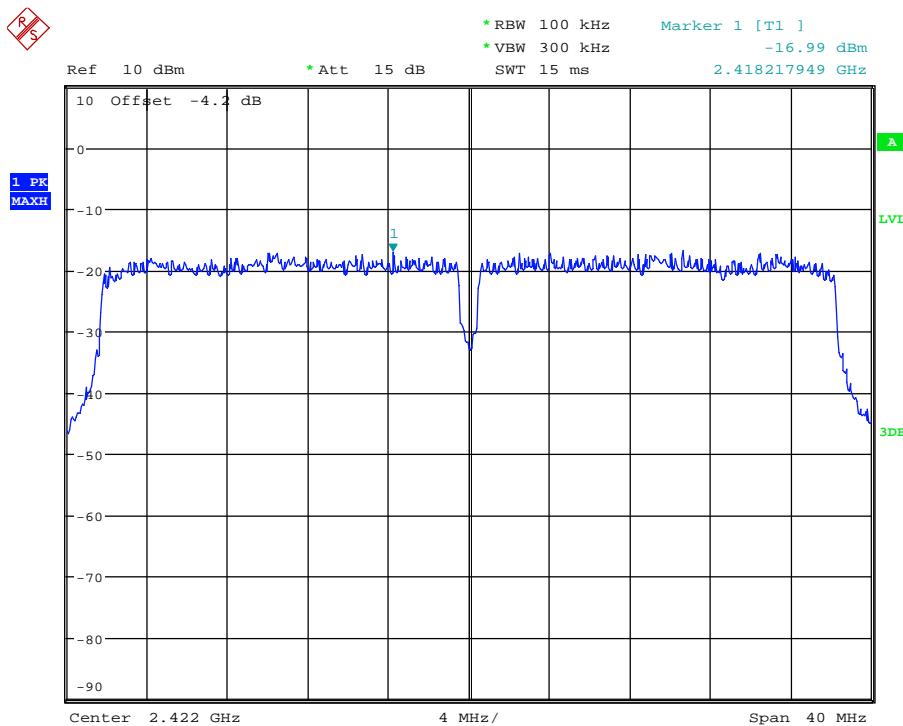
POWER DENSITY 802.11N 20MHZ CH06  
Date: 3.OCT.2013 18:10:23



POWER DENSITY 802.11N 20MHZ CH11  
Date: 3.OCT.2013 18:11:04

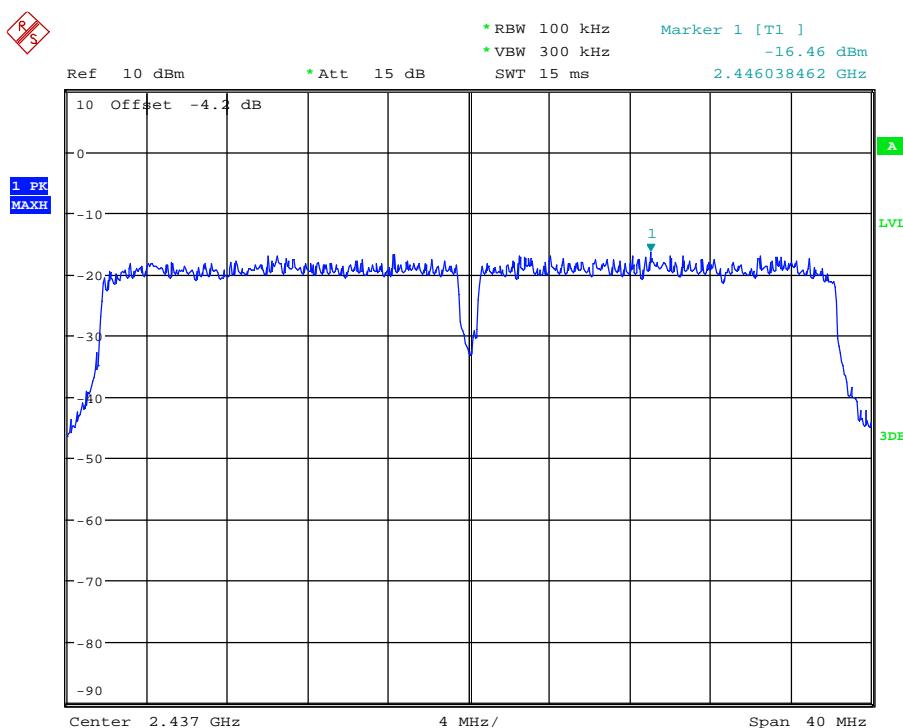
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



POWER DENSITY 802.11N 40MHZ CH01

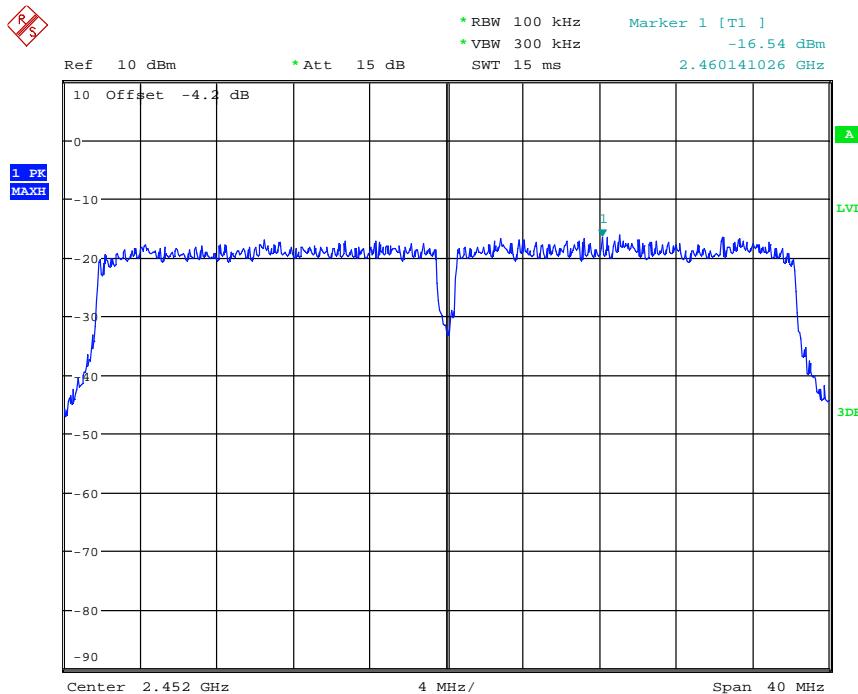
Date: 3.OCT.2013 18:12:48



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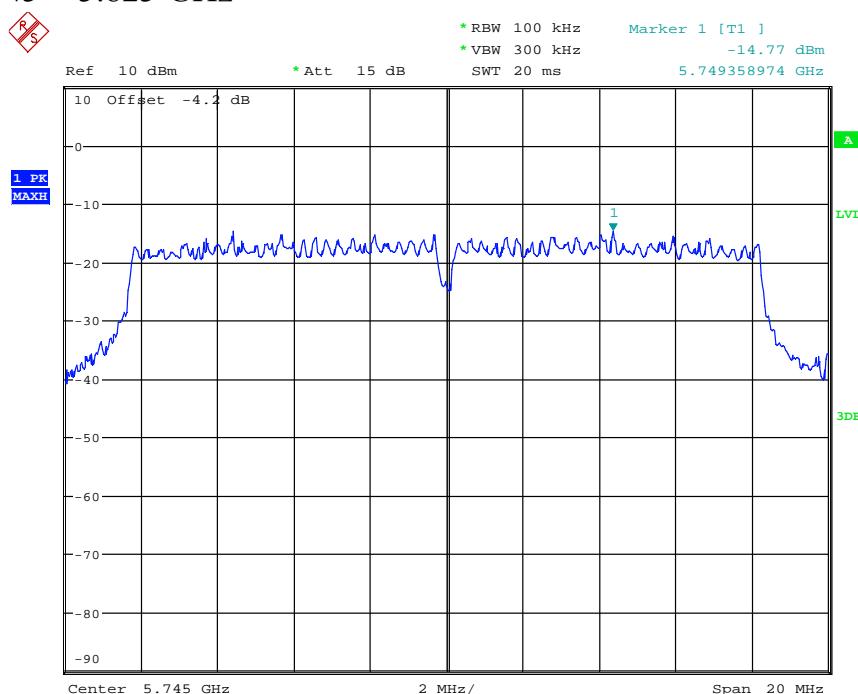
Date: 3.OCT.2013 18:13:50

Registration number: W6M21308-13478-C-1  
 FCC ID: 2AA4J-W6M2130813478



POWER DENSITY 802.11N 40MHZ CH07  
 Date: 3.OCT.2013 18:14:37

## WLAN 5.745 ~ 5.825 GHz



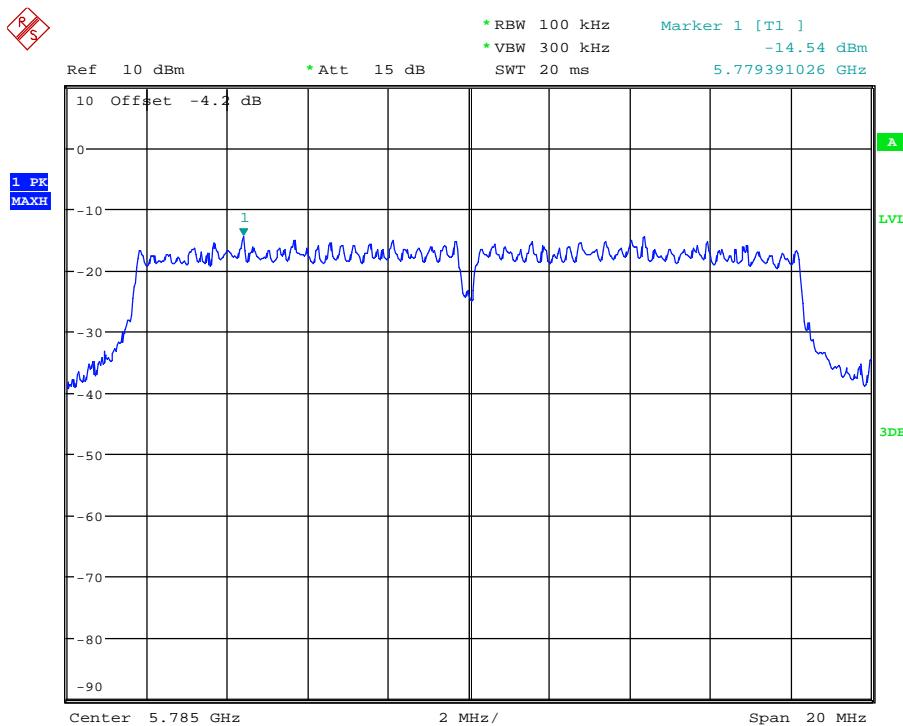
POWER DENSITY 802.11A CH149  
 Date: 3.OCT.2013 19:30:59



# Worldwide Testing Services(Taiwan) Co., Ltd.

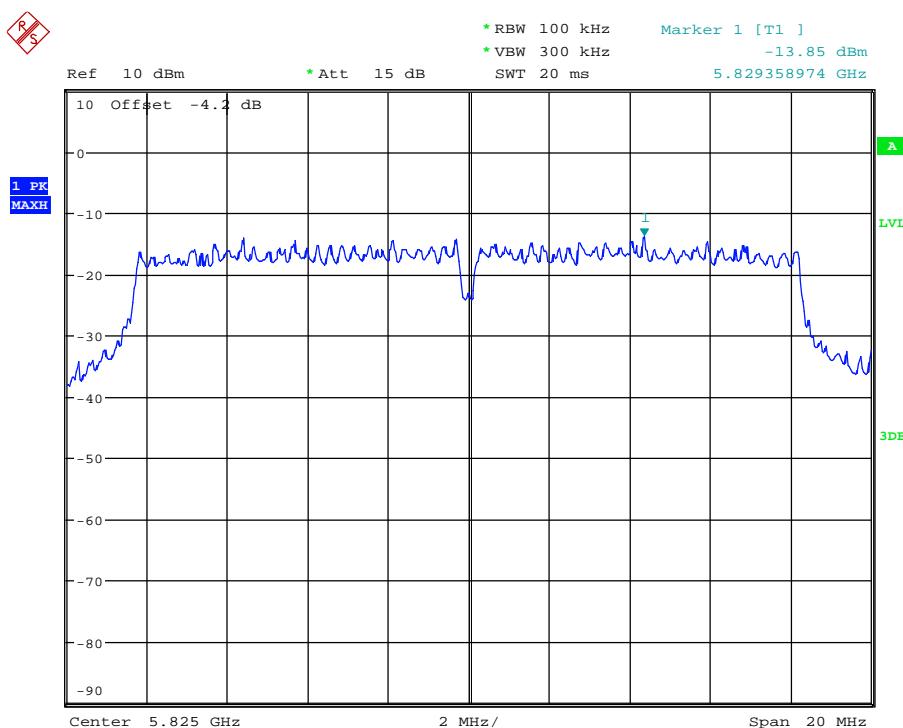
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



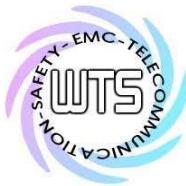
POWER DENSITY 802.11A CH157

Date: 3.OCT.2013 19:31:58



POWER DENSITY 802.11A CH165

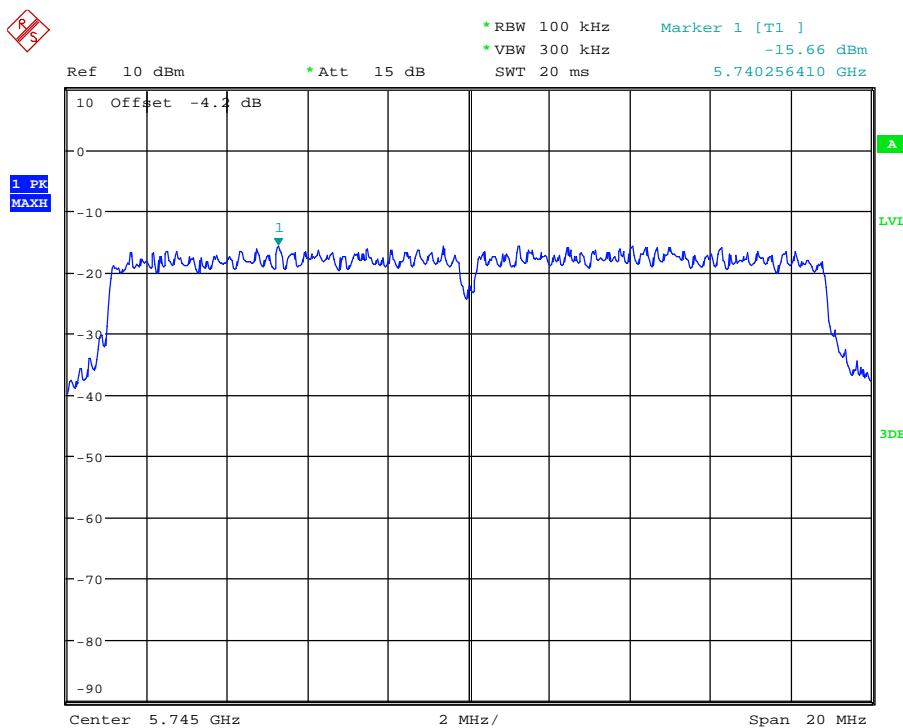
Date: 3.OCT.2013 19:38:39



# Worldwide Testing Services(Taiwan) Co., Ltd.

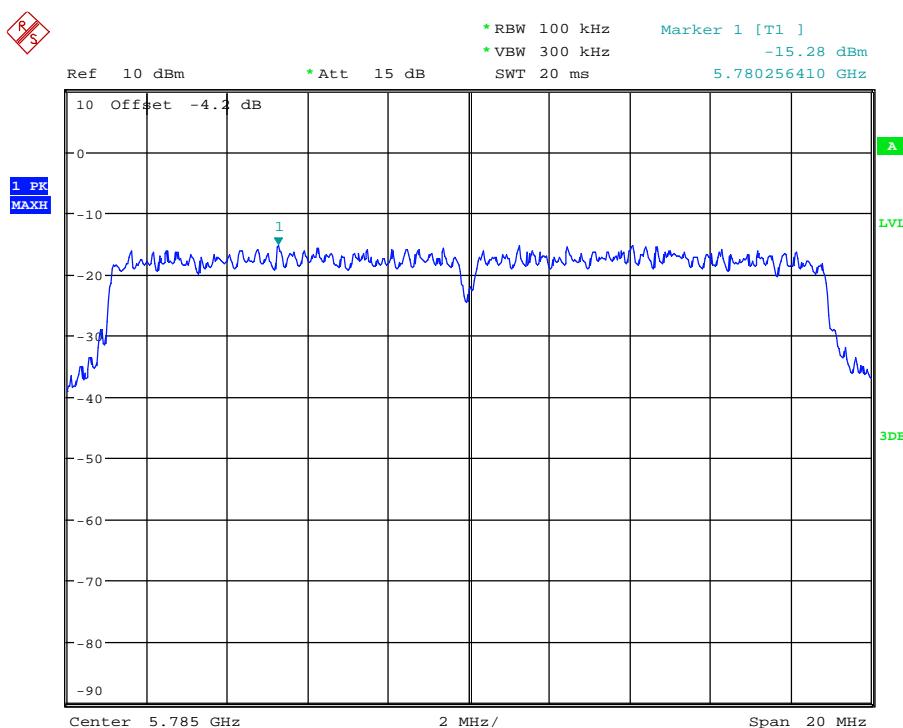
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



POWER DENSITY 802.11N 20MHZ CH149

Date: 3.OCT.2013 19:35:07



POWER DENSITY 802.11N 20MHZ CH157

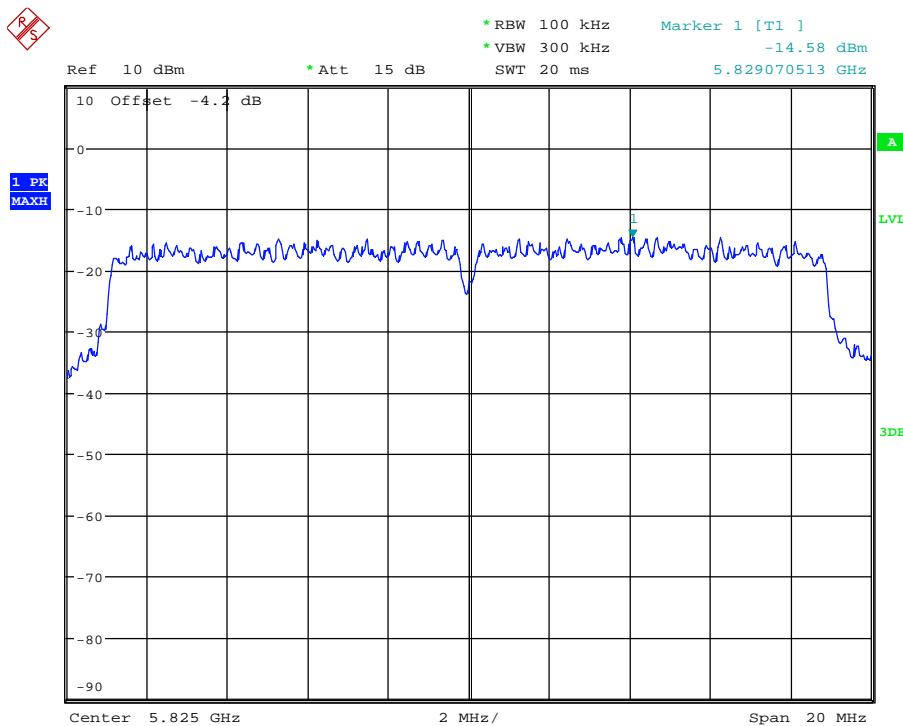
Date: 3.OCT.2013 19:36:03



# Worldwide Testing Services(Taiwan) Co., Ltd.

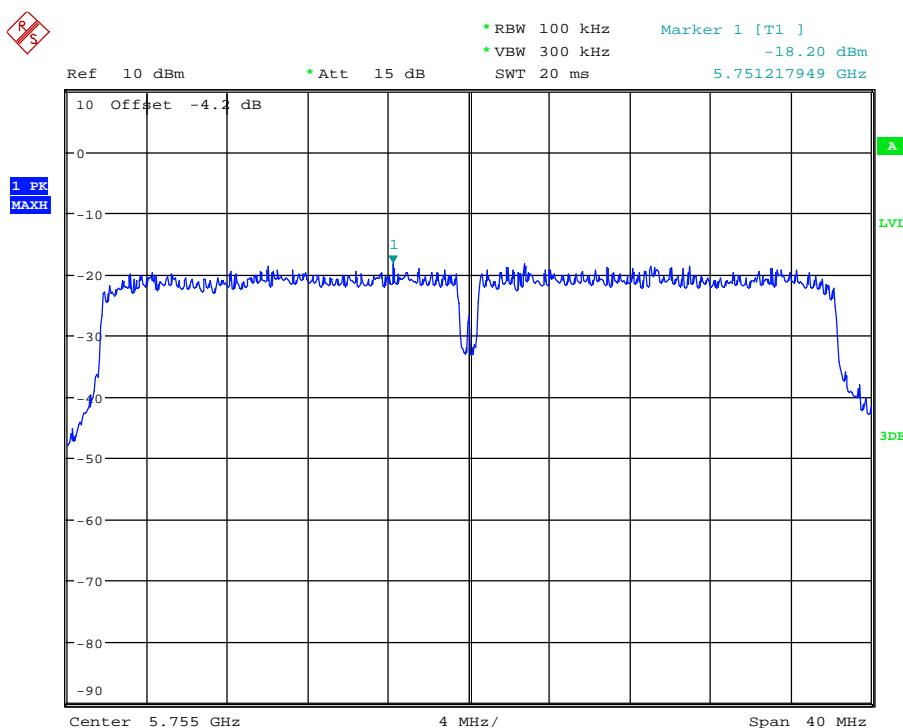
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



POWER DENSITY 802.11N 20MHZ CH165

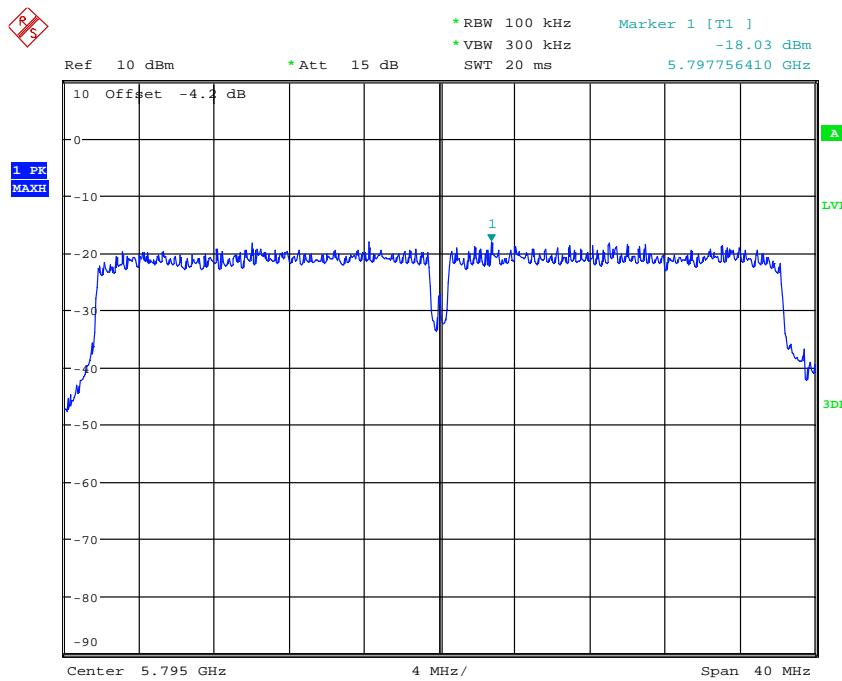
Date: 3.OCT.2013 19:37:22



POWER DENSITY 802.11N 40MHZ CH151

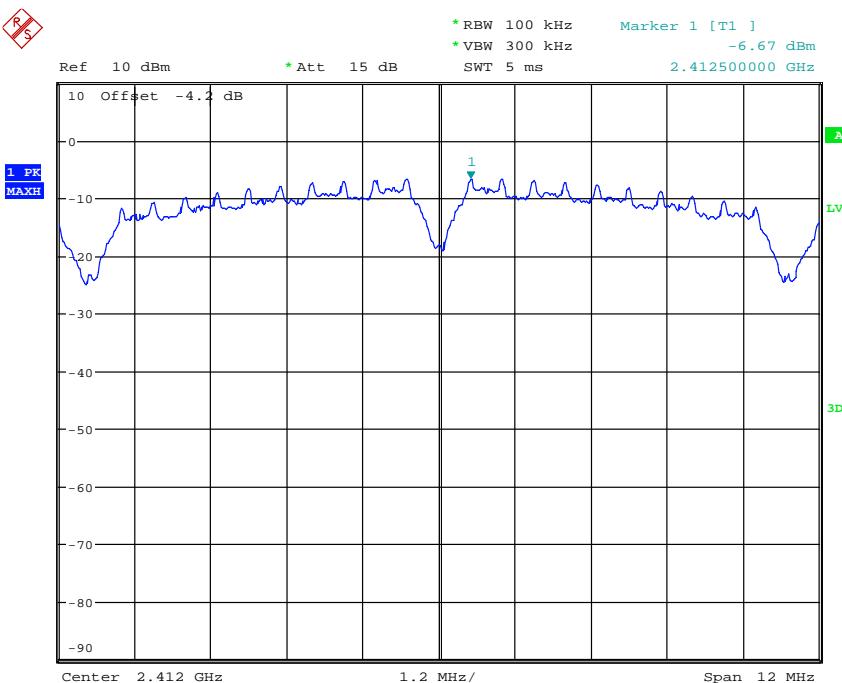
Date: 3.OCT.2013 19:41:01

Registration number: W6M21308-13478-C-1  
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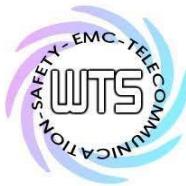


POWER DENSITY 802.11N 40MHZ CH159  
 Date: 3.OCT.2013 19:41:55

## ANT B (ANT 2) WLAN 2.4GHz

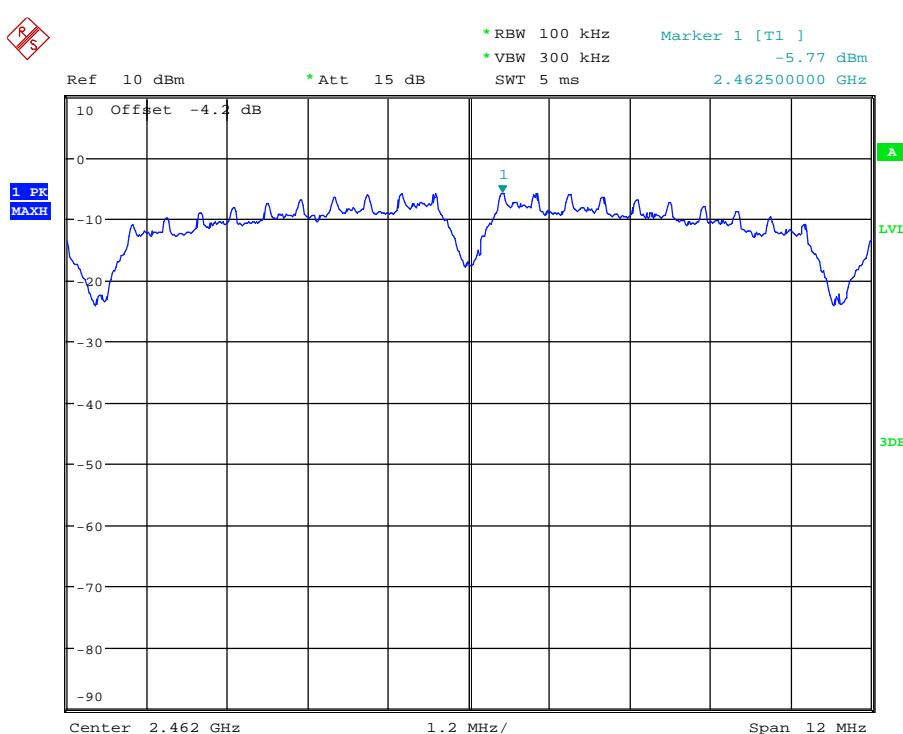
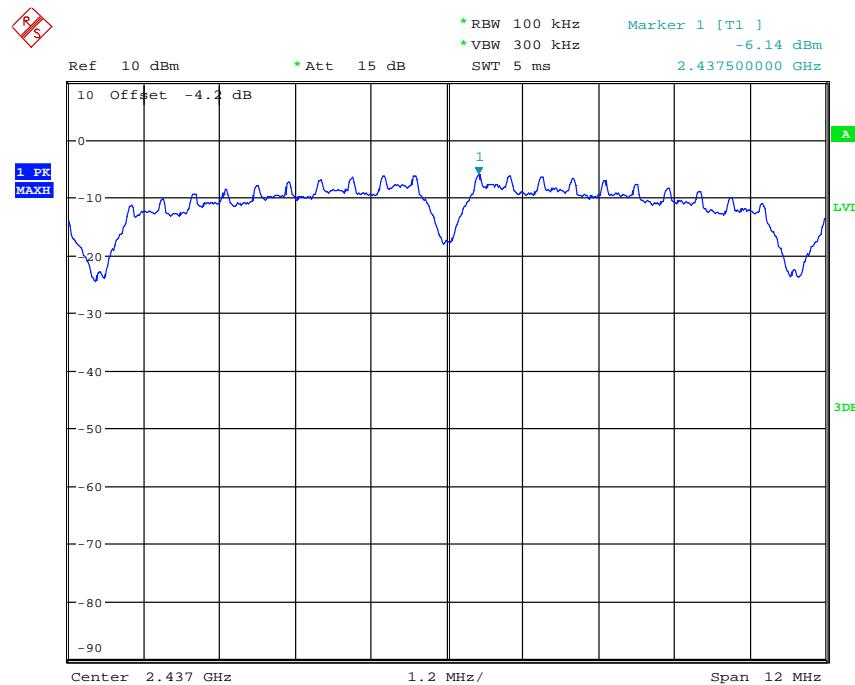


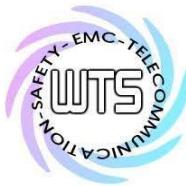
POWER DENSITY 802.11B CH01  
 Date: 3.OCT.2013 18:20:55



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

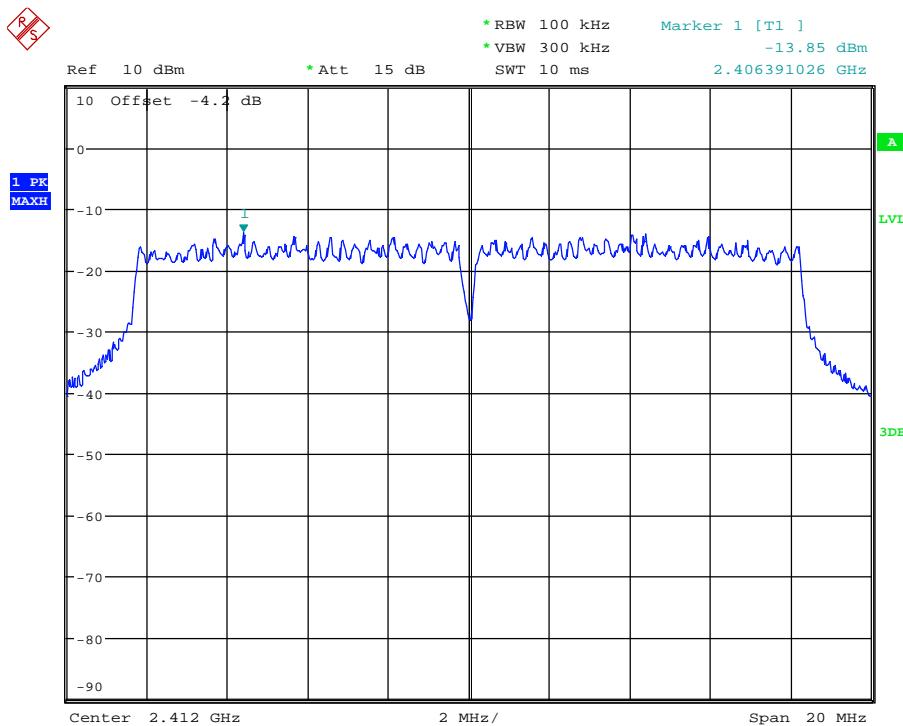




# Worldwide Testing Services(Taiwan) Co., Ltd.

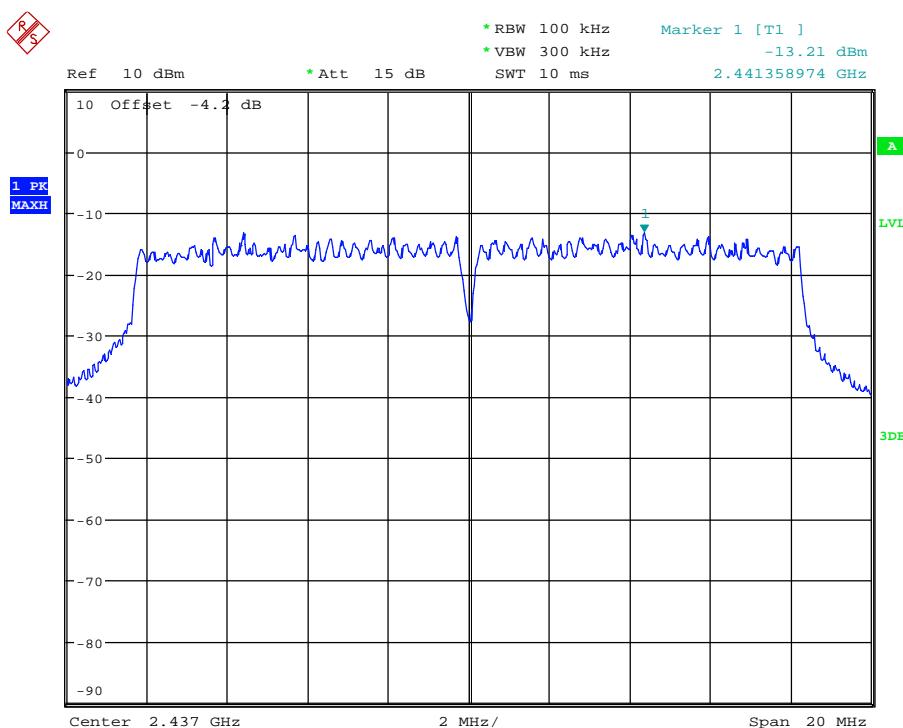
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



POWER DENSITY 802.11G CH01

Date: 3.OCT.2013 18:24:42



POWER DENSITY 802.11G CH06

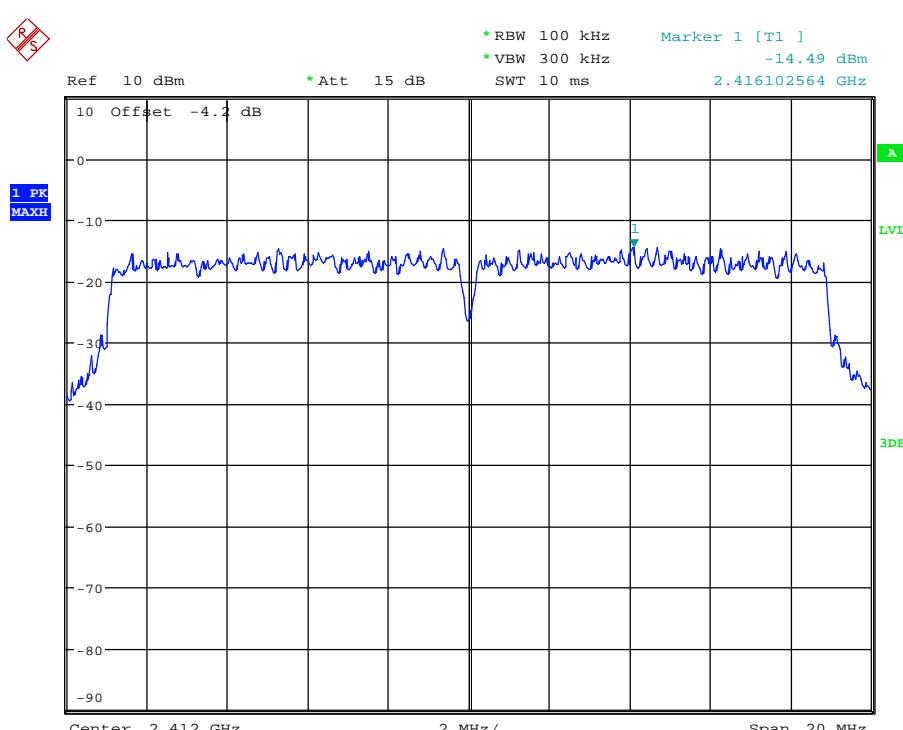
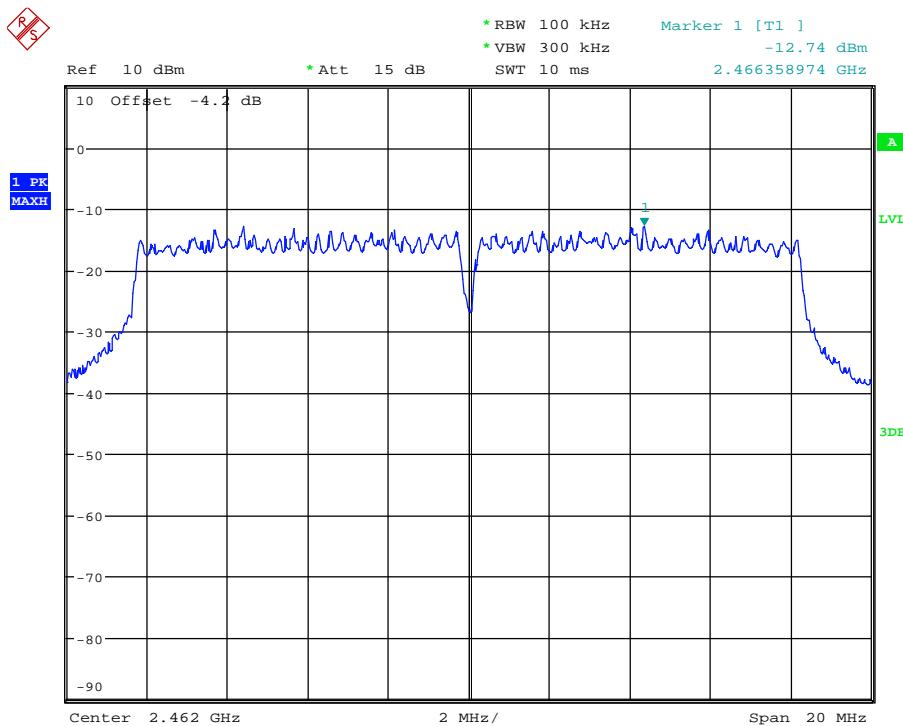
Date: 3.OCT.2013 18:25:31

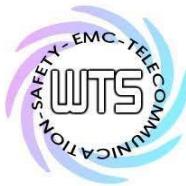


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

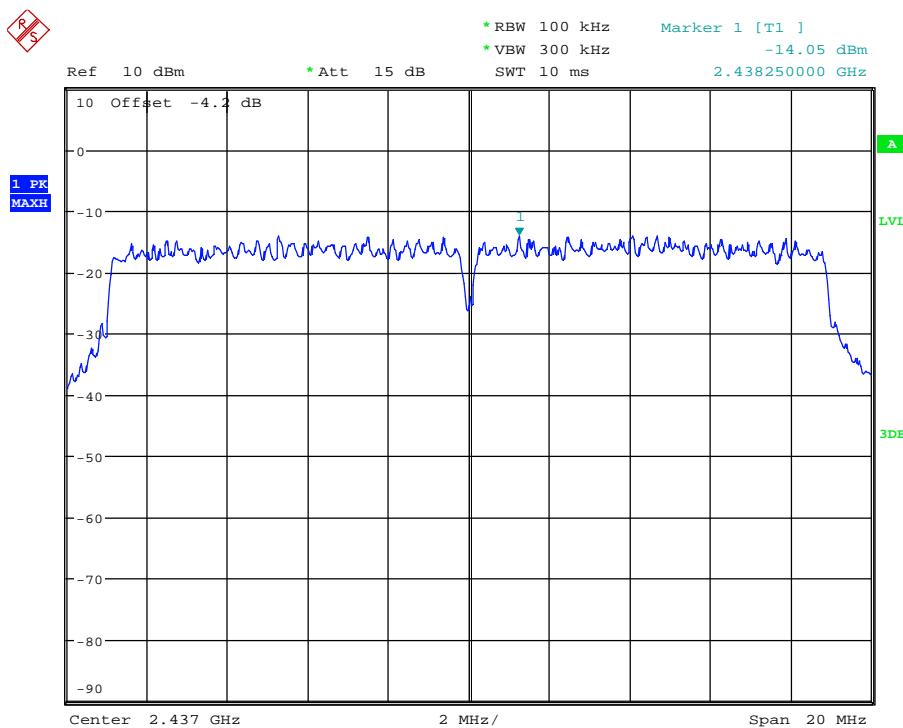




# Worldwide Testing Services(Taiwan) Co., Ltd.

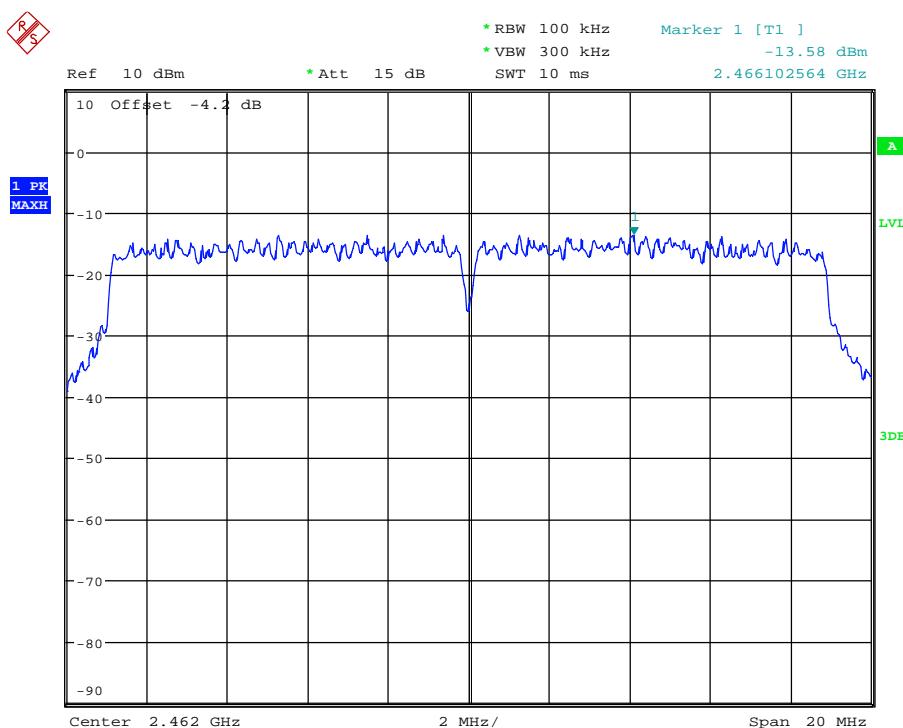
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



POWER DENSITY 802.11N 20MHZ CH06

Date: 3.OCT.2013 18:32:16



POWER DENSITY 802.11N 20MHZ CH11

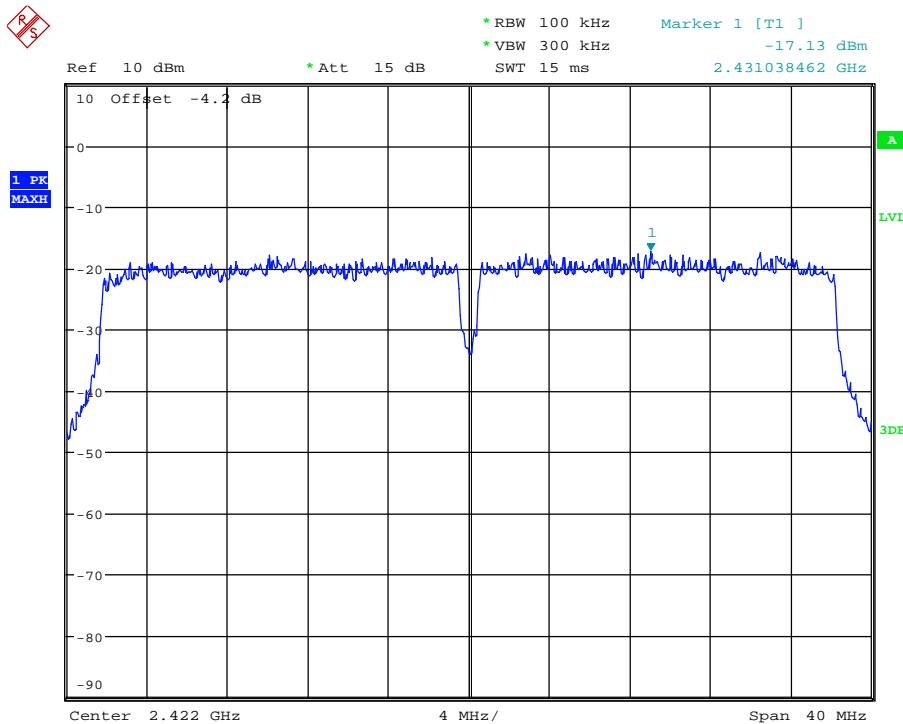
Date: 3.OCT.2013 18:33:40



# Worldwide Testing Services(Taiwan) Co., Ltd.

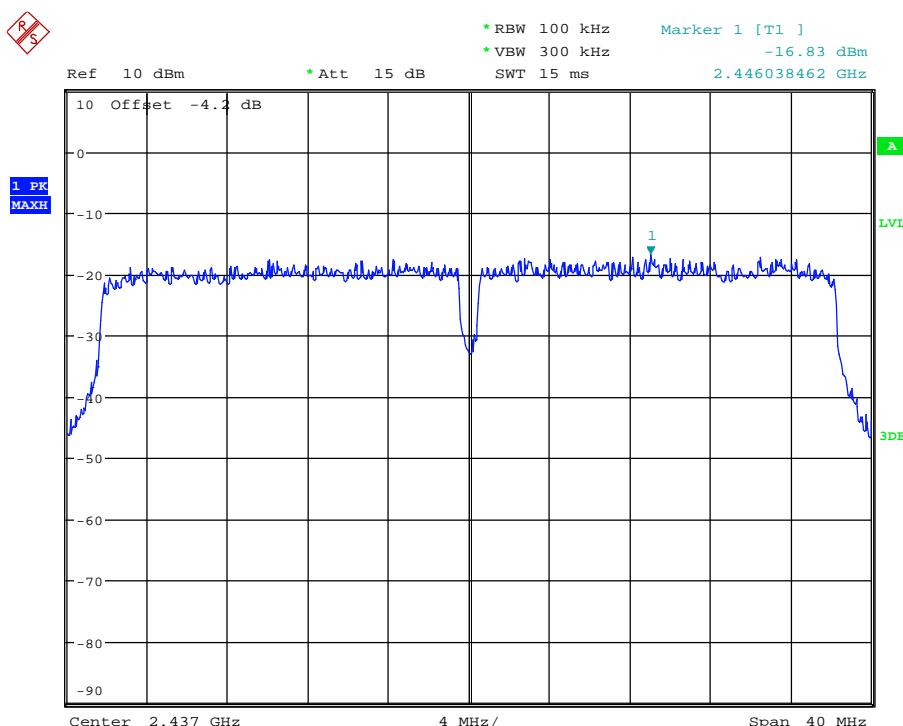
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



POWER DENSITY 802.11N 40MHZ CH01

Date: 3.OCT.2013 18:35:23



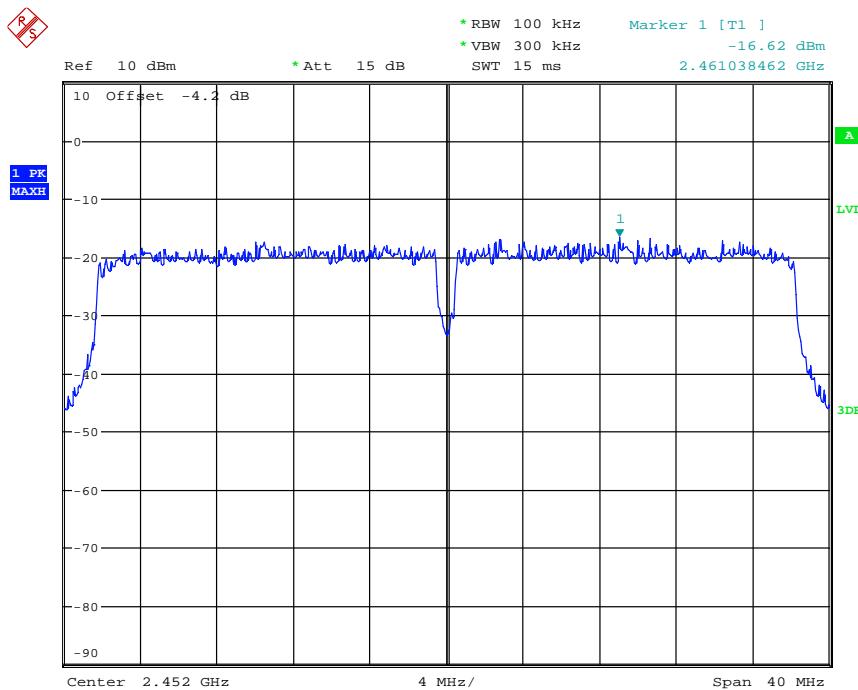
POWER DENSITY 802.11N 40MHZ CH04

Date: 3.OCT.2013 18:36:23



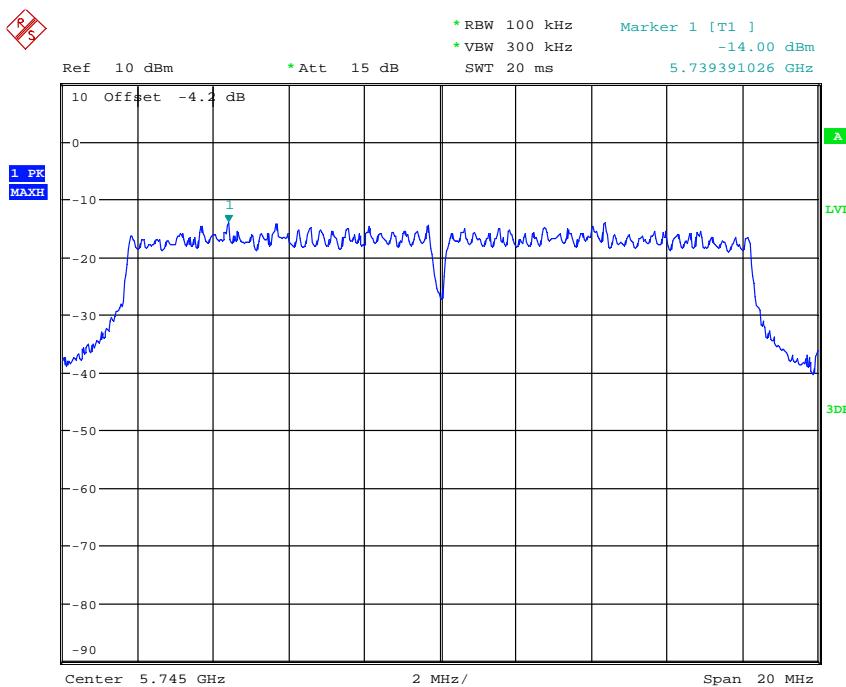
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

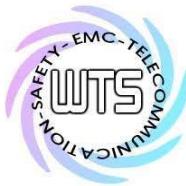


POWER DENSITY 802.11N 40MHZ CH07  
Date: 3.OCT.2013 18:37:00

## WLAN 5.745 ~ 5.825 GHz

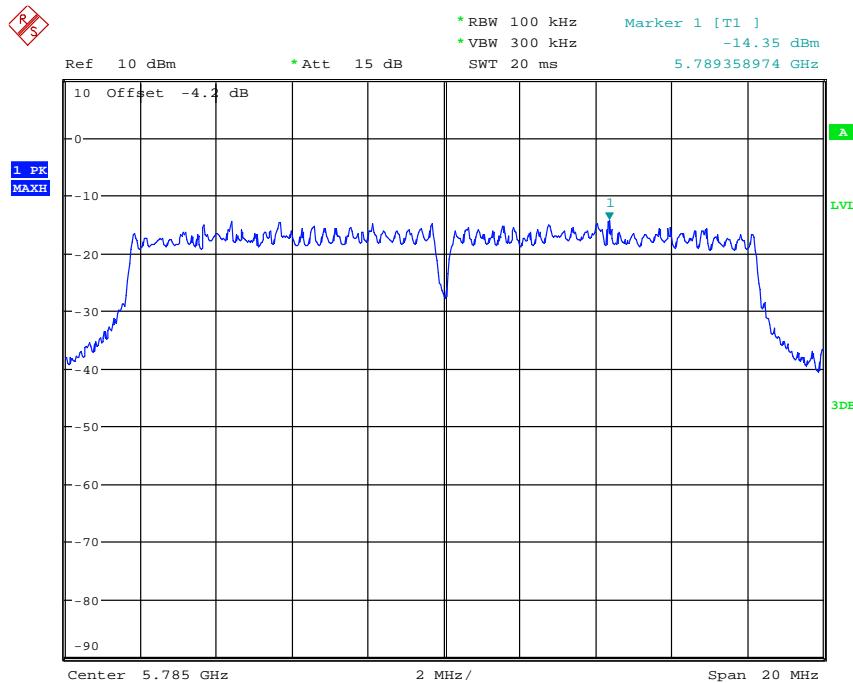


POWER DENSITY 802.11A CH149  
Date: 3.OCT.2013 18:48:33

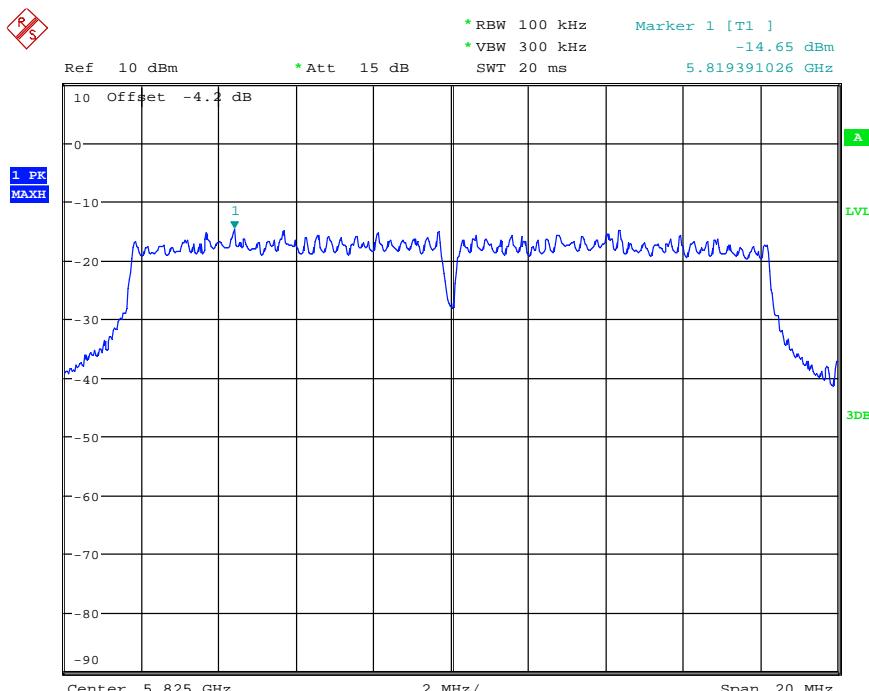


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



POWER DENSITY 802.11A CH157  
Date: 3.OCT.2013 19:12:13

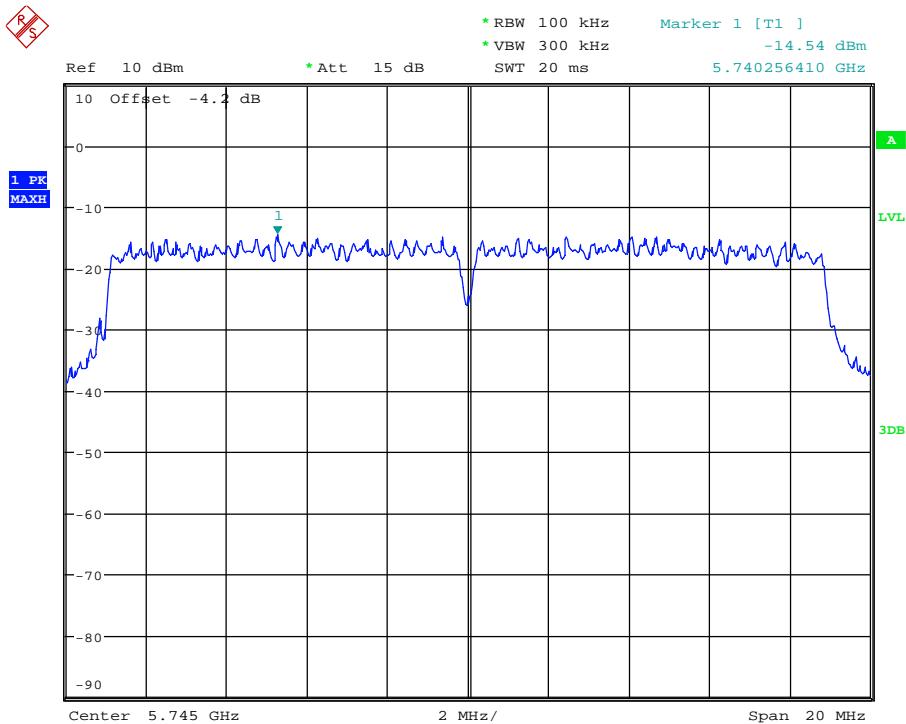


POWER DENSITY 802.11A CH165  
Date: 3.OCT.2013 19:13:02

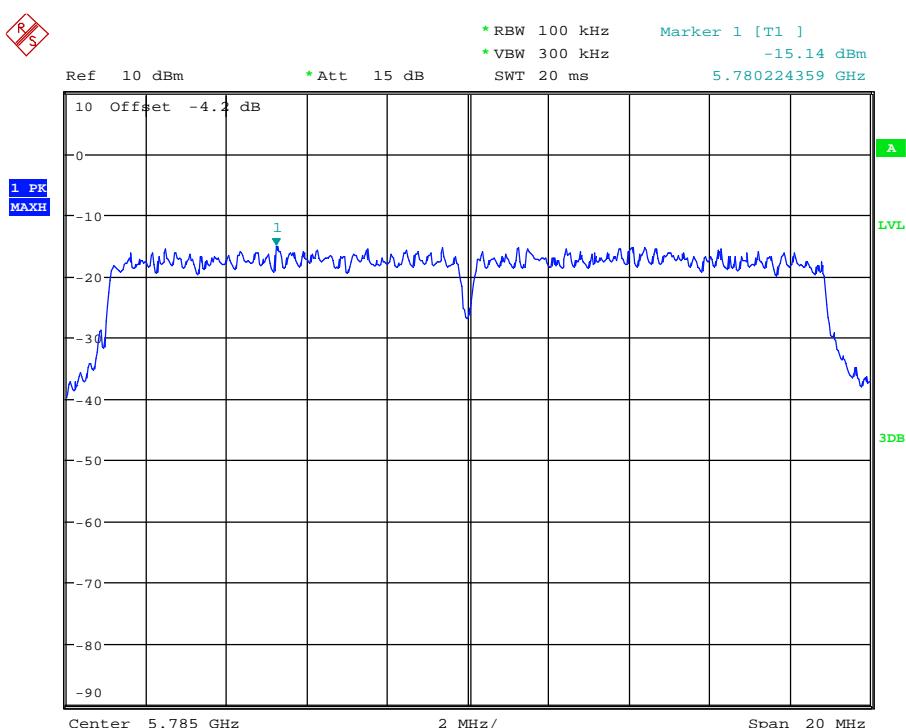


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



POWER DENSITY 802.11N 20MHZ CH149  
Date: 3.OCT.2013 19:14:16



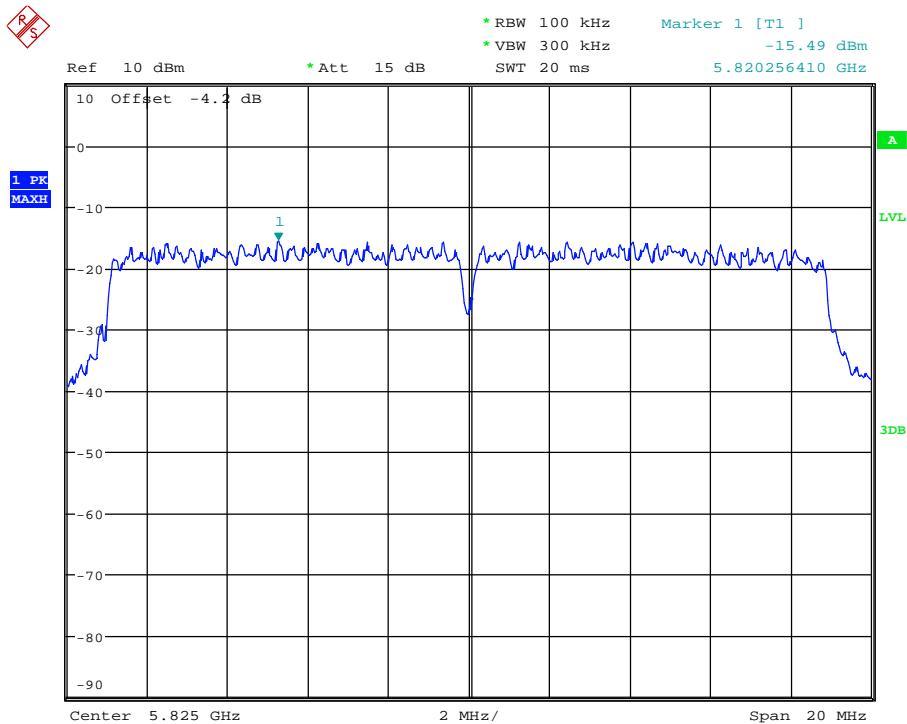
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Date: 3.OCT.2013 19:15:08



# Worldwide Testing Services(Taiwan) Co., Ltd.

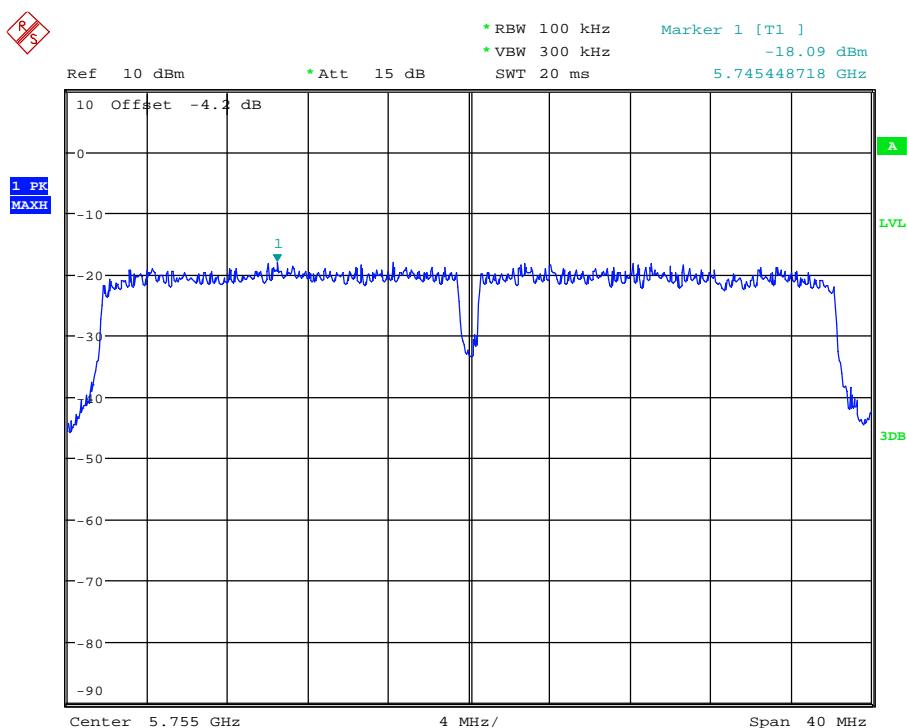
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



POWER DENSITY 802.11N 20MHZ CH165

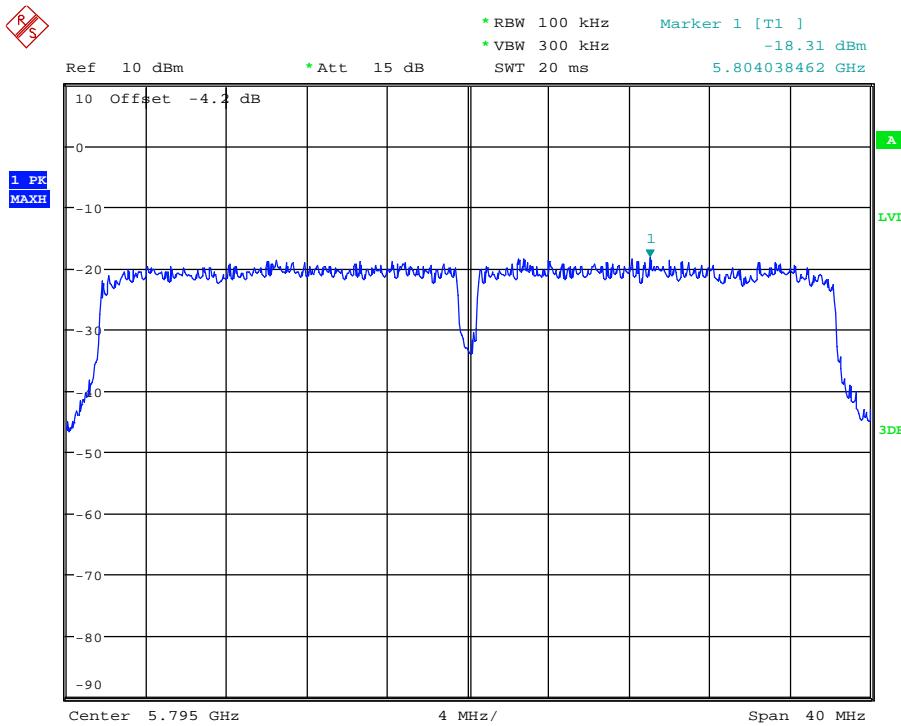
Date: 3.OCT.2013 19:17:09



POWER DENSITY 802.11N 40MHZ CH151

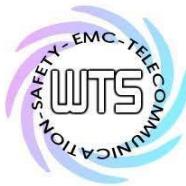
Date: 3.OCT.2013 19:18:38

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478



POWER DENSITY 802.11N 40MHZ CH159  
Date: 3.OCT.2013 19:20:12

ANT A (ANT 1)	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz(2.4GHz)	0.044	0.044	0.050	-13.58	-13.54	-13.02
802.11n 40MHz	0.020	0.023	0.022	-16.99	-16.46	-16.54
802.11n 20MHz(5.745 ~ 5.825 GHz)	0.027	0.030	0.035	-15.66	-15.28	-14.58
802.11n 40MHz	0.015	./.	0.016	-18.20	./.	-18.03
ANT B (ANT 2)	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz(2.4GHz)	0.036	0.039	0.044	-14.49	-14.05	-13.58
802.11n 40MHz	0.019	0.021	0.022	-17.13	-16.83	-16.62
802.11n 20MHz(5.745 ~ 5.825 GHz)	0.035	0.031	0.028	-14.54	-15.14	-15.49
802.11n 40MHz	0.016	./.	0.015	-18.09	./.	-18.31
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz(2.4GHz)	0.080	0.083	0.094	-10.97	-10.81	-10.27
802.11n 40MHz	0.039	0.044	0.044	-14.09	-13.57	-13.57
802.11n 20MHz(5.745 ~ 5.825 GHz)	0.062	0.061	0.063	-12.08	-12.15	-12.01
802.11n 40MHz	0.031	./.	0.031	-15.09	./.	-15.09



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Limits:

Frequency Range MHz	dBm
902-928	8
2400-2483.5	8
5725-5850	8

Test equipment used: ETSTW-RE 055, ETSTW-RE 050



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## **3.9 Radiated Emission from Digital Part**

FCC Rule: 15.109

Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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

Test equipment used: ETSTW-RE 055, ETSTW-RE 064, ETSTW-RE 004, ETSTW-RE 030  
ETSTW-RE 111

Explanation: The test results are listed in the separated test report no.: W6M21308-13478-P-15B.



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

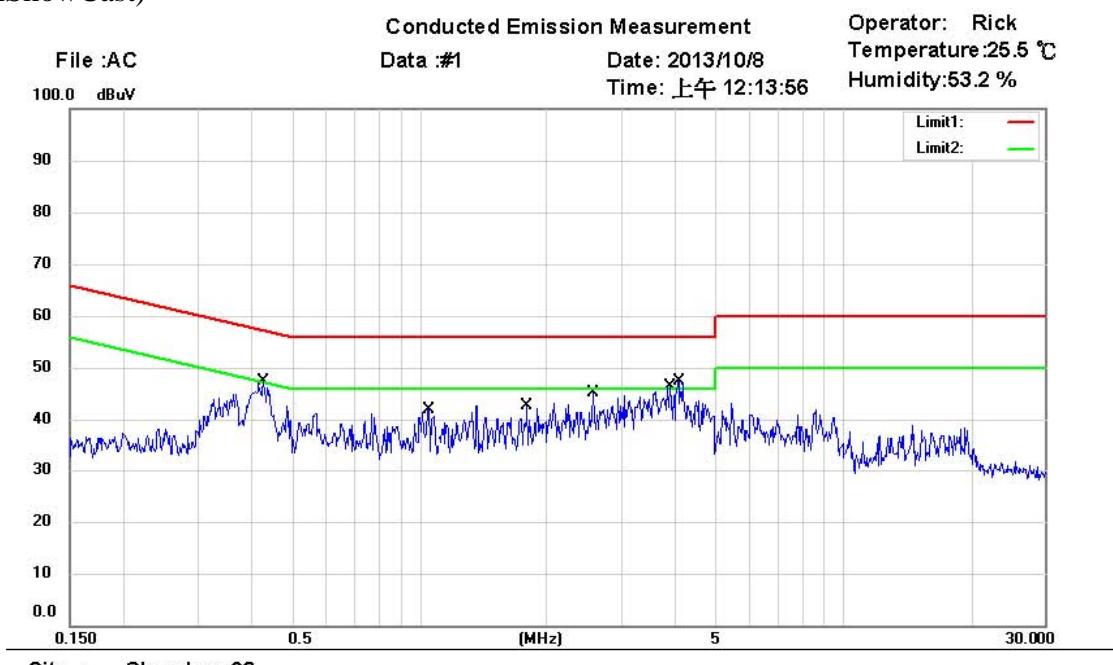
FCC ID: 2AA4J-W6M2130813478

## 3.10 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 bellows 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 transact 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.

DLNA(iShowCast)



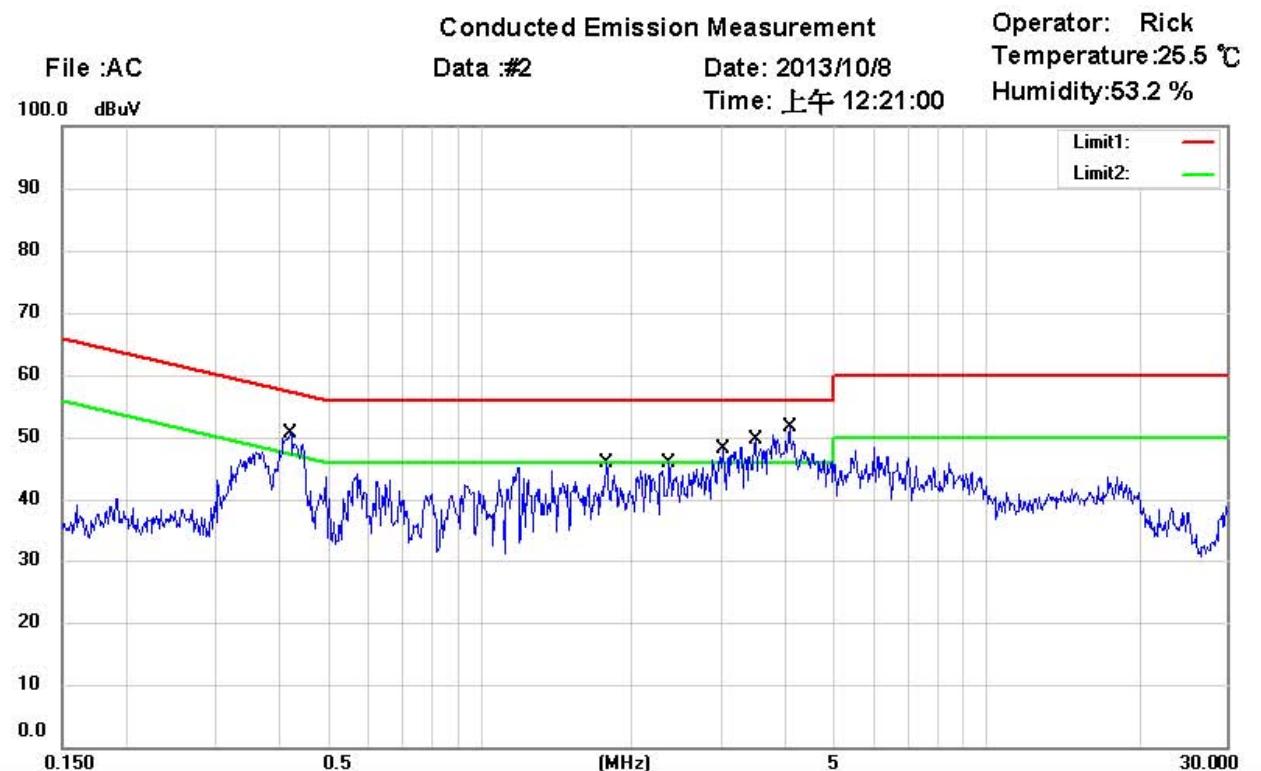
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.4275	30.55	QP	10.11	40.66	57.30	-16.64	
*	0.4275	23.66	AVG	10.11	33.77	47.30	-13.53	
	1.0444	22.26	QP	10.14	32.40	56.00	-23.60	
	1.0444	11.80	AVG	10.14	21.94	46.00	-24.06	
	1.7938	22.32	QP	10.17	32.49	56.00	-23.51	
	1.7938	14.14	AVG	10.17	24.31	46.00	-21.69	
	2.5678	23.40	QP	10.21	33.61	56.00	-22.39	
	2.5678	15.17	AVG	10.21	25.38	46.00	-20.62	
	3.8953	27.66	QP	10.31	37.97	56.00	-18.03	
	3.8953	19.09	AVG	10.31	29.40	46.00	-16.60	
	4.0708	27.98	QP	10.32	38.30	56.00	-17.70	
	4.0708	19.73	AVG	10.32	30.05	46.00	-15.95	



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21308-13478

Power : 120VAC

M/N: MTV2000

Test Mode : DLAN(iShowCast)

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.4214	33.69	QP	10.11	43.80	57.42	-13.62	
*	0.4214	26.74	AVG	10.11	36.85	47.42	-10.57	
	1.7803	26.97	QP	10.18	37.15	56.00	-18.85	
	1.7803	17.13	AVG	10.18	27.31	46.00	-18.69	
	2.3653	28.29	QP	10.22	38.51	56.00	-17.49	
	2.3653	17.83	AVG	10.22	28.05	46.00	-17.95	
	3.0178	29.03	QP	10.26	39.29	56.00	-16.71	
	3.0178	18.98	AVG	10.26	29.24	46.00	-16.76	
	3.5060	30.81	QP	10.30	41.11	56.00	-14.89	
	3.5060	20.73	AVG	10.30	31.03	46.00	-14.97	
	4.0775	33.60	QP	10.35	43.95	56.00	-12.05	
	4.0775	23.08	AVG	10.35	33.43	46.00	-12.57	

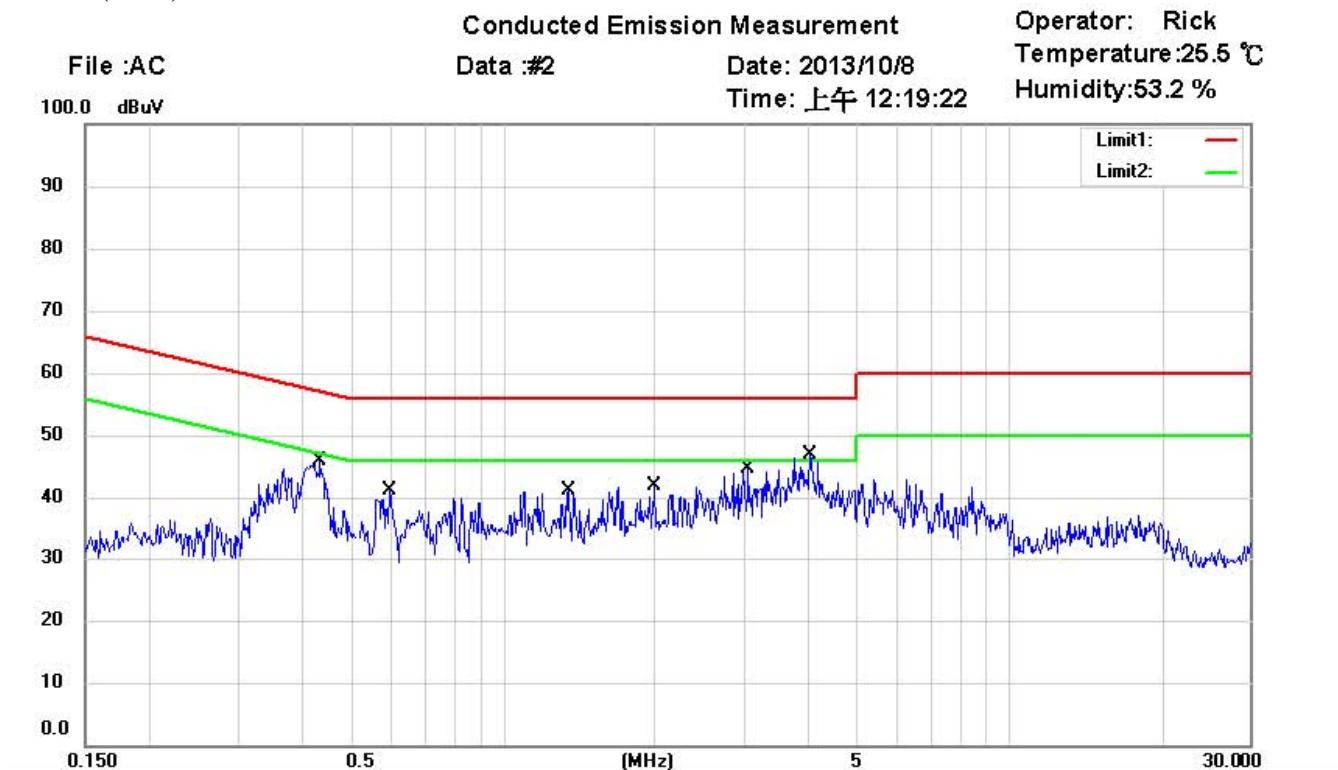


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

DLNA(USB)



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: N

EUT : W6M21308-13478

Power : 120VAC

M/N: MTV2000

Test Mode : DLNA(USB)

Note :

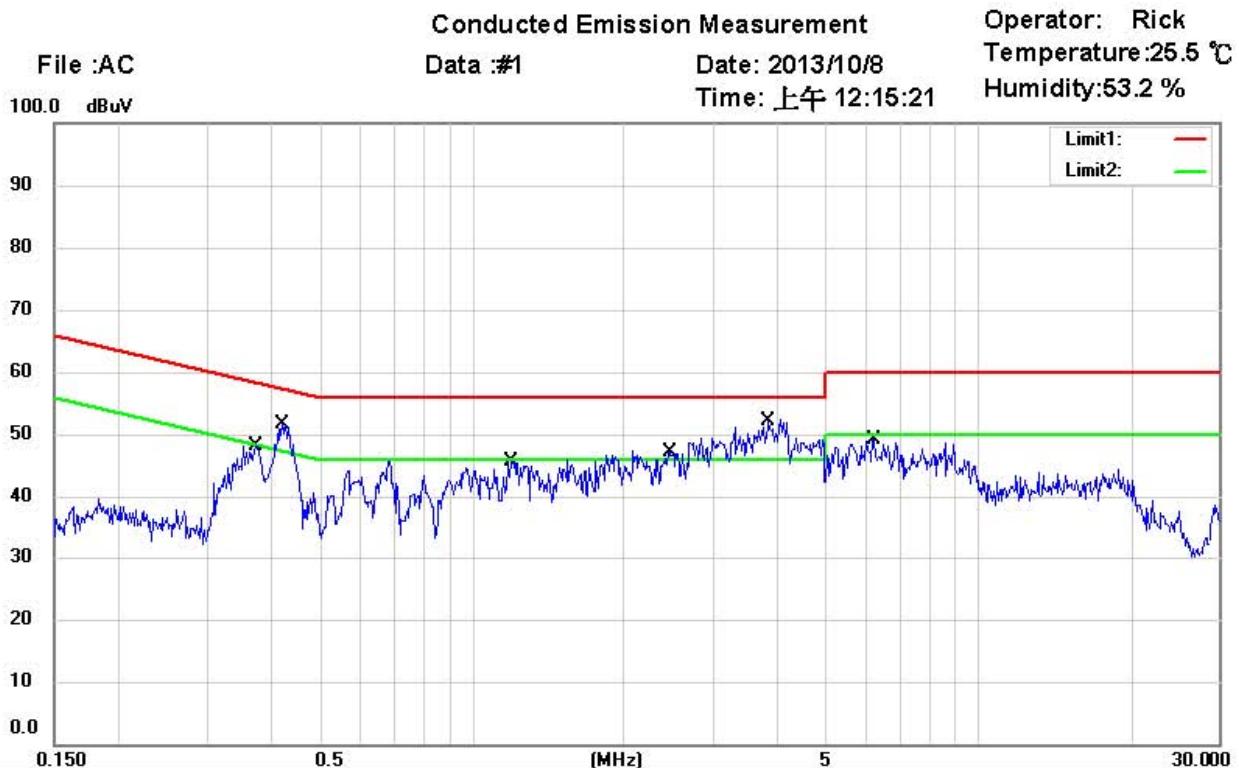
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.4348	32.25	QP	10.11	42.36	57.16	-14.80	
*	0.4348	26.74	AVG	10.11	36.85	47.16	-10.31	
	0.5967	23.50	QP	10.12	33.62	56.00	-22.38	
	0.5967	14.23	AVG	10.12	24.35	46.00	-21.65	
	1.3482	22.00	QP	10.15	32.15	56.00	-23.85	
	1.3482	12.49	AVG	10.15	22.64	46.00	-23.36	
	1.9940	22.57	QP	10.18	32.75	56.00	-23.25	
	1.9940	12.60	AVG	10.18	22.78	46.00	-23.22	
	3.0492	26.91	QP	10.24	37.15	56.00	-18.85	
	3.0492	18.41	AVG	10.24	28.65	46.00	-17.35	
	4.0505	27.65	QP	10.32	37.97	56.00	-18.03	
	4.0505	19.13	AVG	10.32	29.45	46.00	-16.55	



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21308-13478

Power : 120VAC

M/N: MTV2000

Test Mode : DLNA(USB)

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.3751	31.54	QP	10.11	41.65	58.39	-16.74	
	0.3751	20.74	AVG	10.11	30.85	48.39	-17.54	
	0.4200	35.54	QP	10.11	45.65	57.45	-11.80	
*	0.4200	26.57	AVG	10.11	36.68	47.45	-10.77	
	1.1930	31.20	QP	10.15	41.35	56.00	-14.65	
	1.1930	20.47	AVG	10.15	30.62	46.00	-15.38	
	2.4485	31.14	QP	10.22	41.36	56.00	-14.64	
	2.4485	22.43	AVG	10.22	32.65	46.00	-13.35	
	3.8591	33.49	QP	10.33	43.82	56.00	-12.18	
	3.8591	23.24	AVG	10.33	33.57	46.00	-12.43	
	6.1875	31.84	QP	10.51	42.35	60.00	-17.65	
	6.1875	23.06	AVG	10.51	33.57	50.00	-16.43	

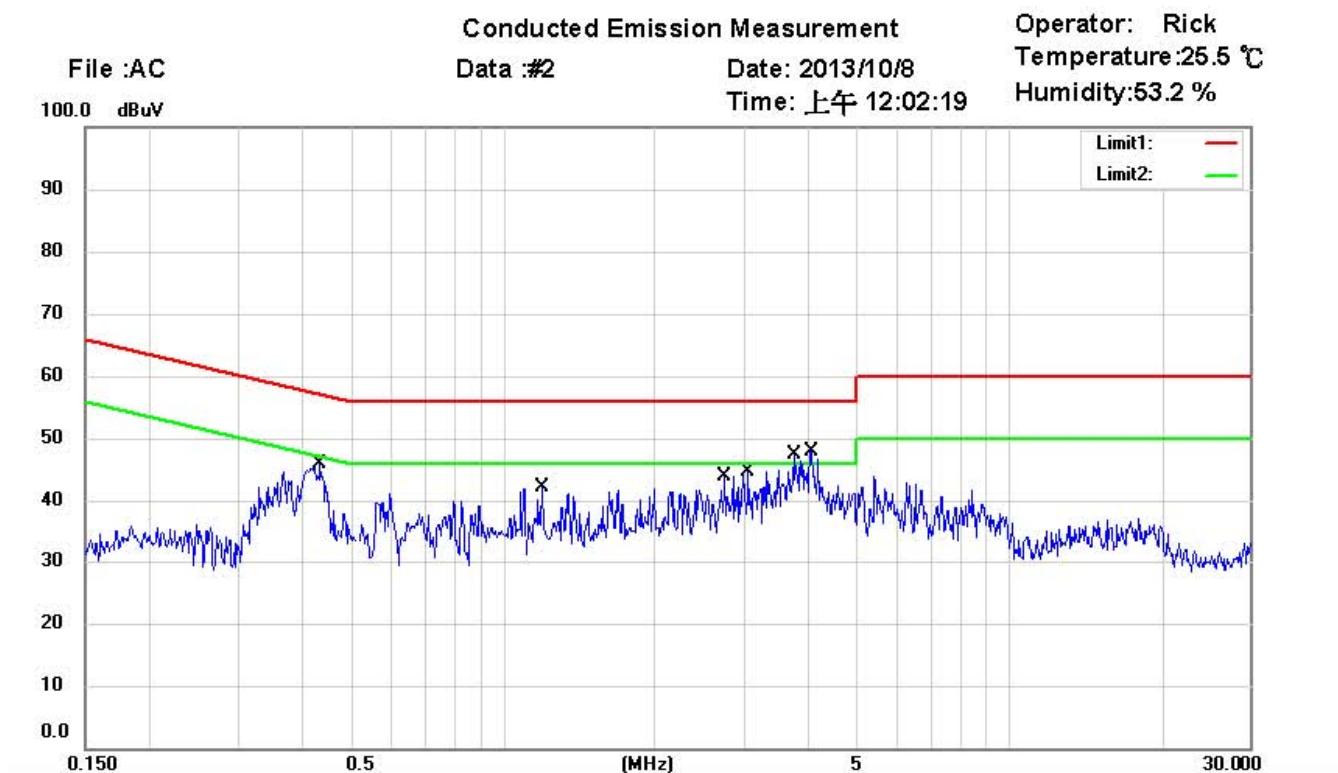


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

Miracast



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: *N*

EUT : W6M21308-13478

Power : 120VAC

M/N: MTV2000

Test Mode : Miracast

Note :

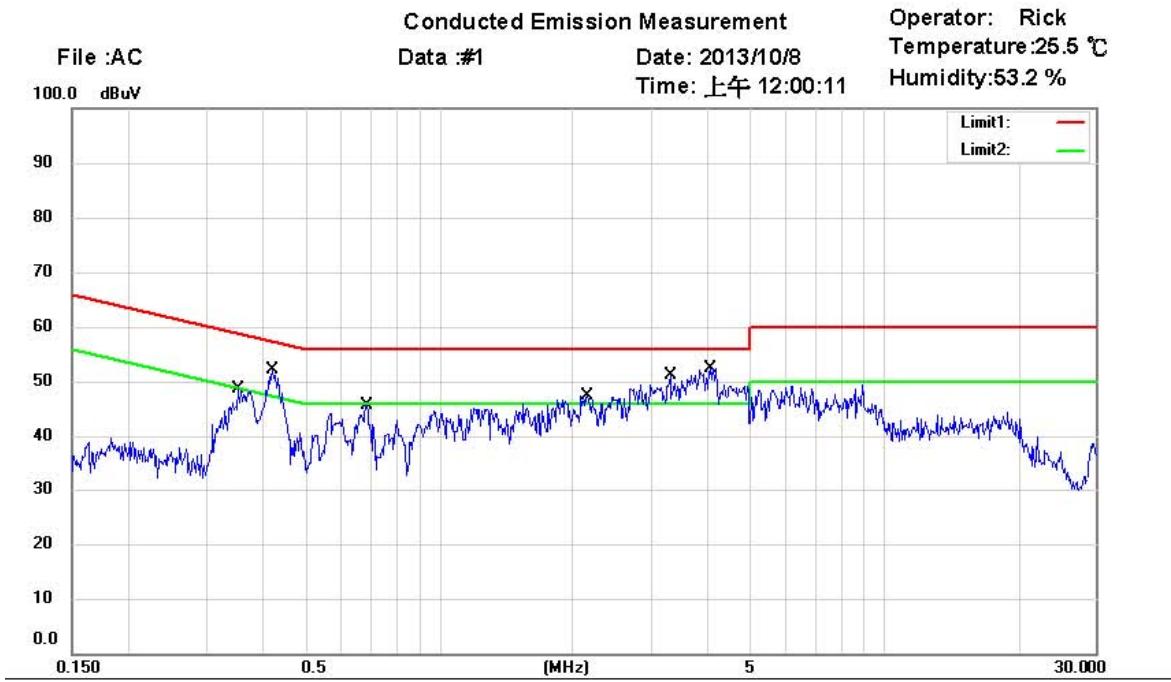
Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.4350	29.59	QP	10.11	39.70	57.16	-17.46	
*	0.4350	23.01	AVG	10.11	33.12	47.16	-14.04	
	1.1975	22.11	QP	10.15	32.26	56.00	-23.74	
	1.1975	15.29	AVG	10.15	25.44	46.00	-20.56	
	2.7478	23.46	QP	10.22	33.68	56.00	-22.32	
	2.7478	15.59	AVG	10.22	25.81	46.00	-20.19	
	3.0493	24.09	QP	10.24	34.33	56.00	-21.67	
	3.0493	16.44	AVG	10.24	26.68	46.00	-19.32	
	3.7490	27.60	QP	10.30	37.90	56.00	-18.10	
	3.7490	19.02	AVG	10.30	29.32	46.00	-16.68	
	4.0505	27.96	QP	10.32	38.28	56.00	-17.72	
	4.0505	19.00	AVG	10.32	29.32	46.00	-16.68	



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Site : Chamber\_03

Condition : FCC Part 15 Class B Conduction (QP)

Phase: L1

EUT : W6M21308-13478

Power : 120VAC

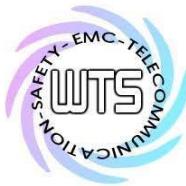
M/N: MTV2000

Test Mode : Miracast

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.3526	29.78	QP	10.11	39.89	58.90	-19.01	
	0.3526	21.74	AVG	10.11	31.85	48.90	-17.05	
	0.4200	34.92	QP	10.11	45.03	57.45	-12.42	
*	0.4200	28.92	AVG	10.11	39.03	47.45	-8.42	
	0.6845	26.00	QP	10.13	36.13	56.00	-19.87	
	0.6845	17.84	AVG	10.13	27.97	46.00	-18.03	
	2.1493	28.08	QP	10.20	38.28	56.00	-17.72	
	2.1493	17.18	AVG	10.20	27.38	46.00	-18.62	
	3.3035	30.23	QP	10.28	40.51	56.00	-15.49	
	3.3035	20.12	AVG	10.28	30.40	46.00	-15.60	
	4.0663	33.09	QP	10.35	43.44	56.00	-12.56	
	4.0663	22.57	AVG	10.35	32.92	46.00	-13.08	

- Note:
1. The formula of measured value as: Test Result = Reading + Correction Factor
  2. The Correction Factor = Cable Loss + LISN Insertion Loss + Pulse Limit Loss
  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.
  5. Measurement uncertainty =  $\pm 1.60$  dB; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .
  6. Up Line: QP Limit Line, Down Line: Ave Limit Line.



# Worldwide Testing Services(Taiwan) Co., Ltd.

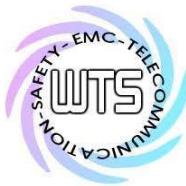
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Limits:

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Test equipment used:ETSTW-CE 001, ETSTW-CE 004, ETSTW-CE 006, ETSTW-RE 045



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1  
FCC ID: 2AA4J-W6M2130813478

## Appendix

### **Measurement diagrams**

Spurious Emissions radiated



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Spurious Emissions radiated\_Transmitter

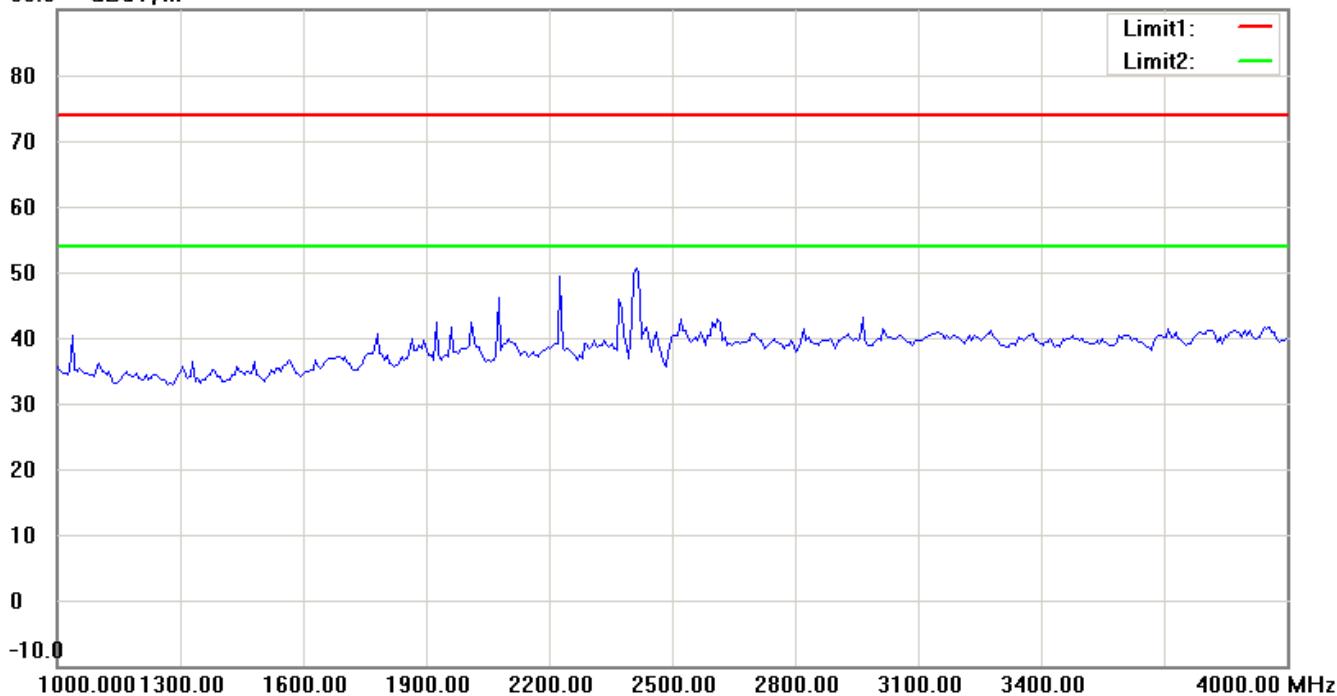
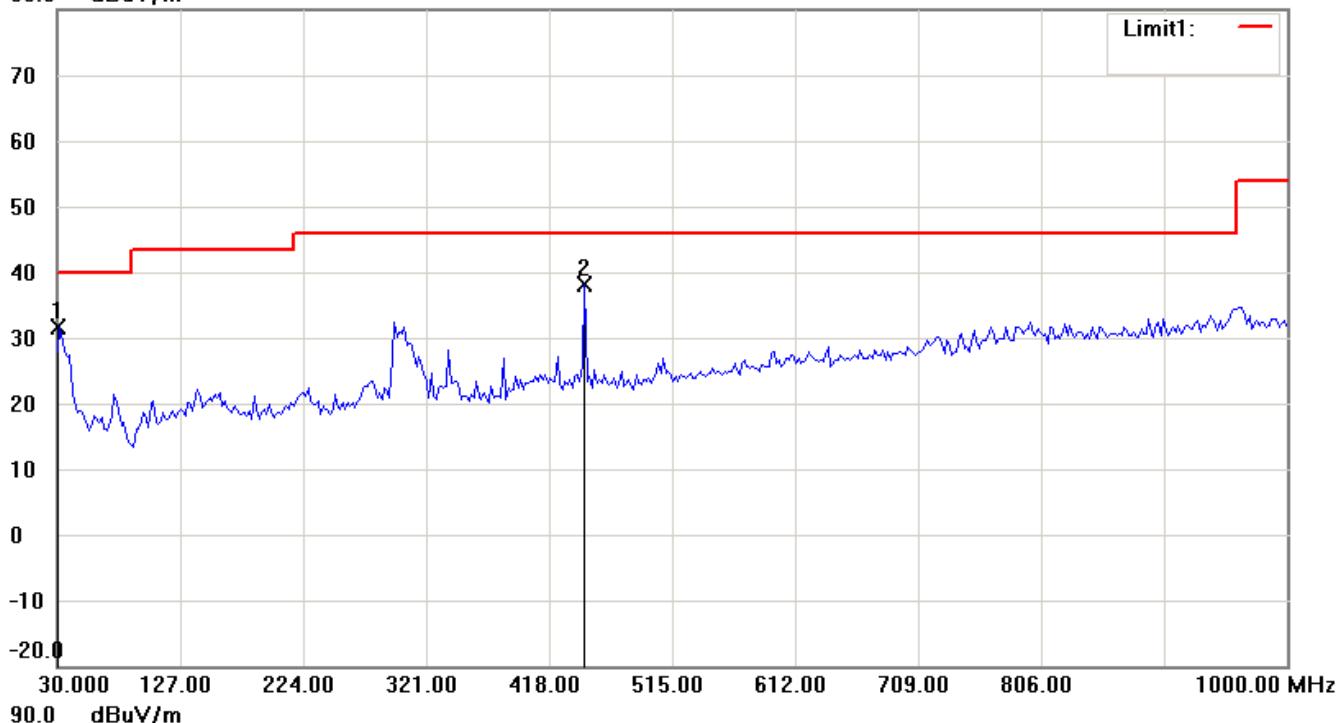
ANT A (ANT 1)

WLAN 2.4GHz

802.11b ch1 TX

Antenna Polarization H

80.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

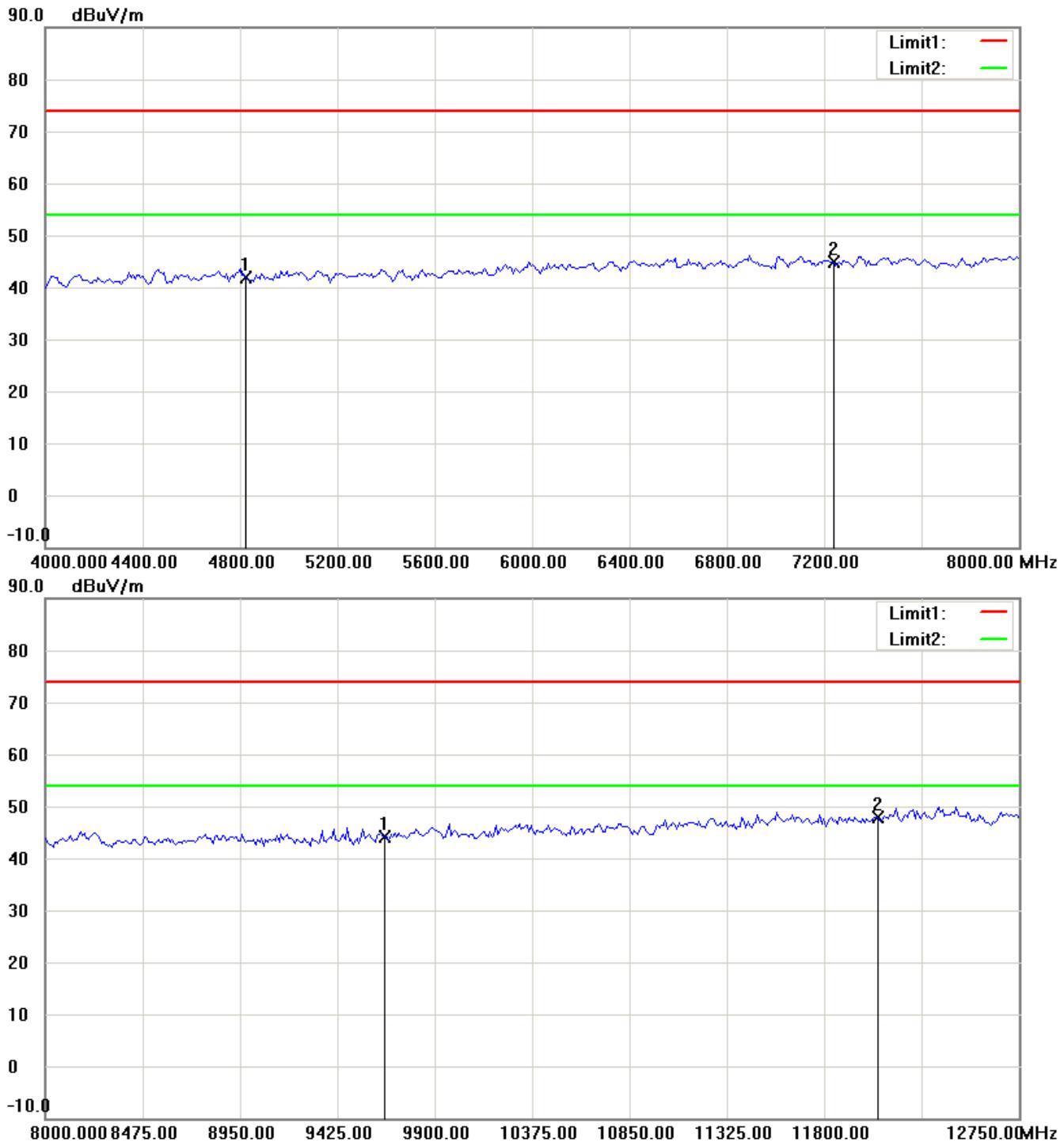
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

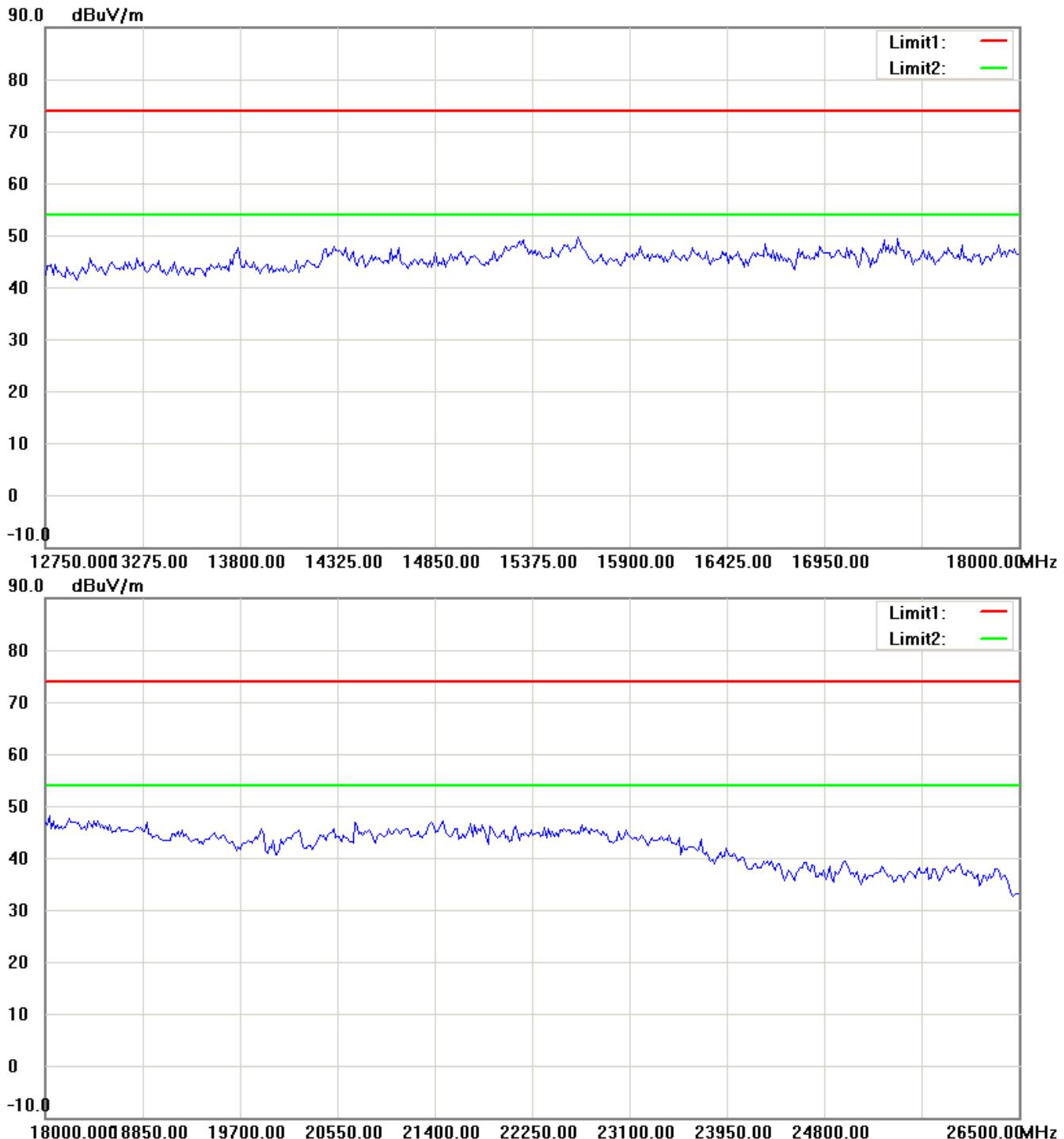
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

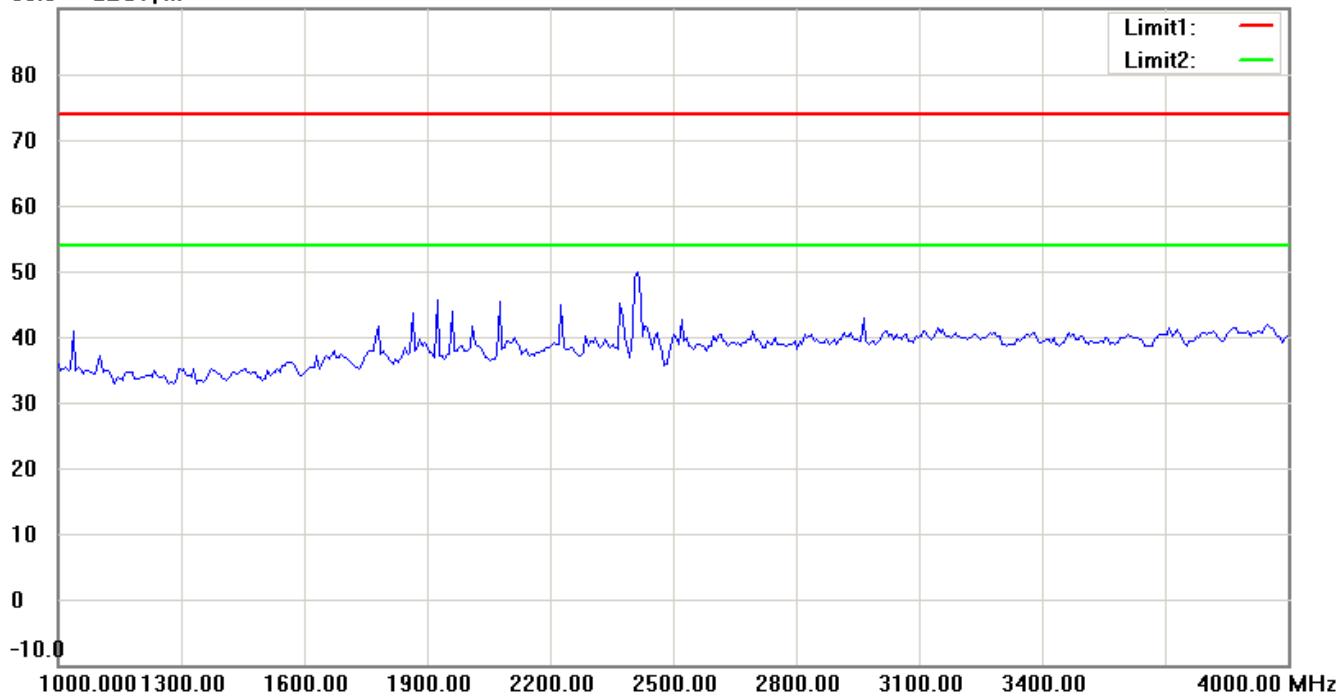
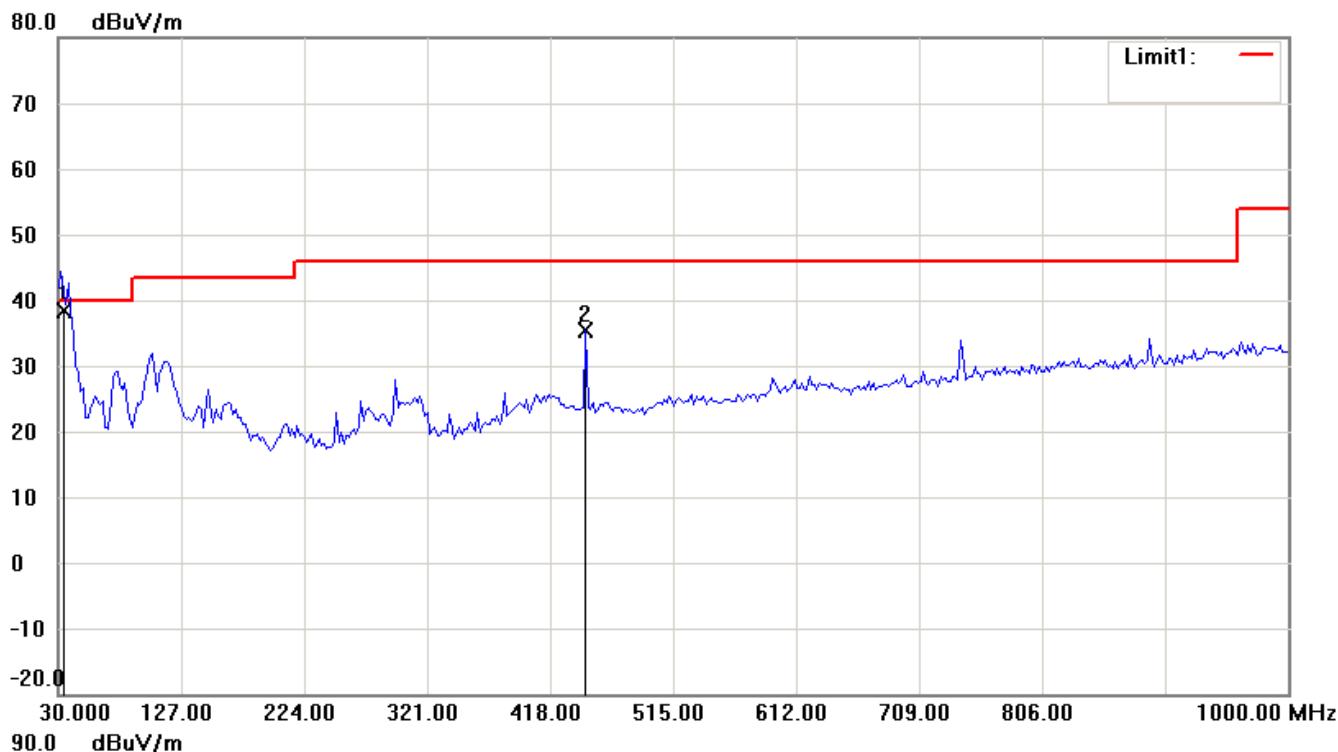


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

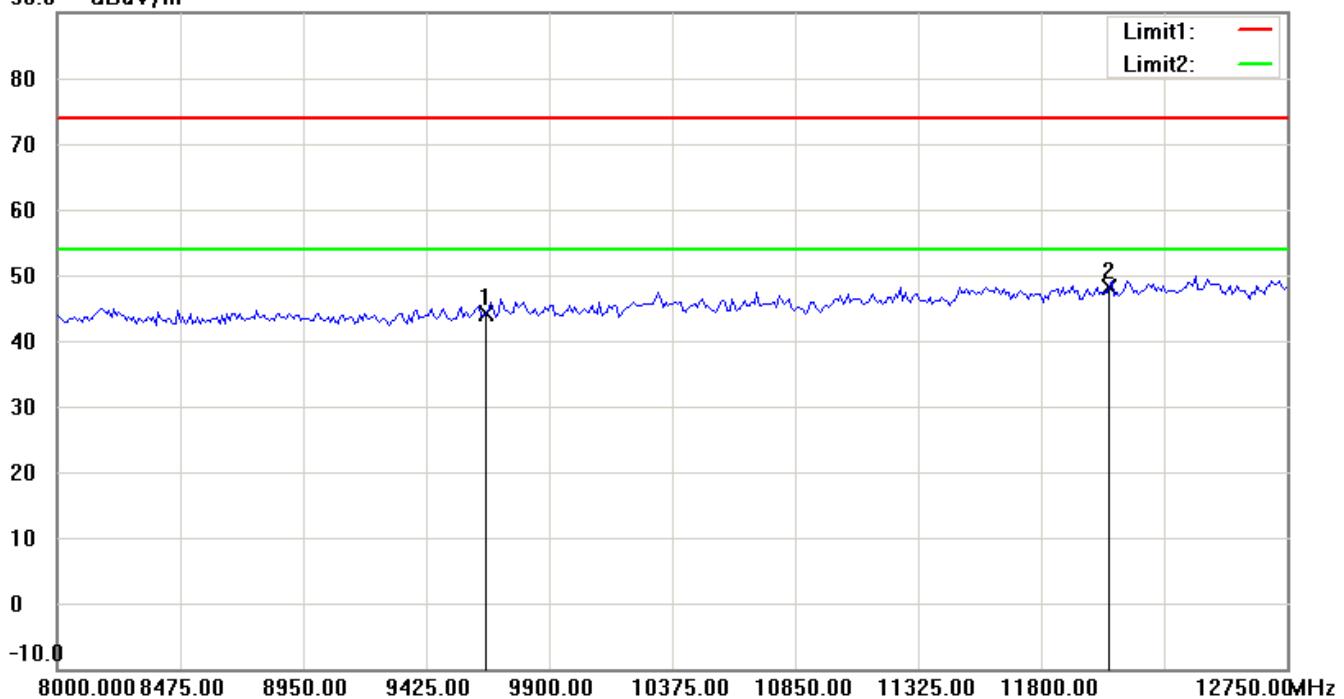
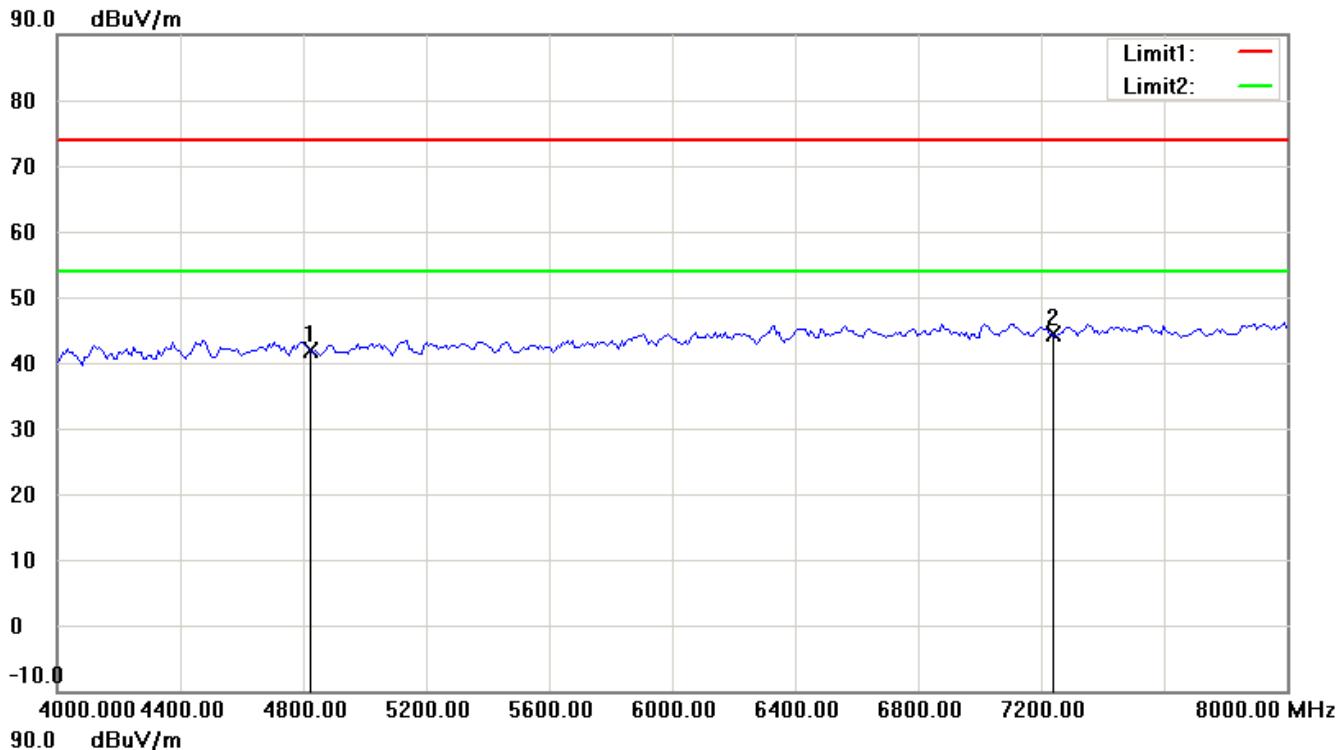
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

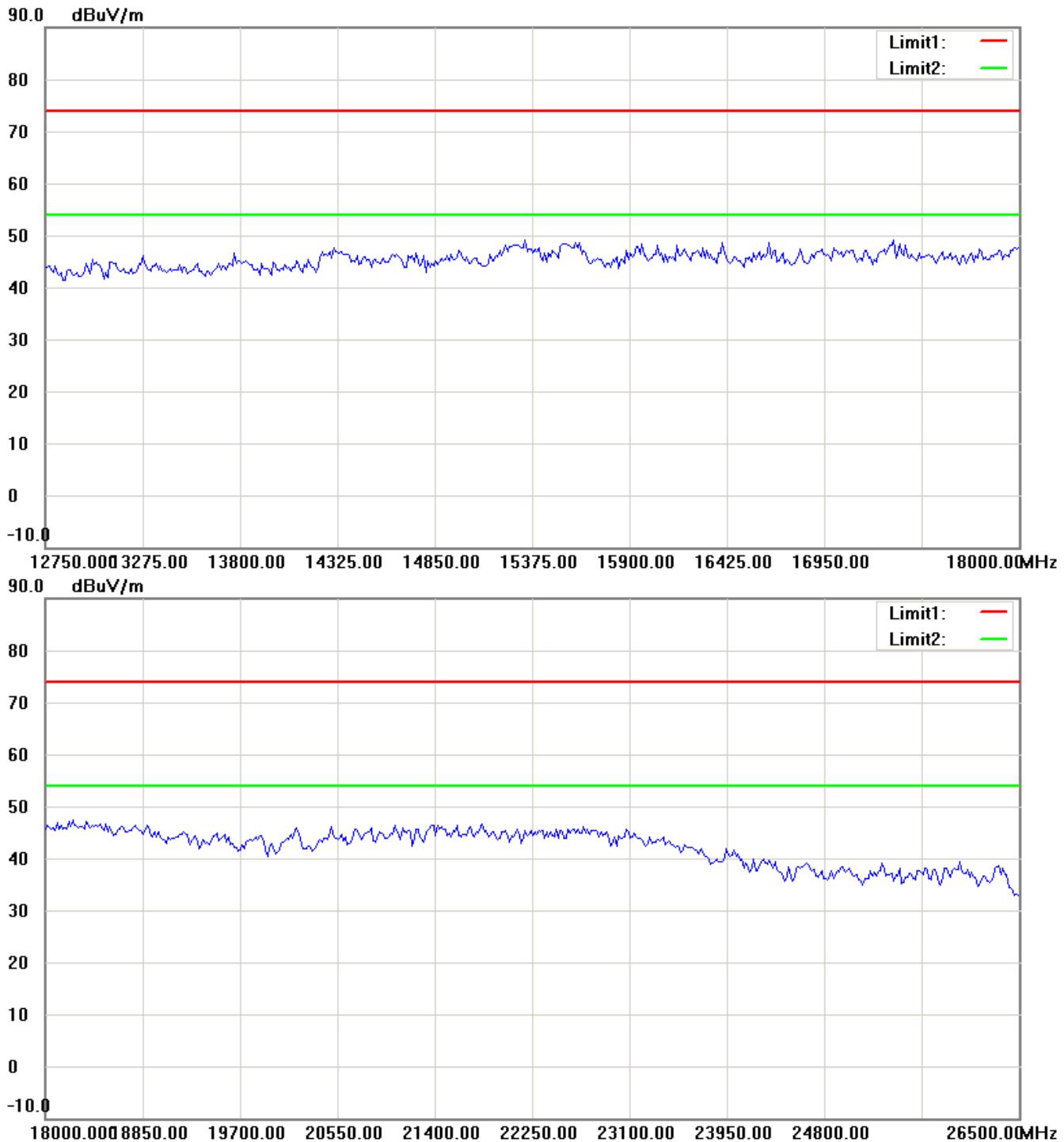
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



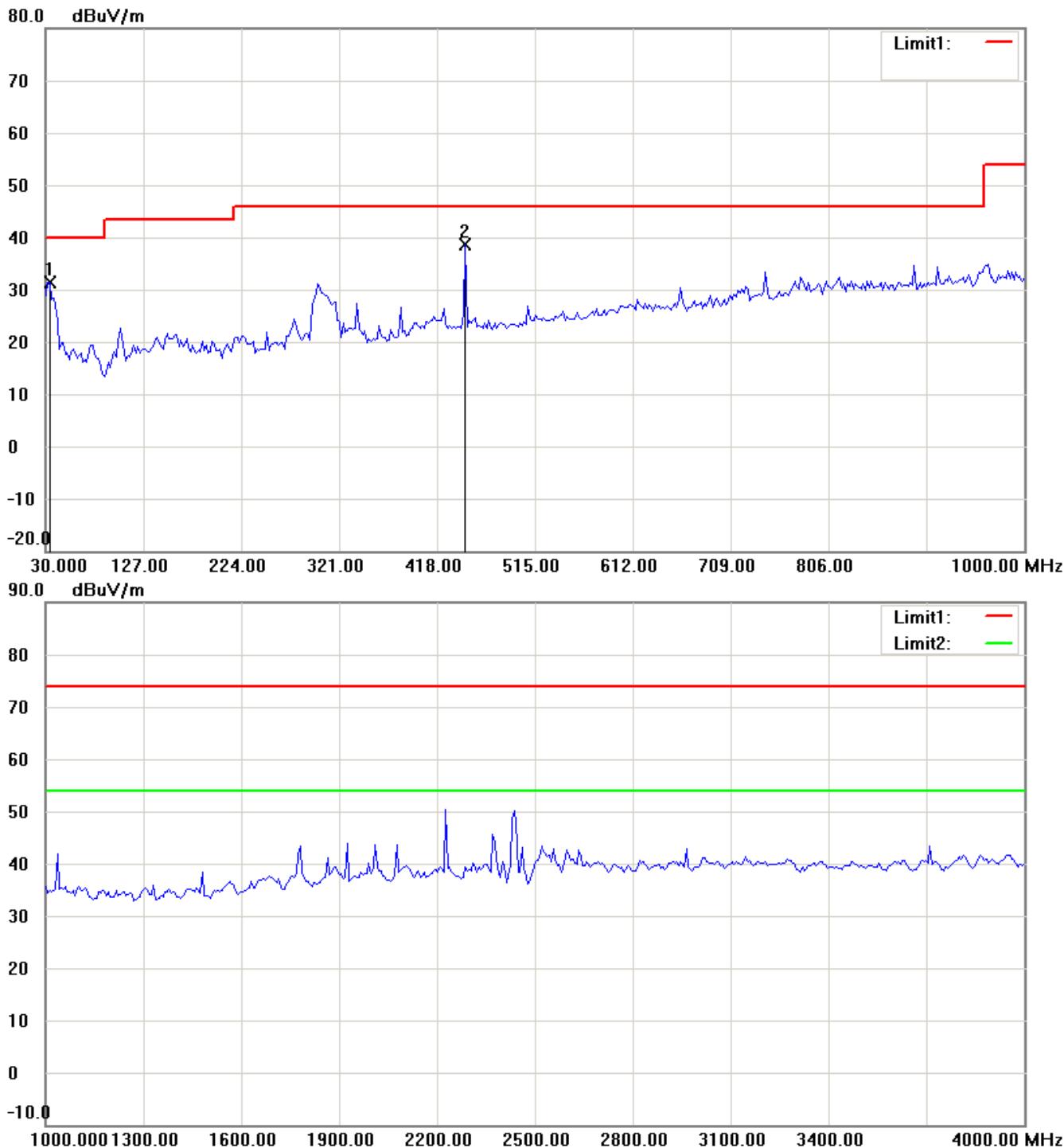
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

802.11b ch6 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

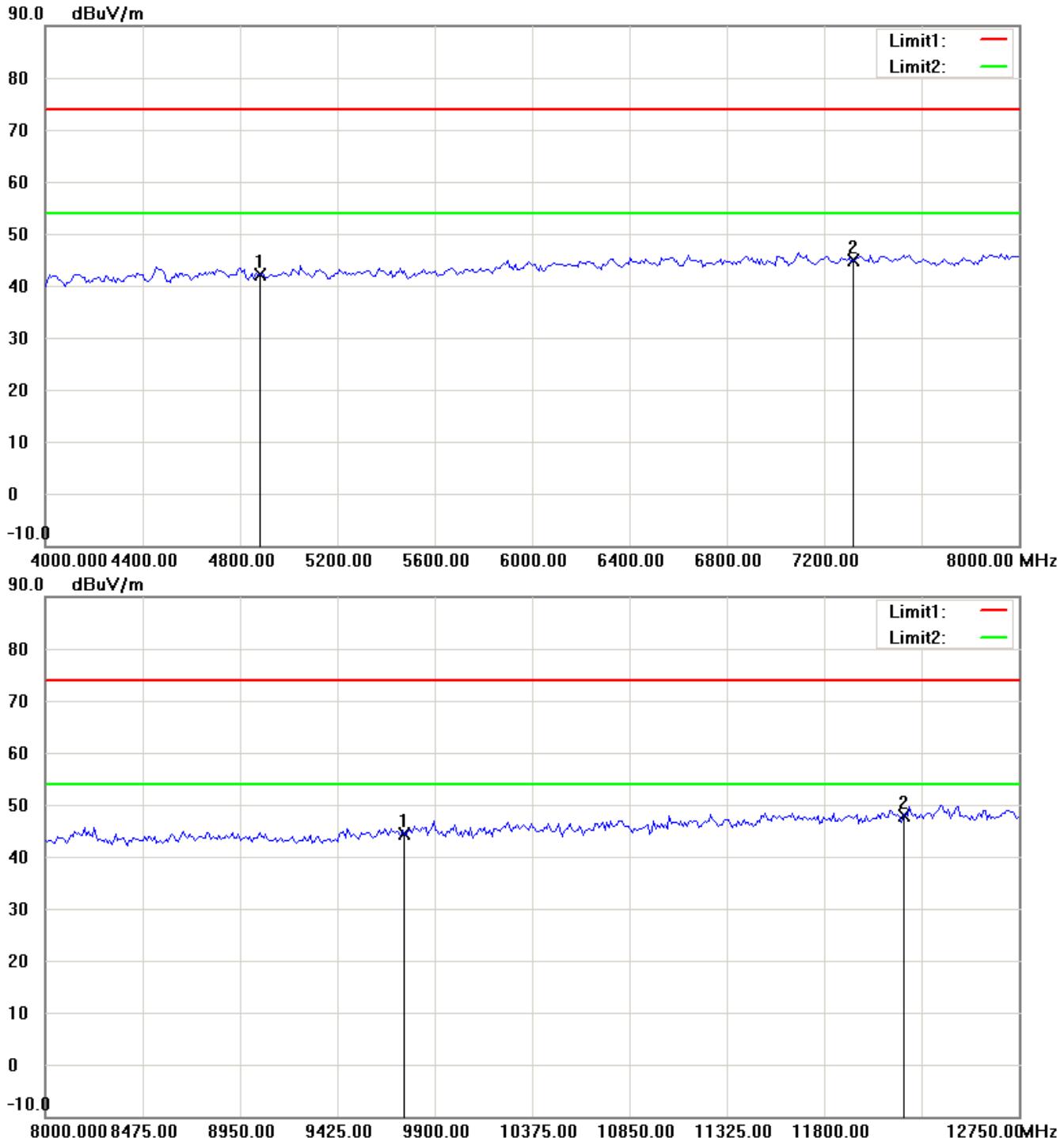
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

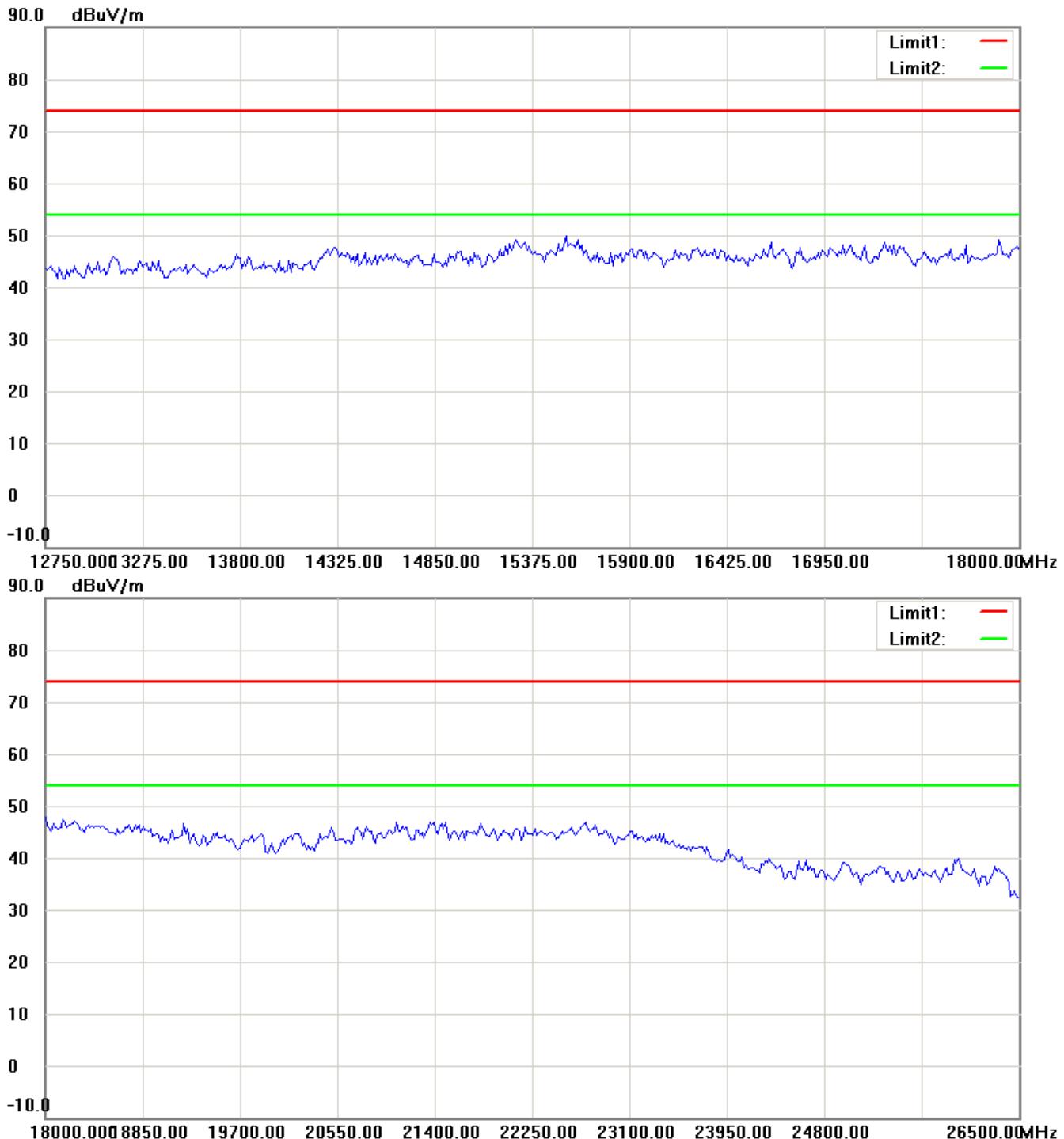
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.

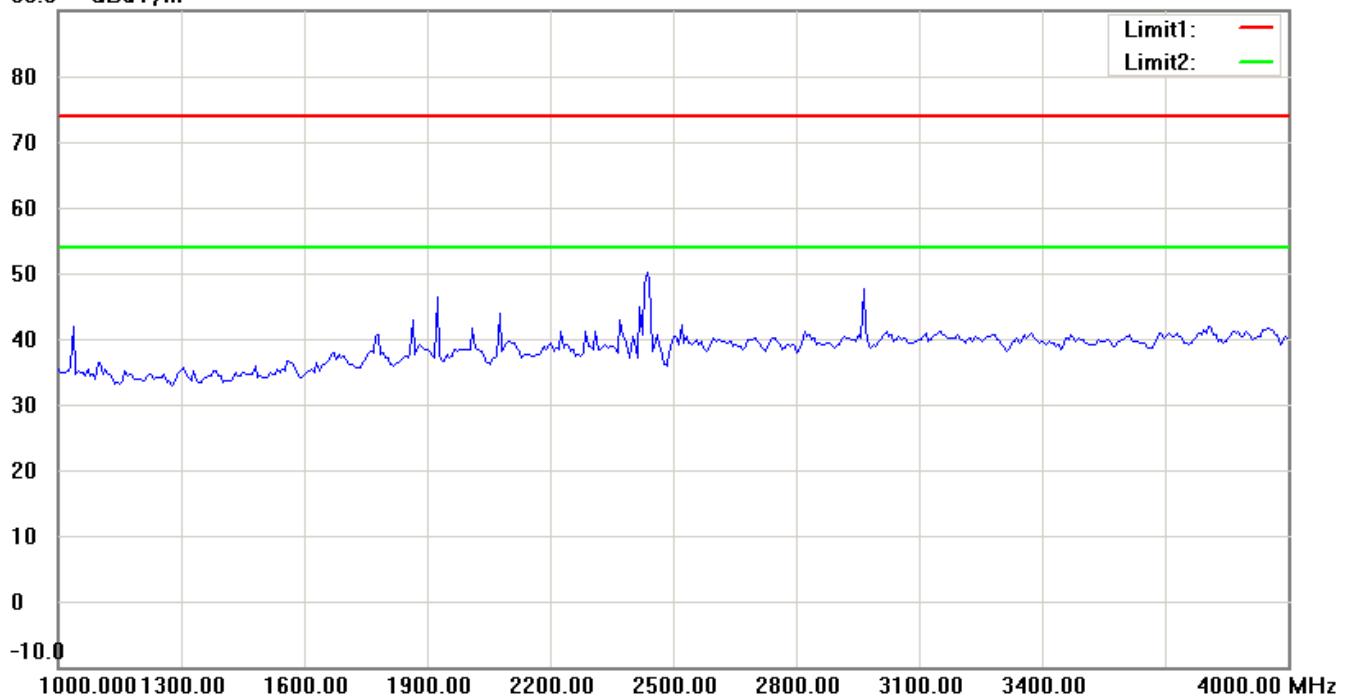
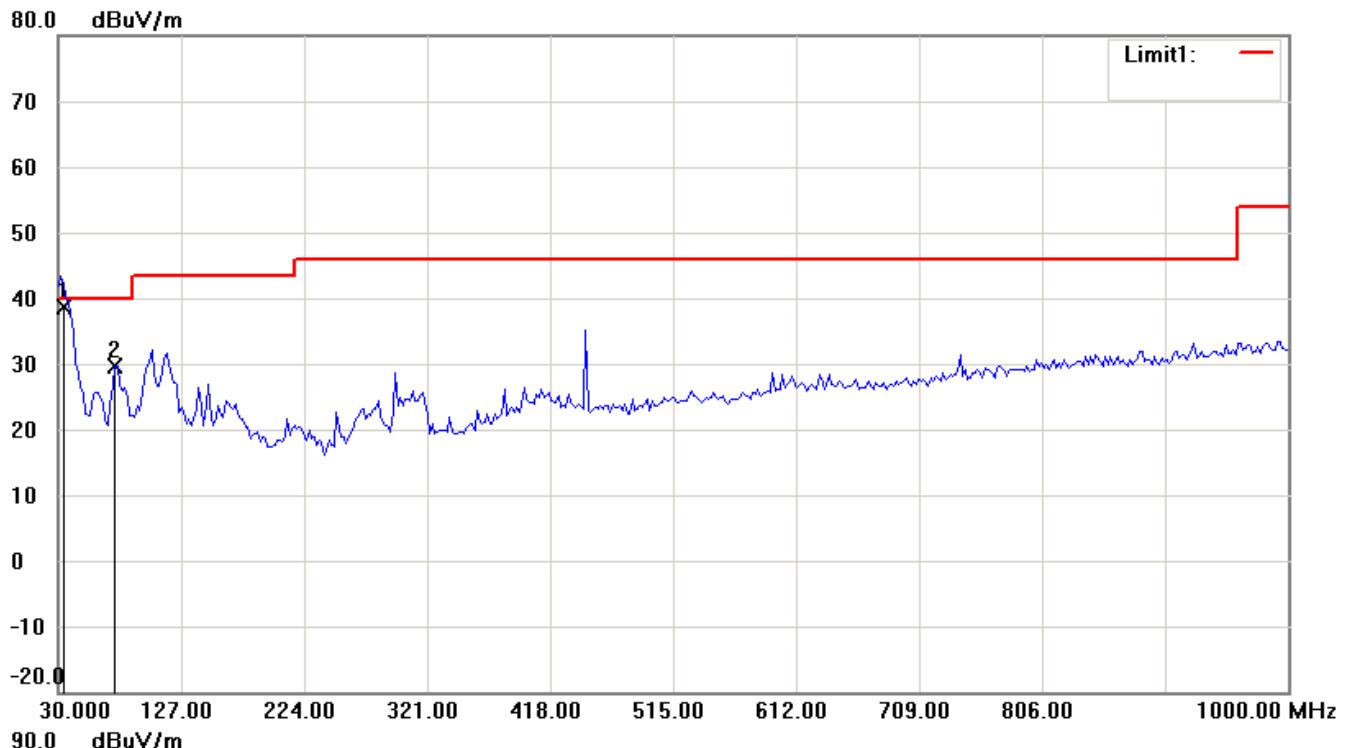


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

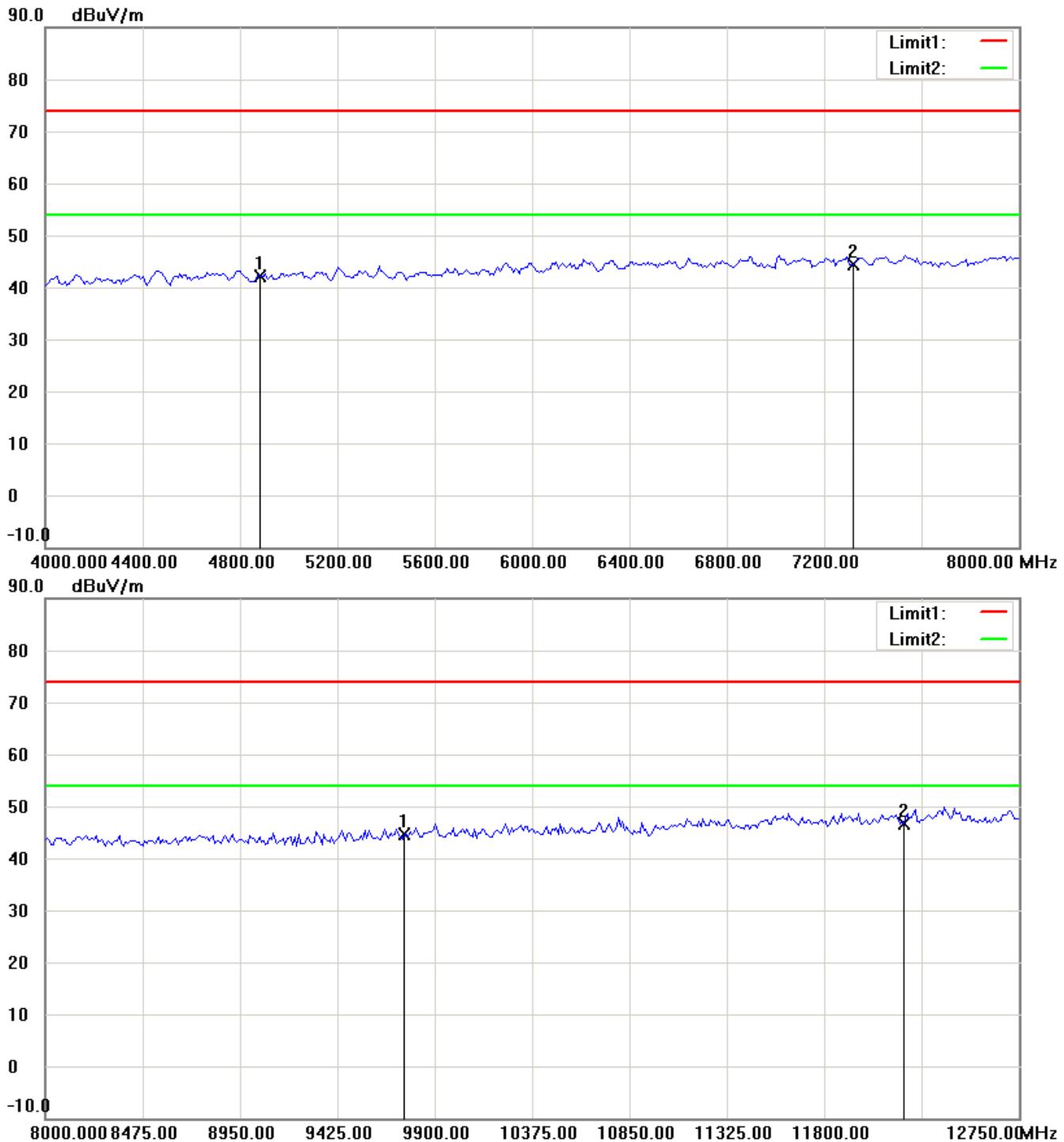
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

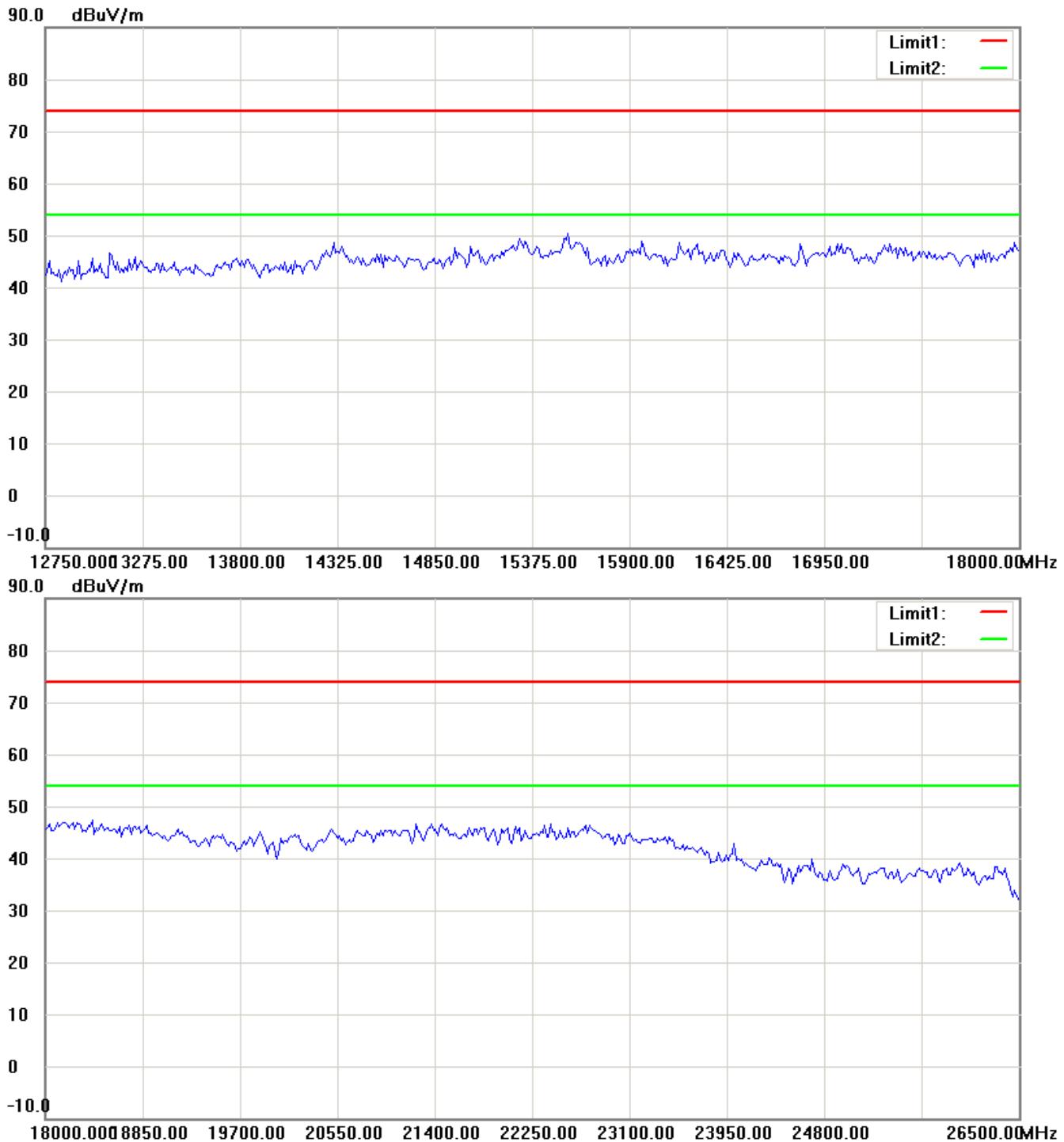
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

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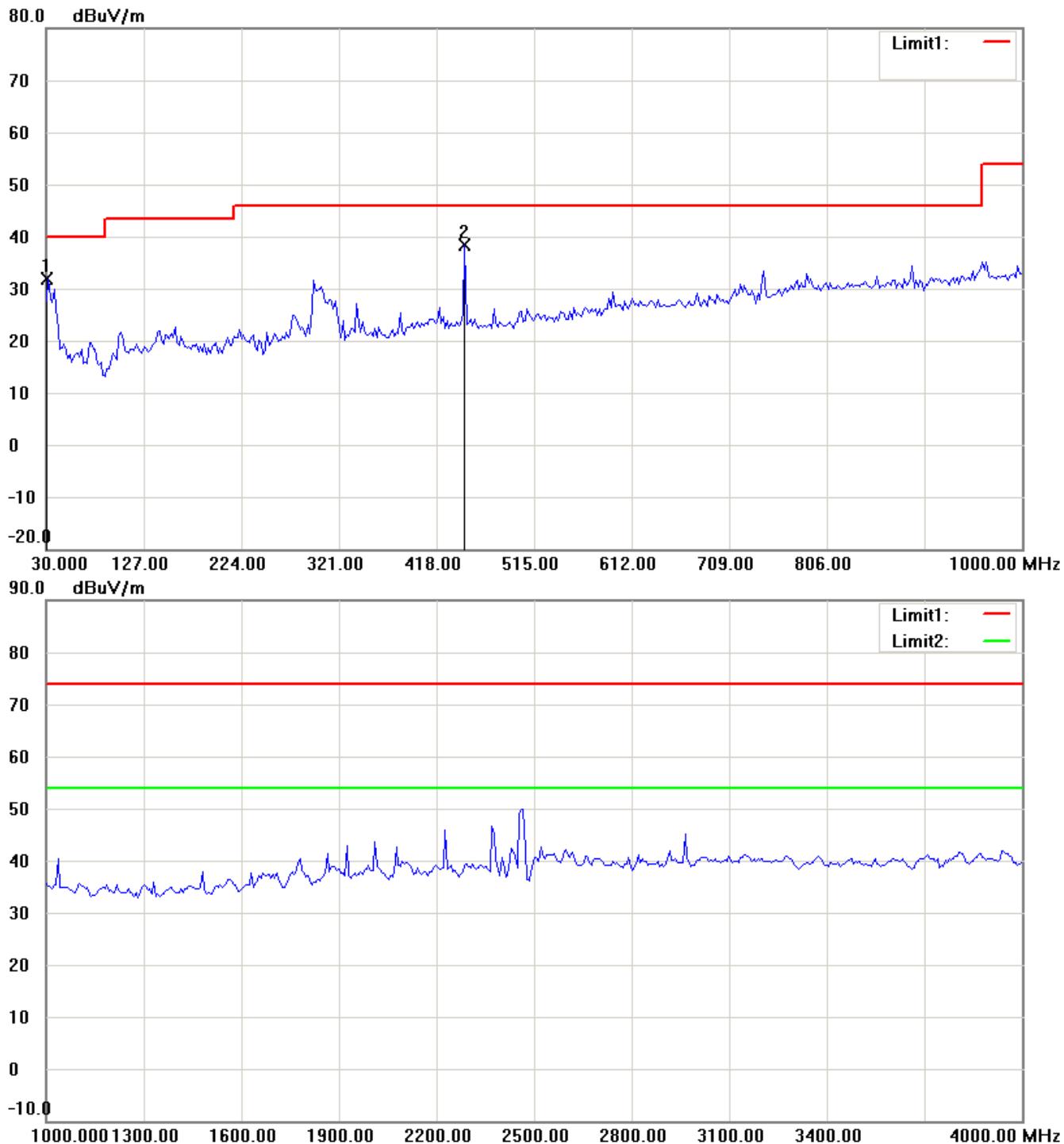
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

802.11b ch11 TX

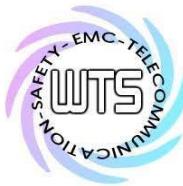
Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

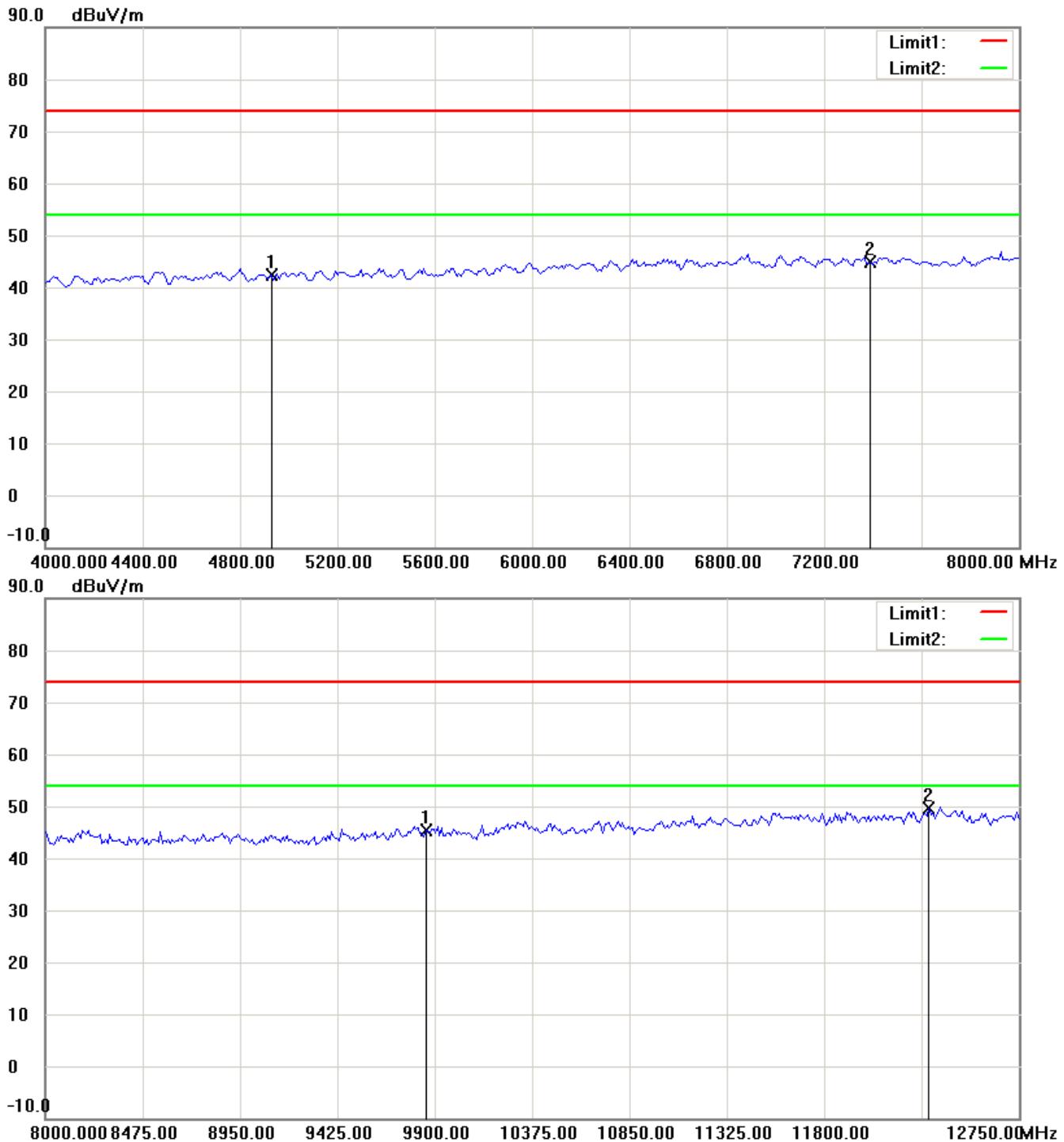
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

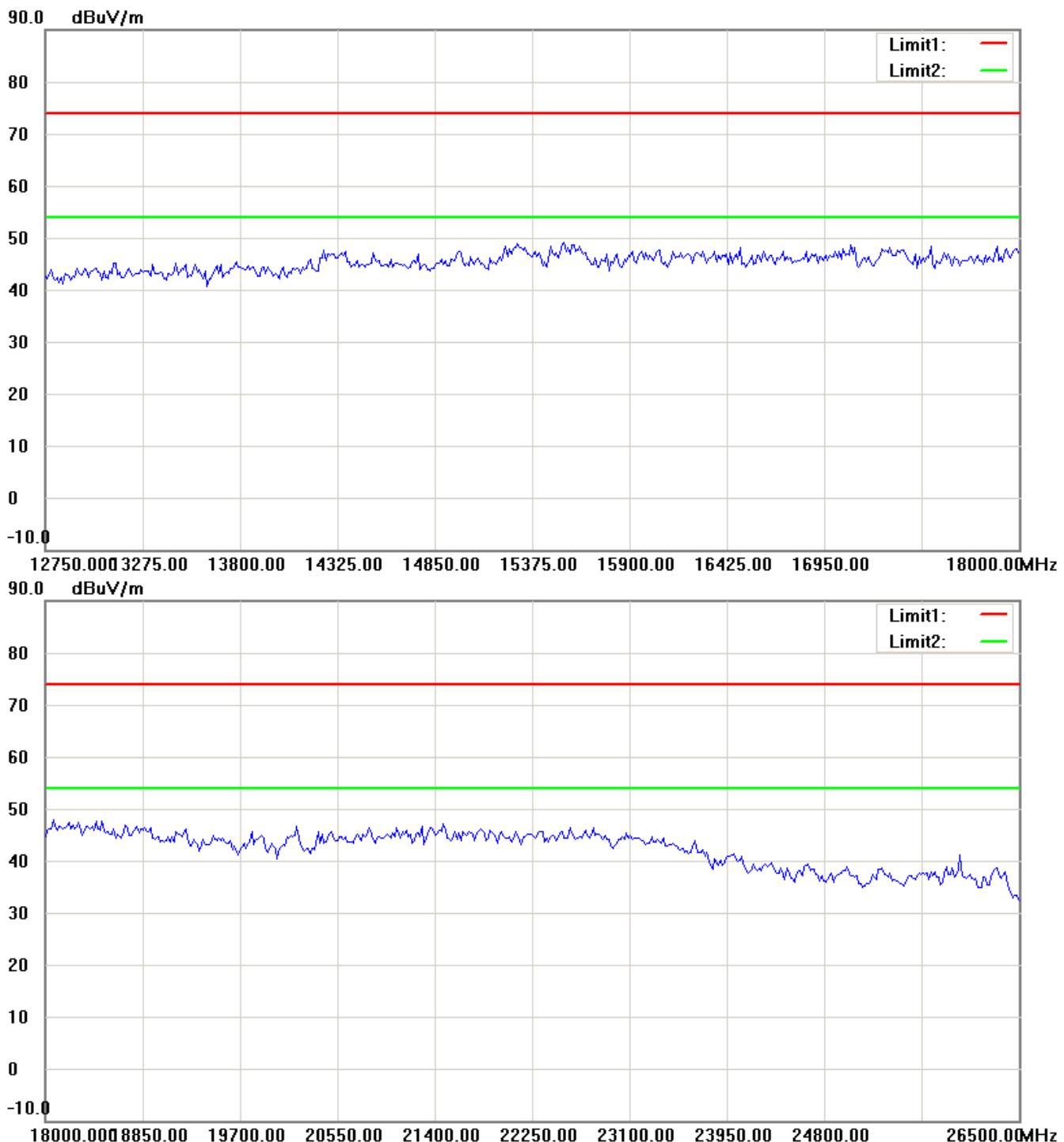
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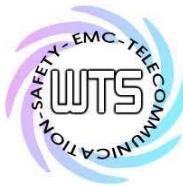
FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

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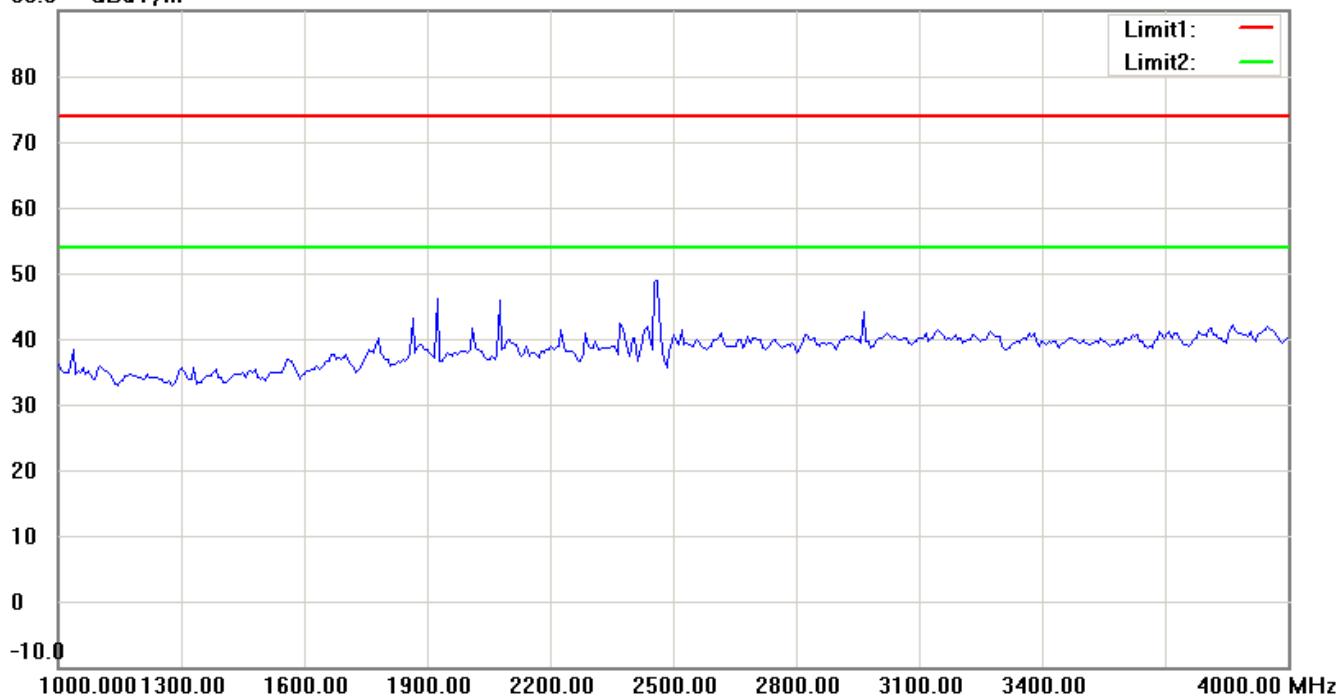
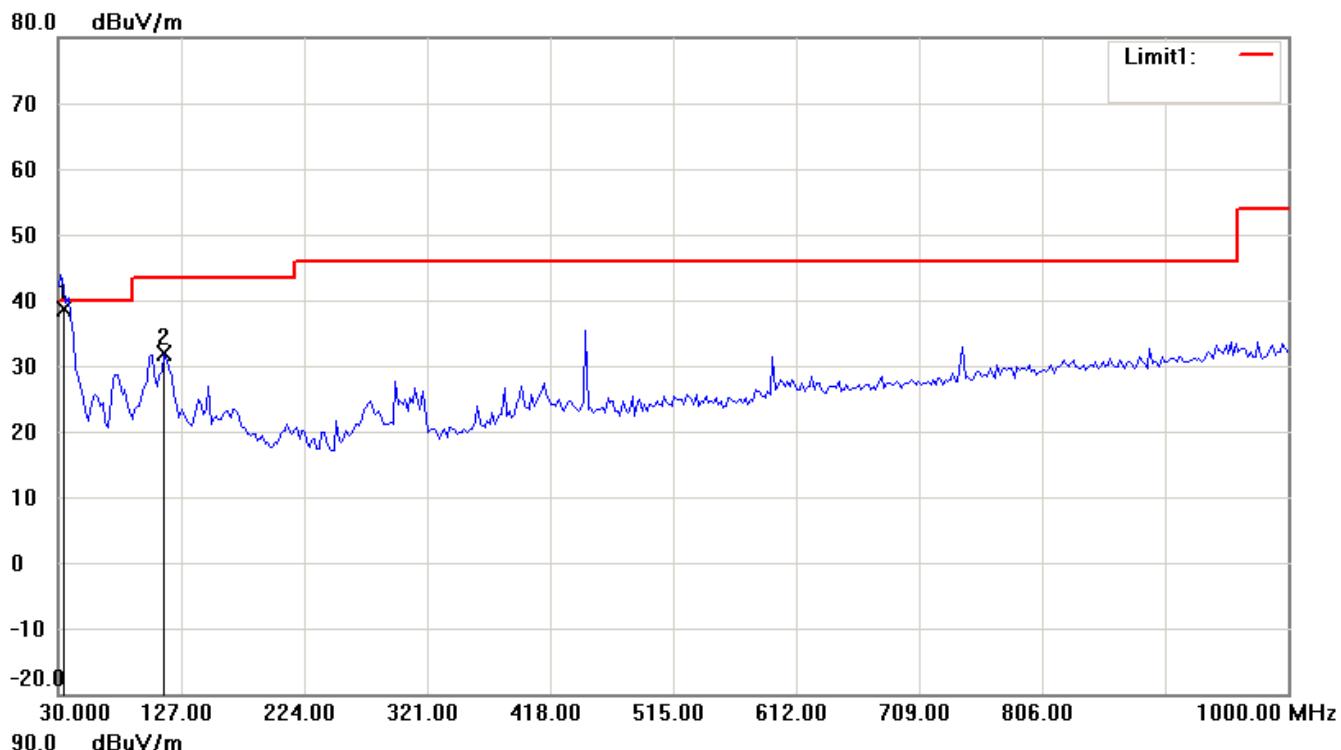


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

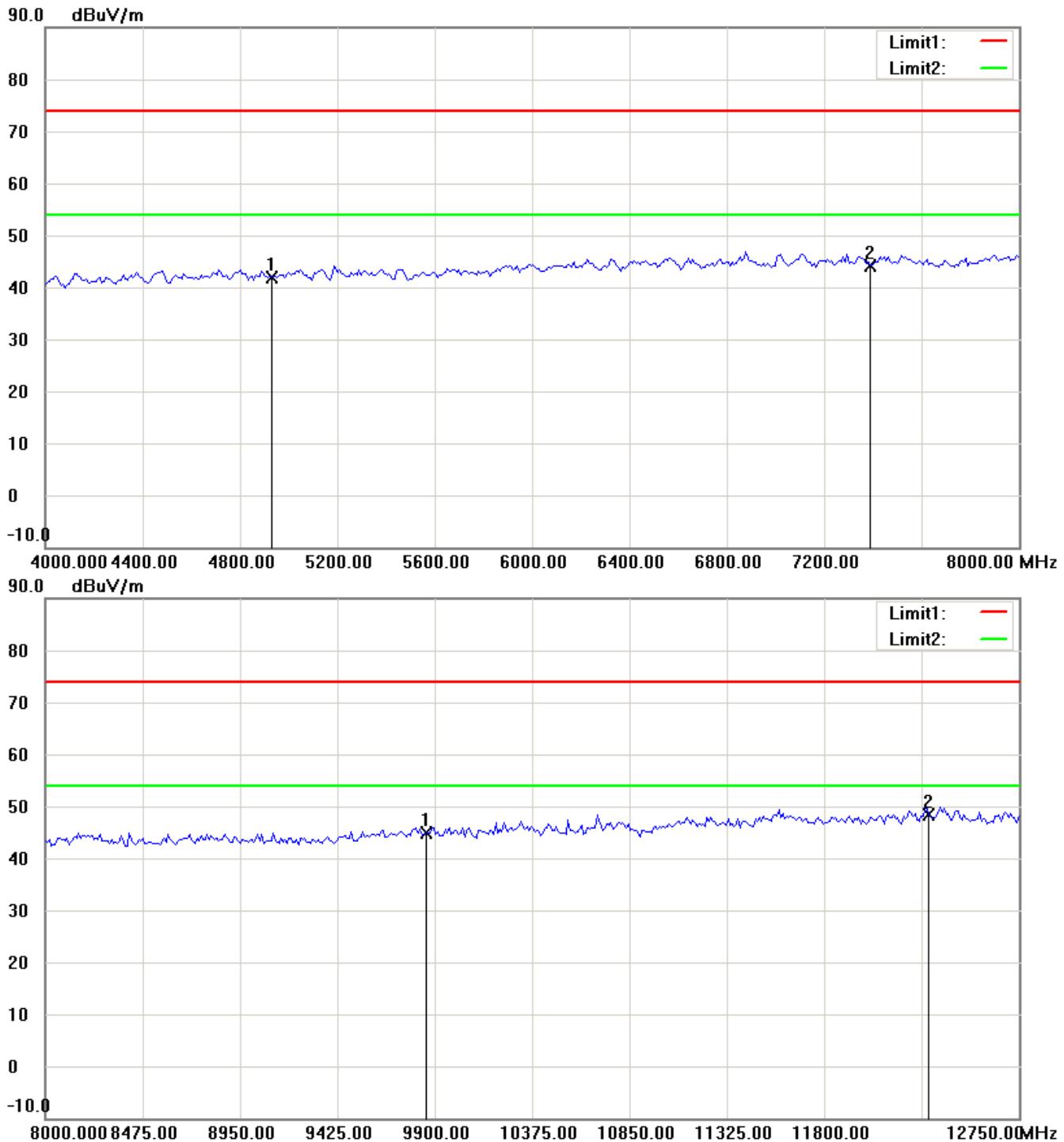
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

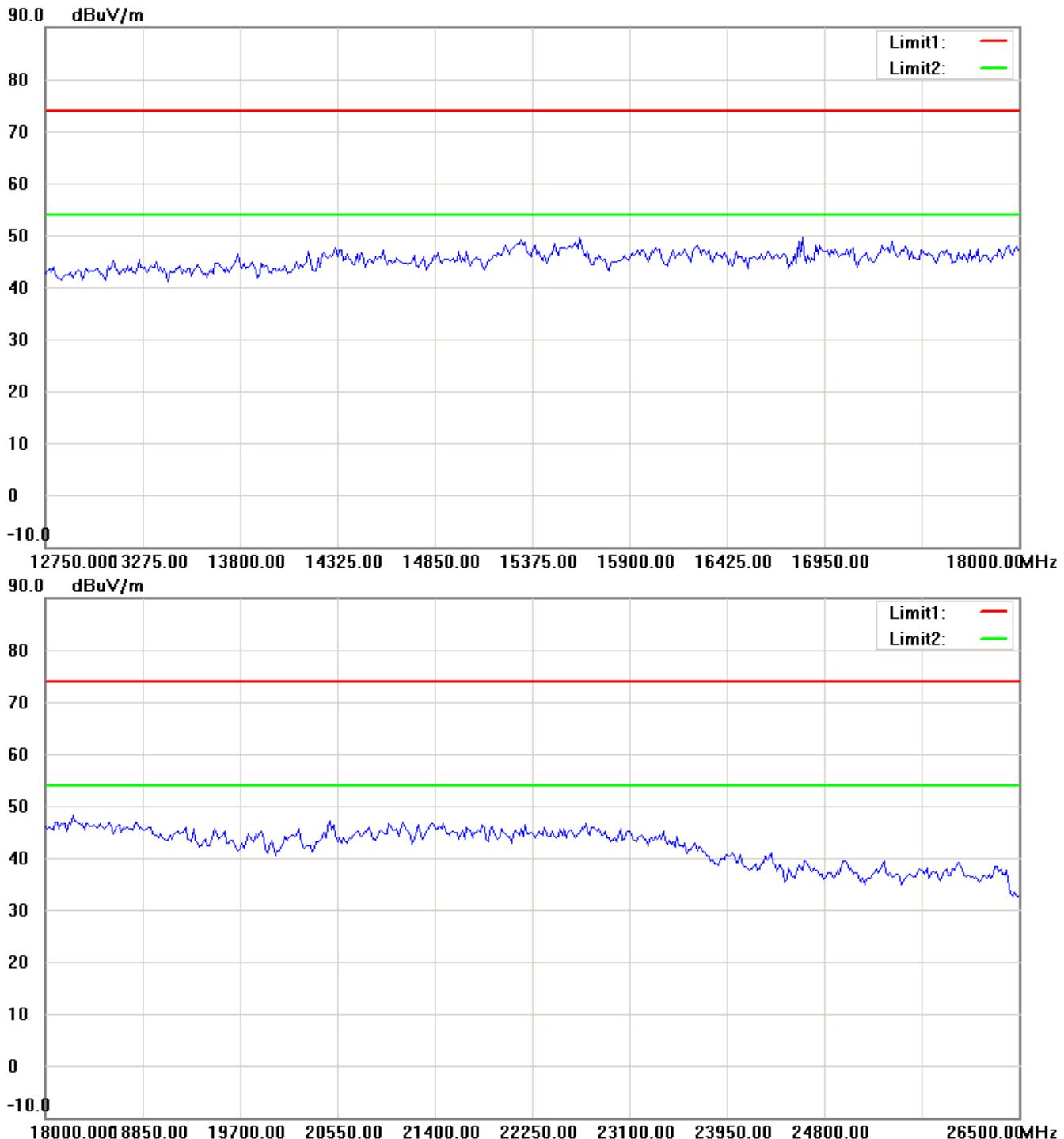
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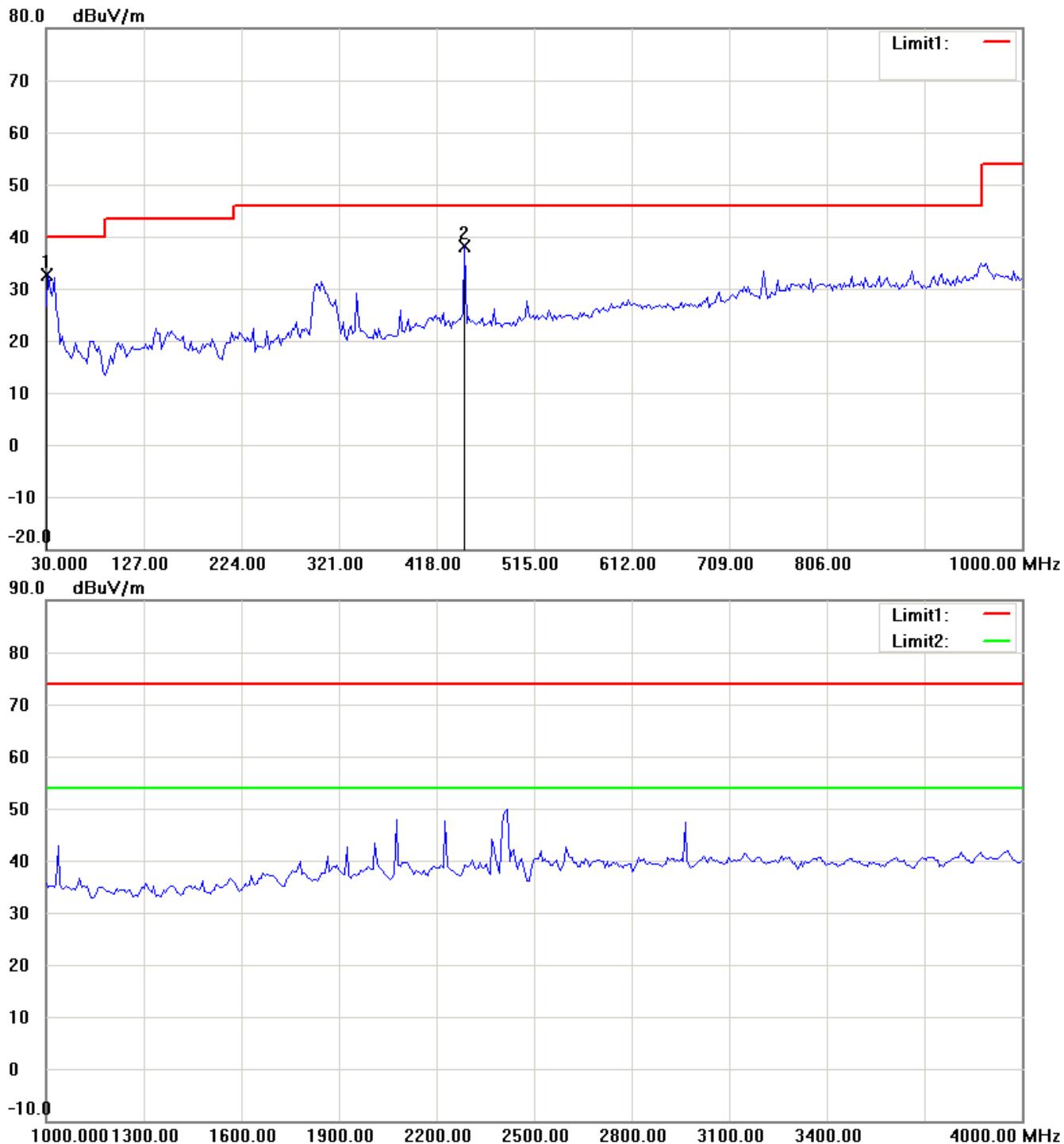
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

802.11g ch1 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

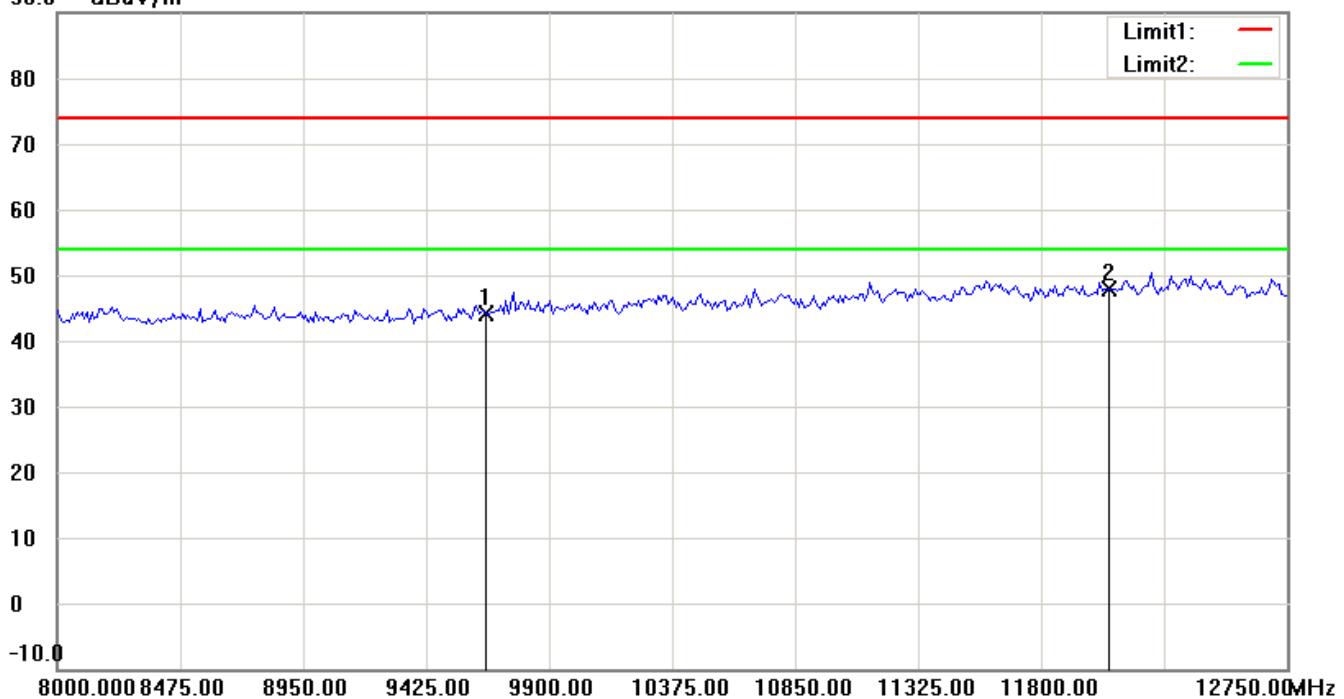
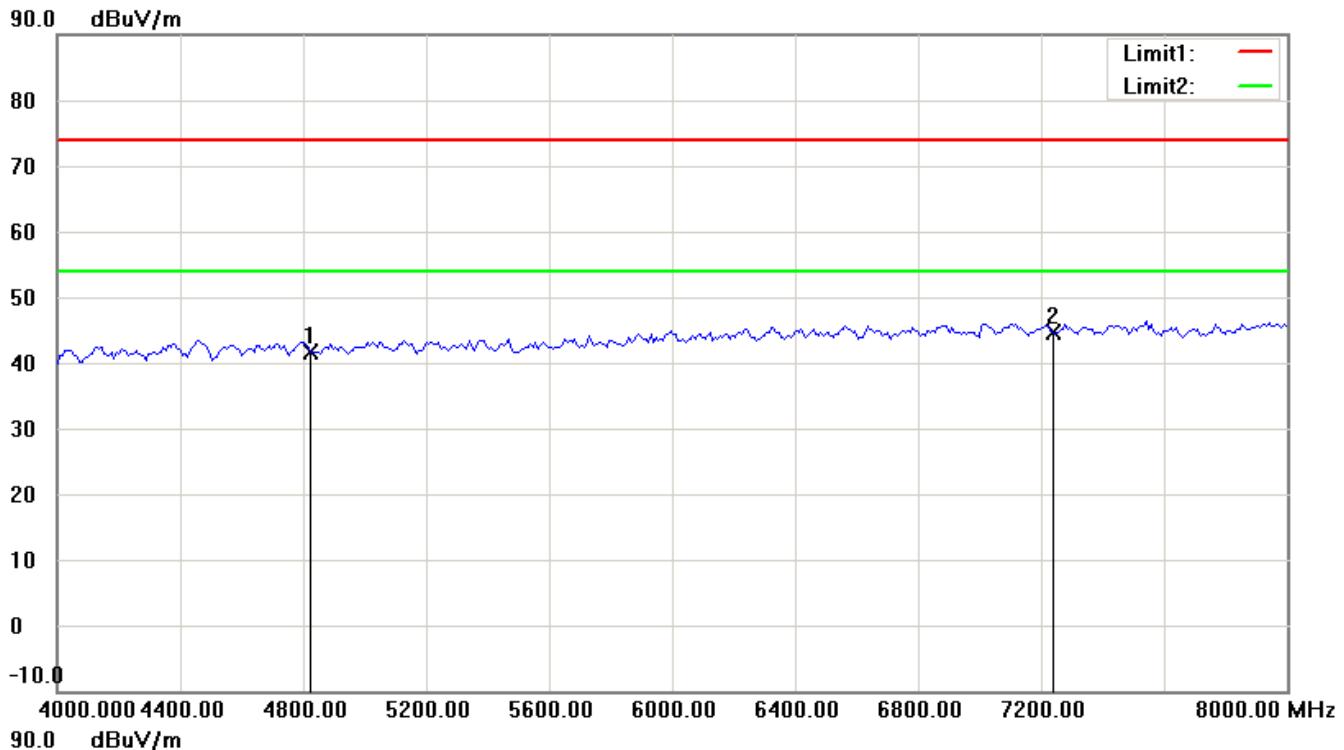
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Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

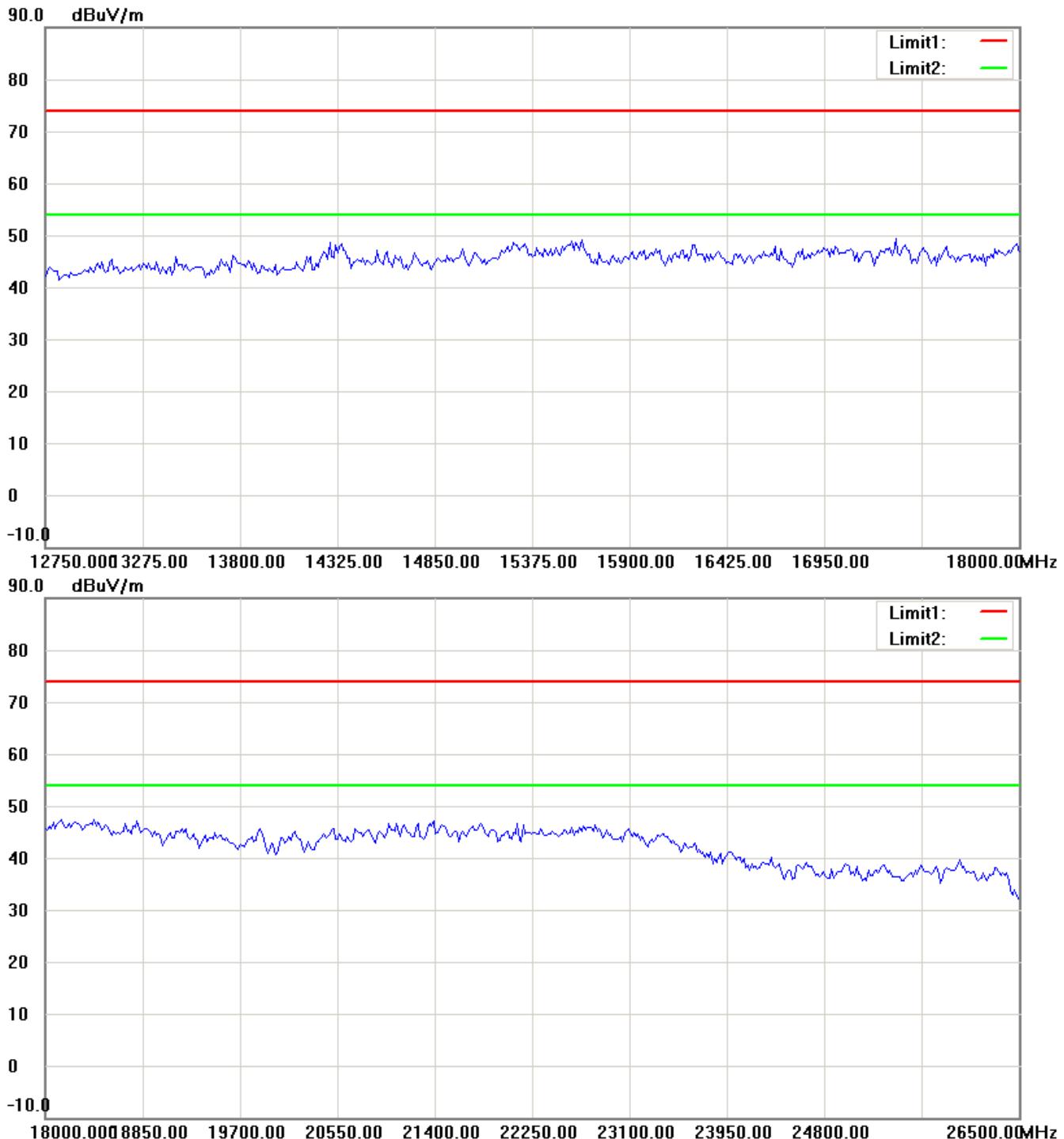
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Up Line: Peak Limit Line Down Line: Ave Limit Line

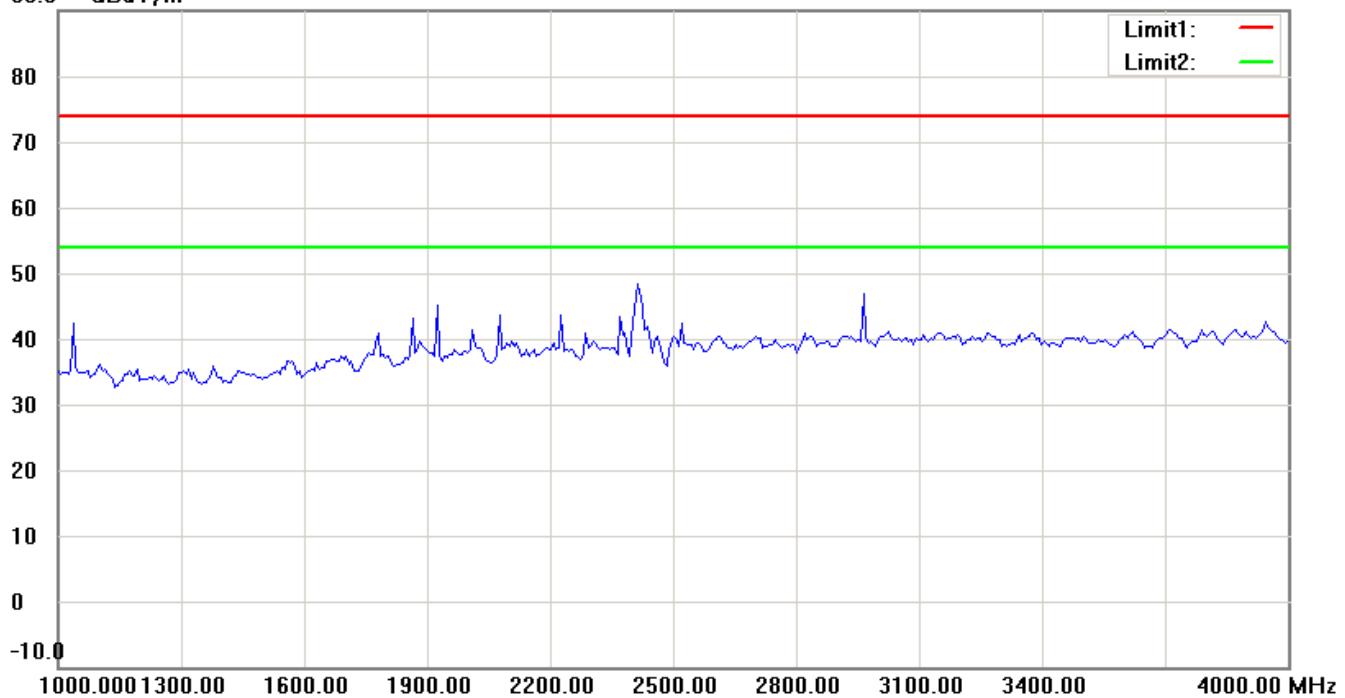
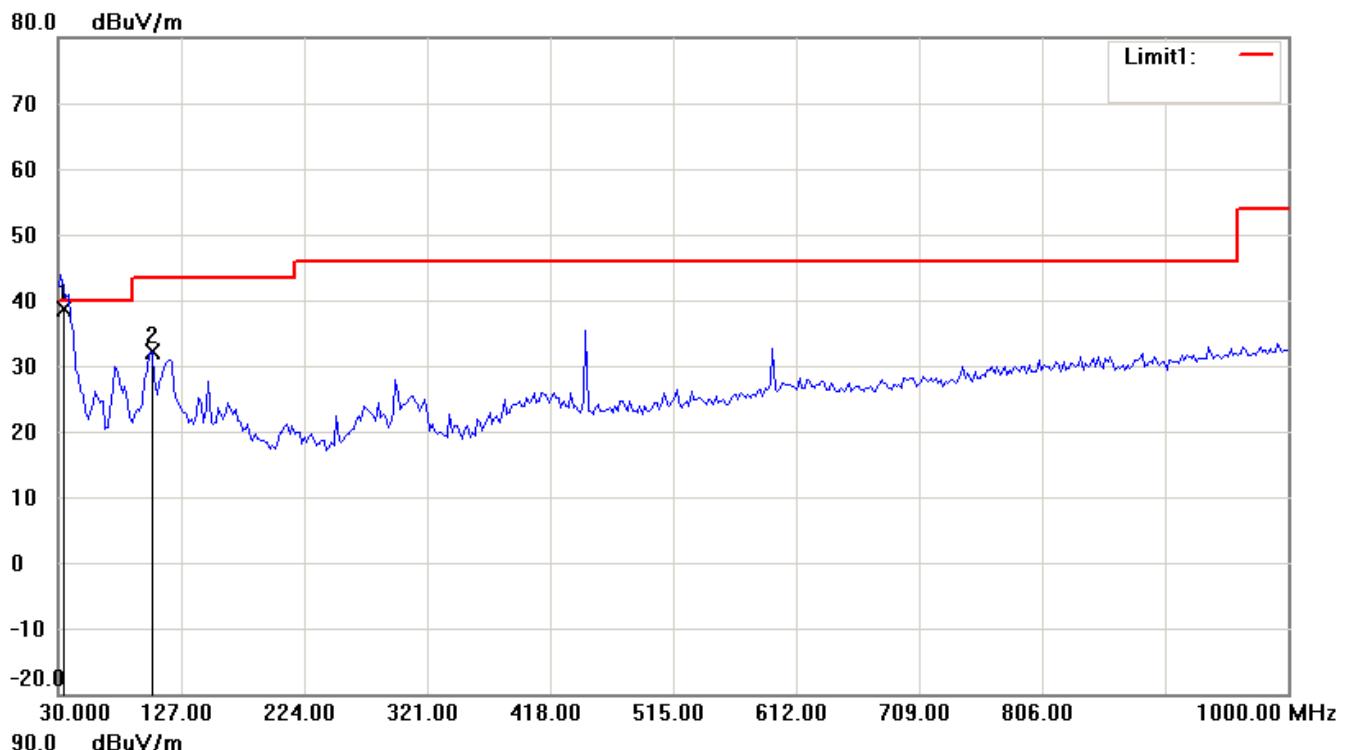
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

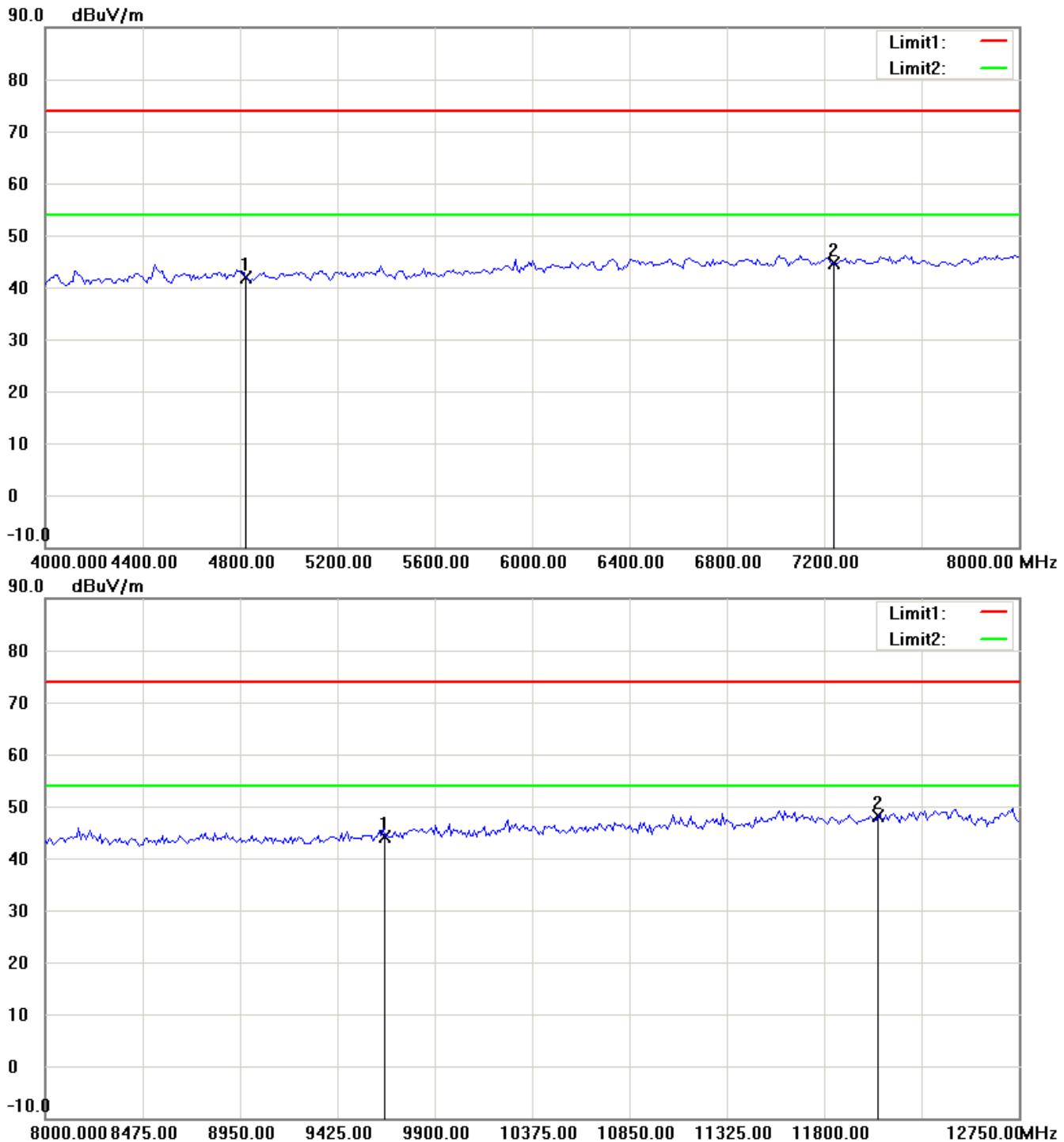
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Note:

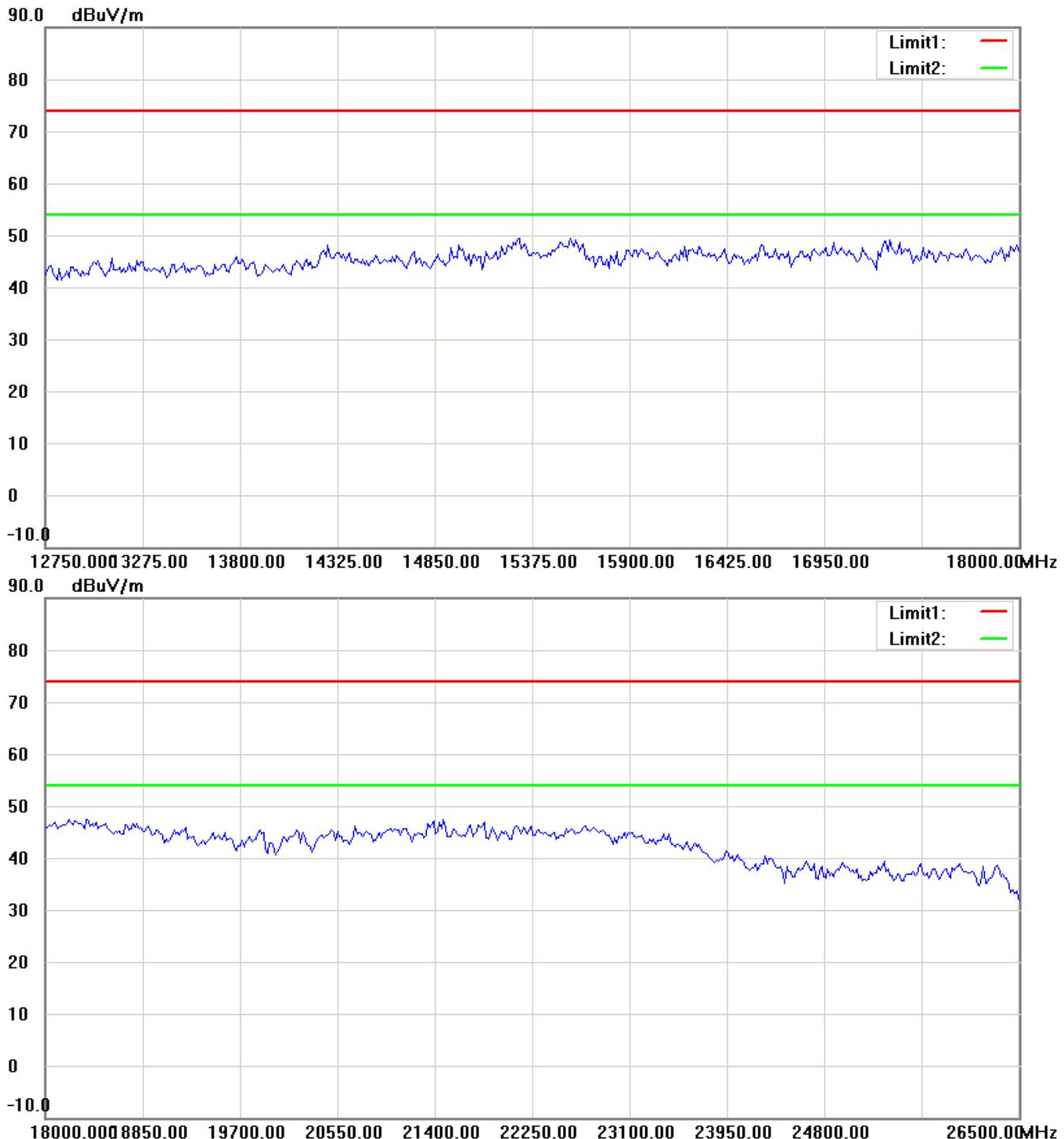
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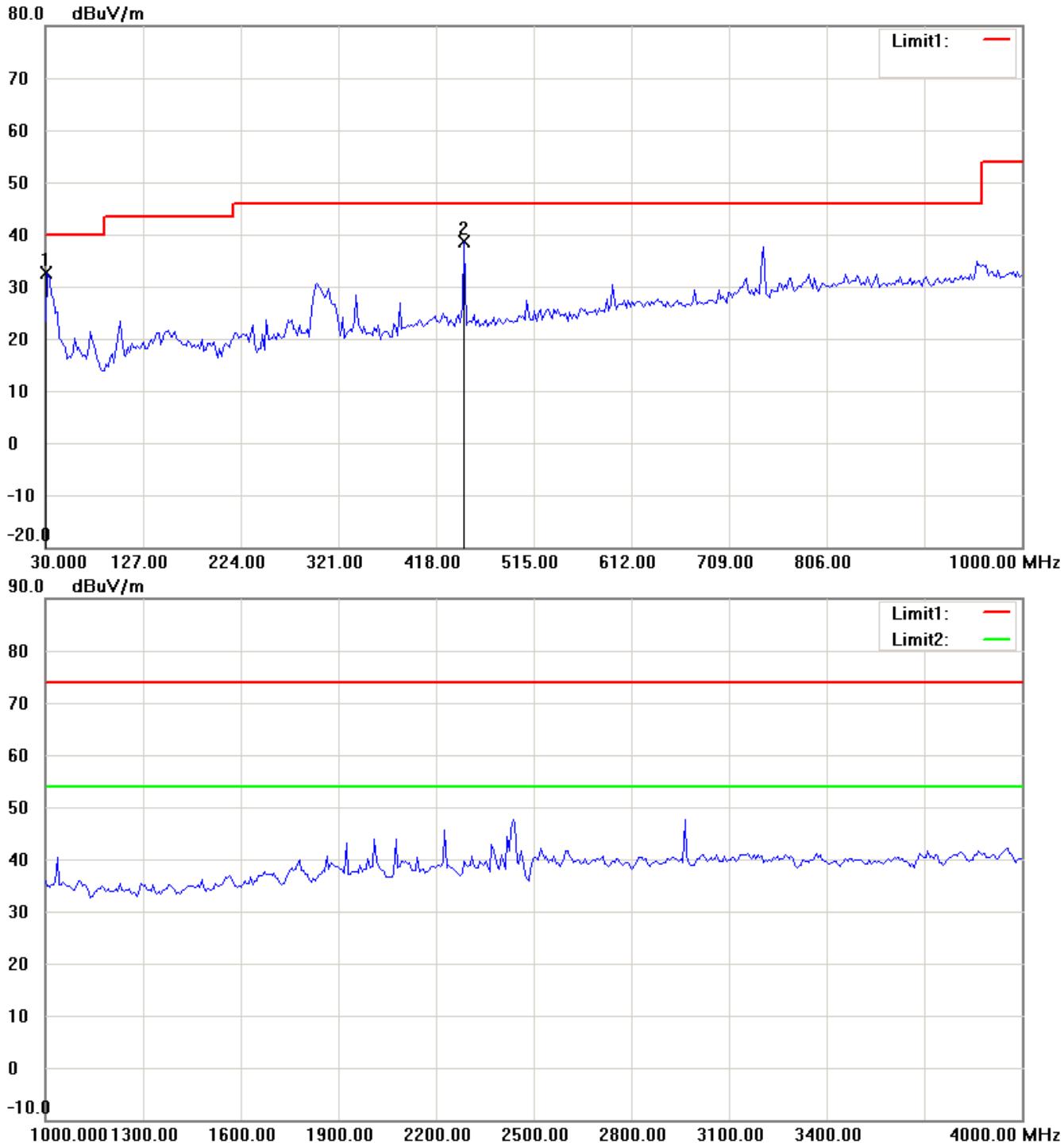
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

802.11g ch6 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

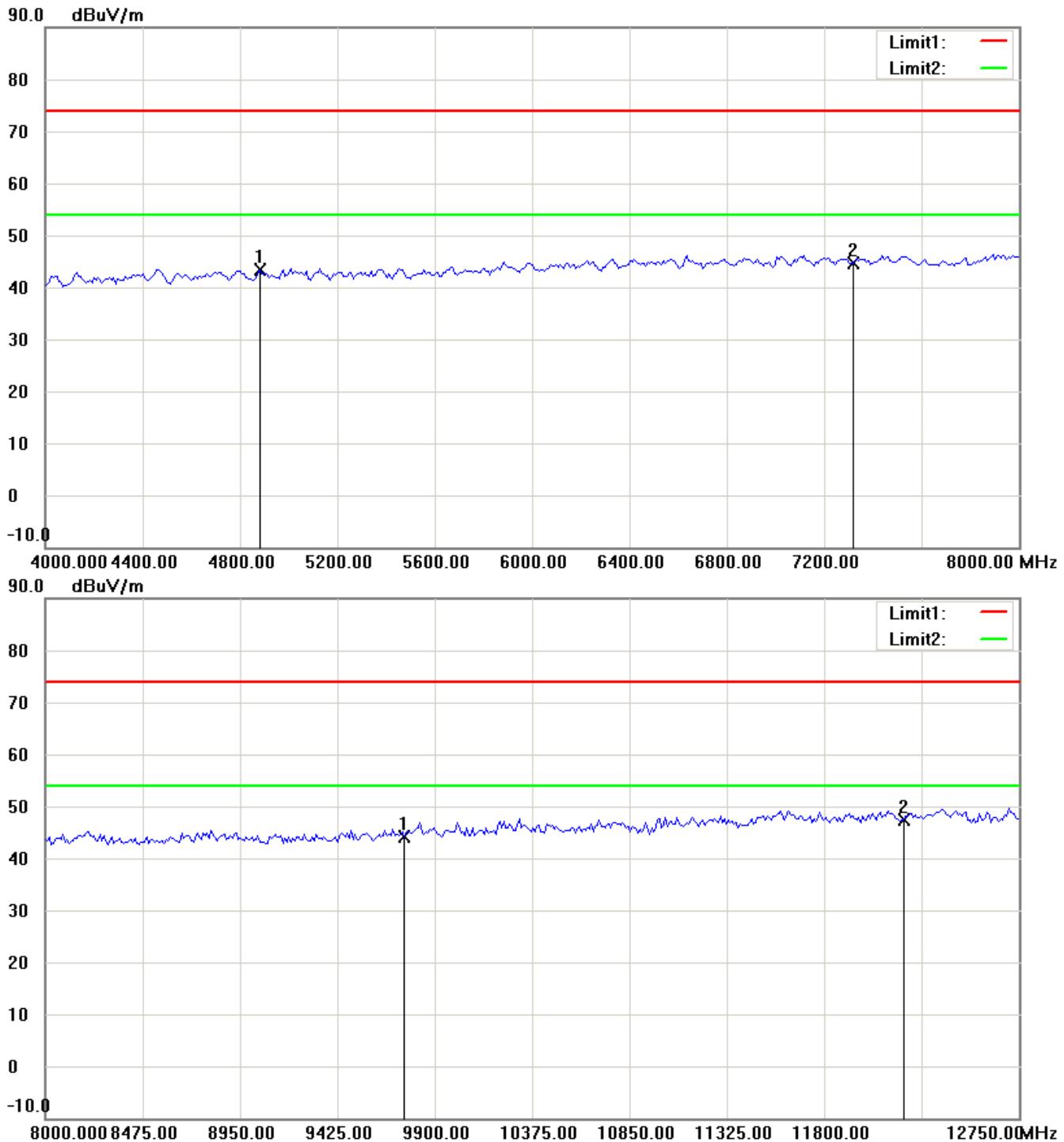
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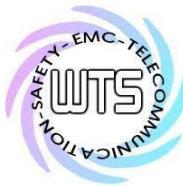
FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

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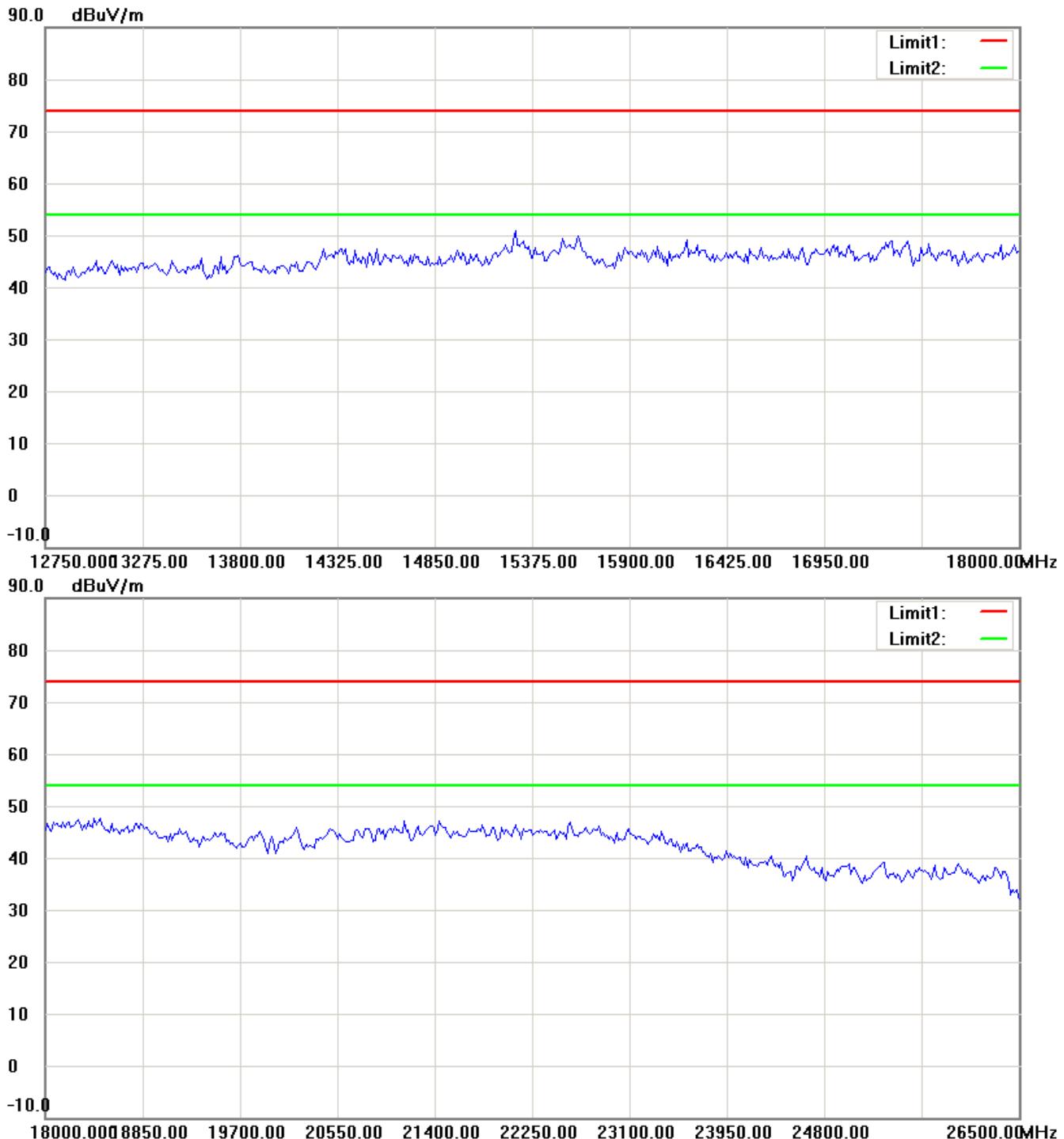
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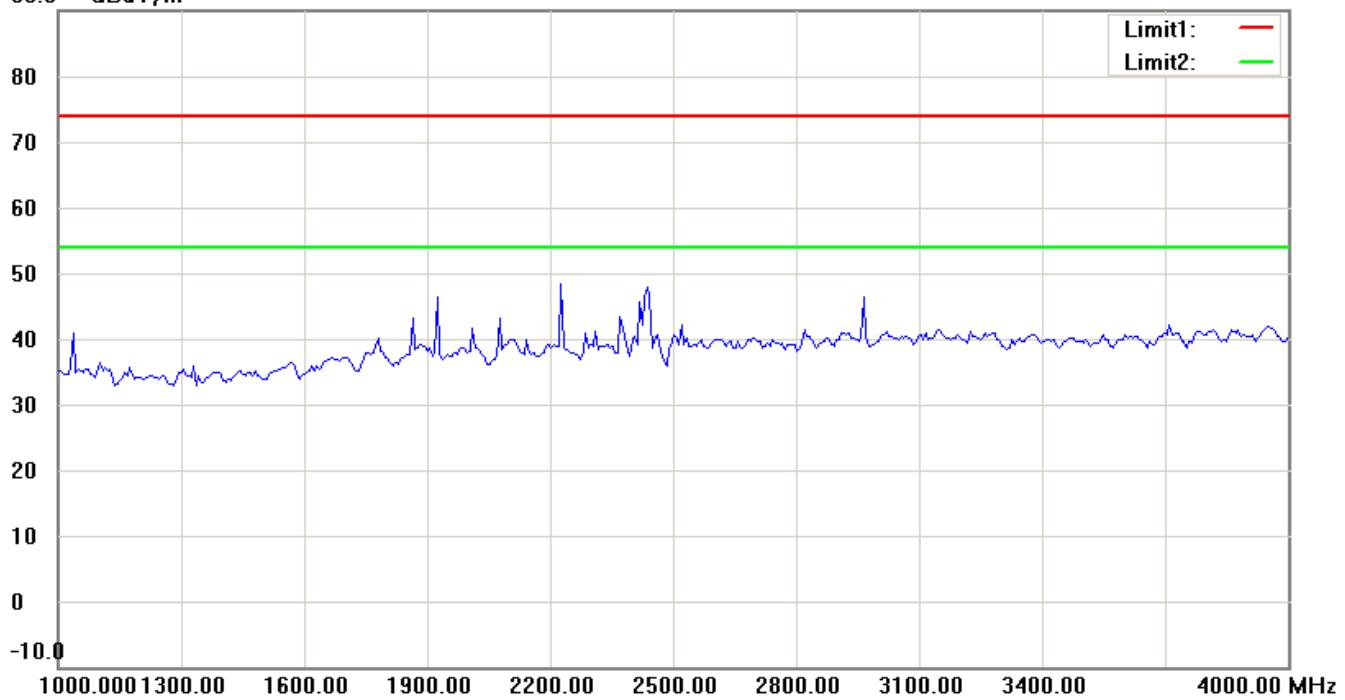
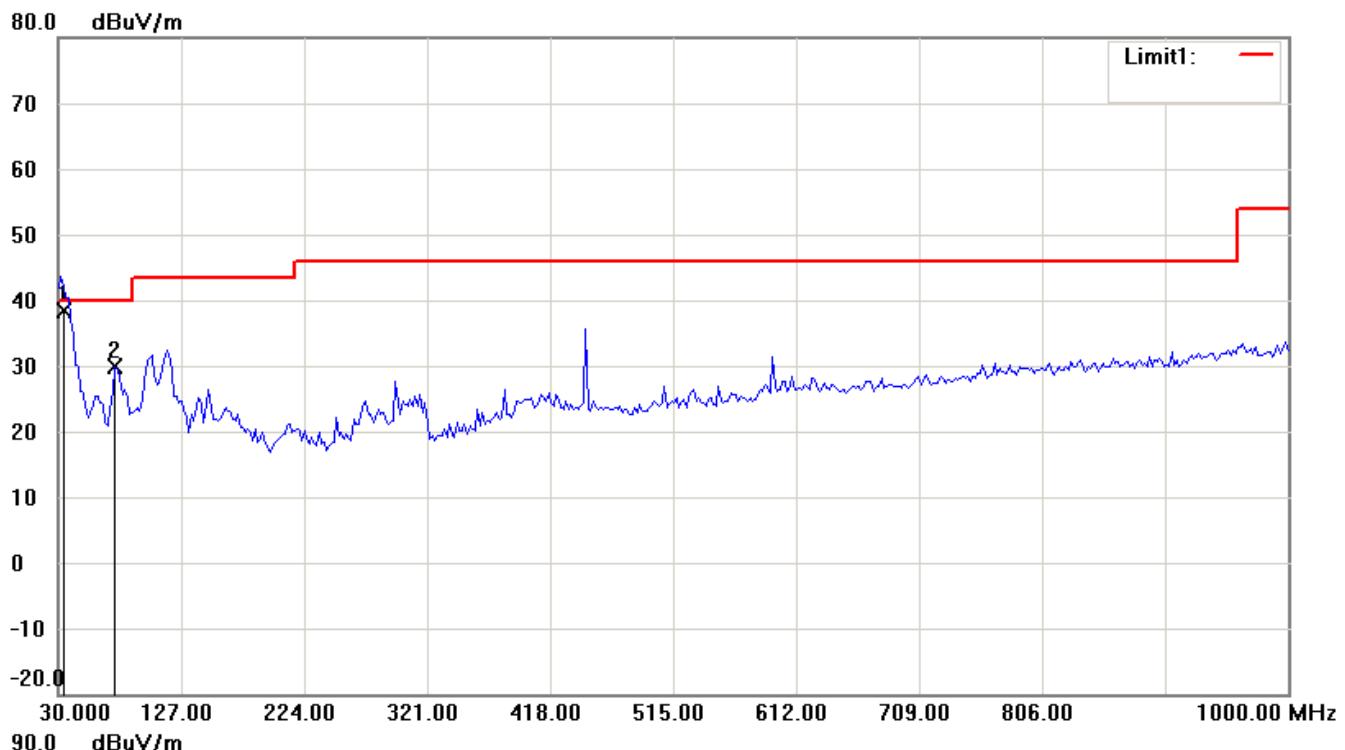


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

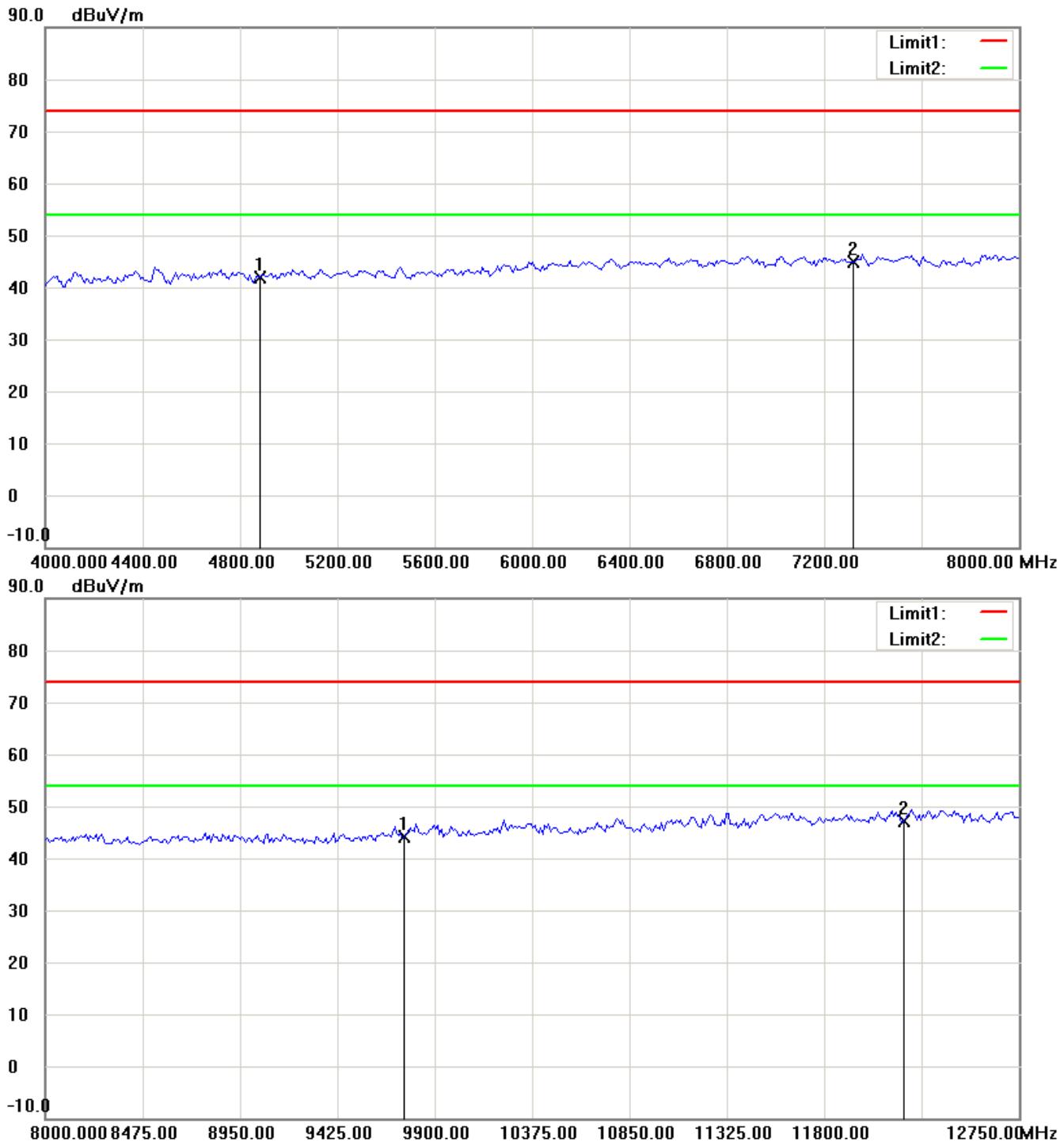
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FCC ID: 2AA4J-W6M2130813478



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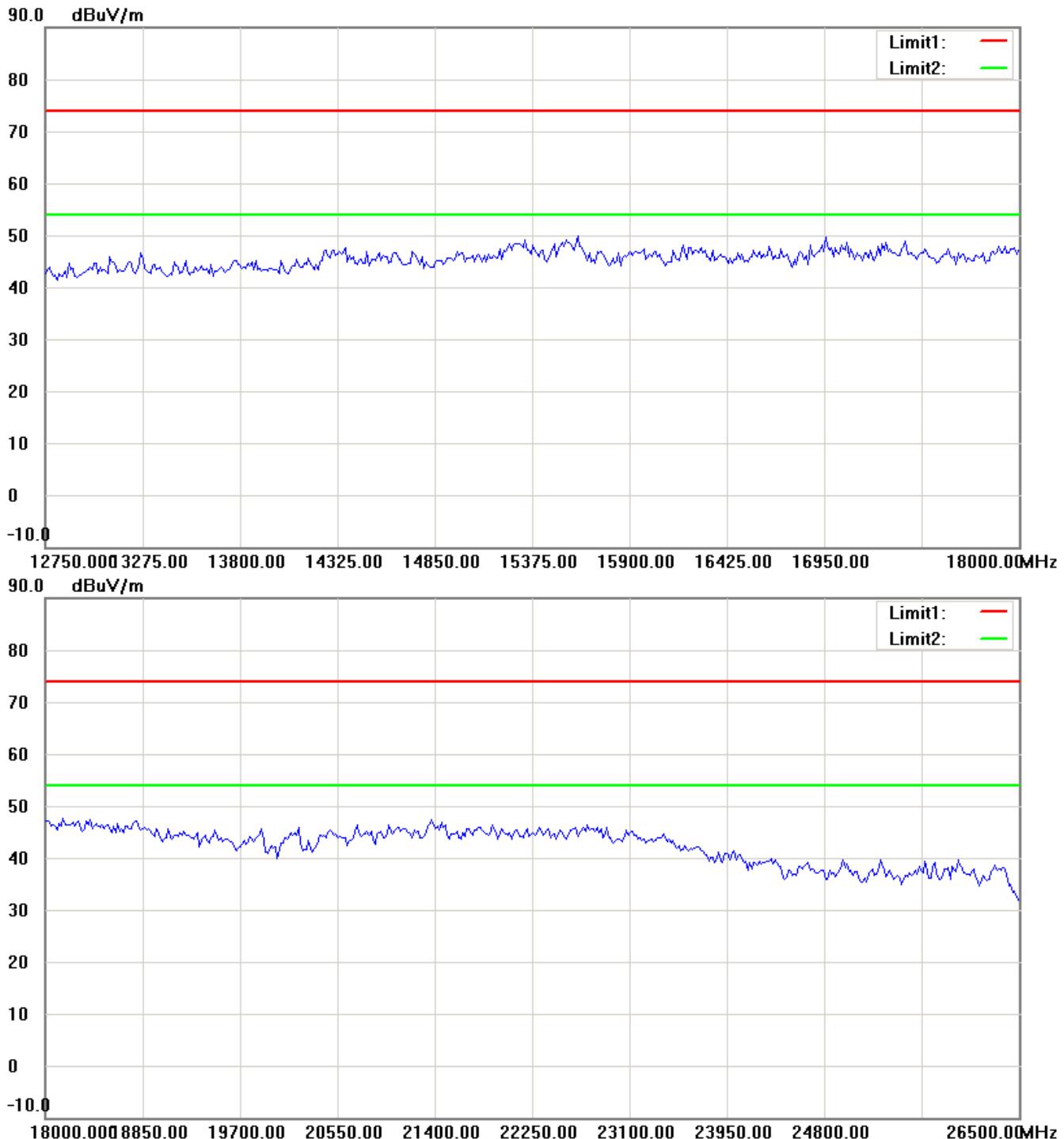
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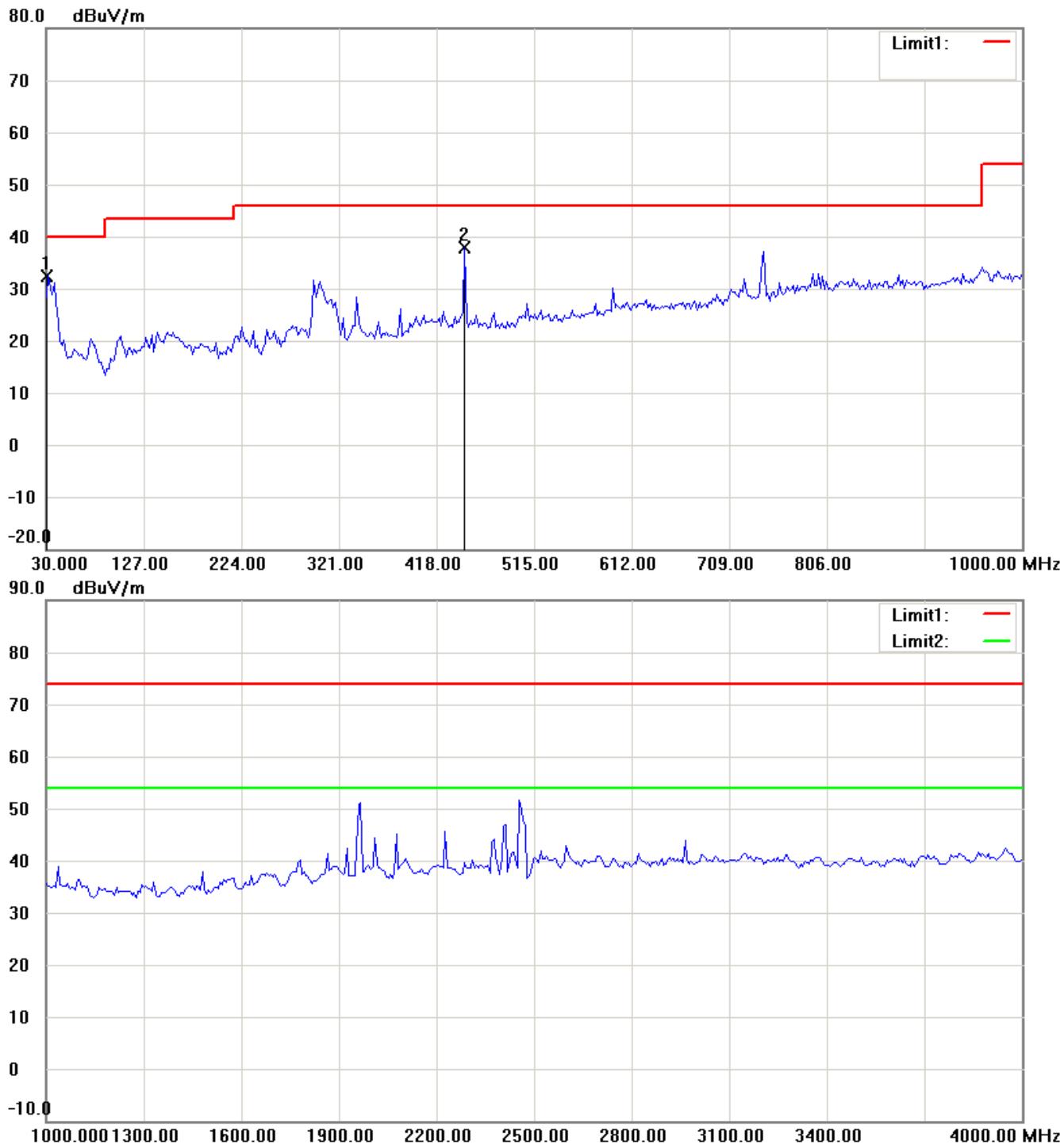
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

802.11g ch11 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

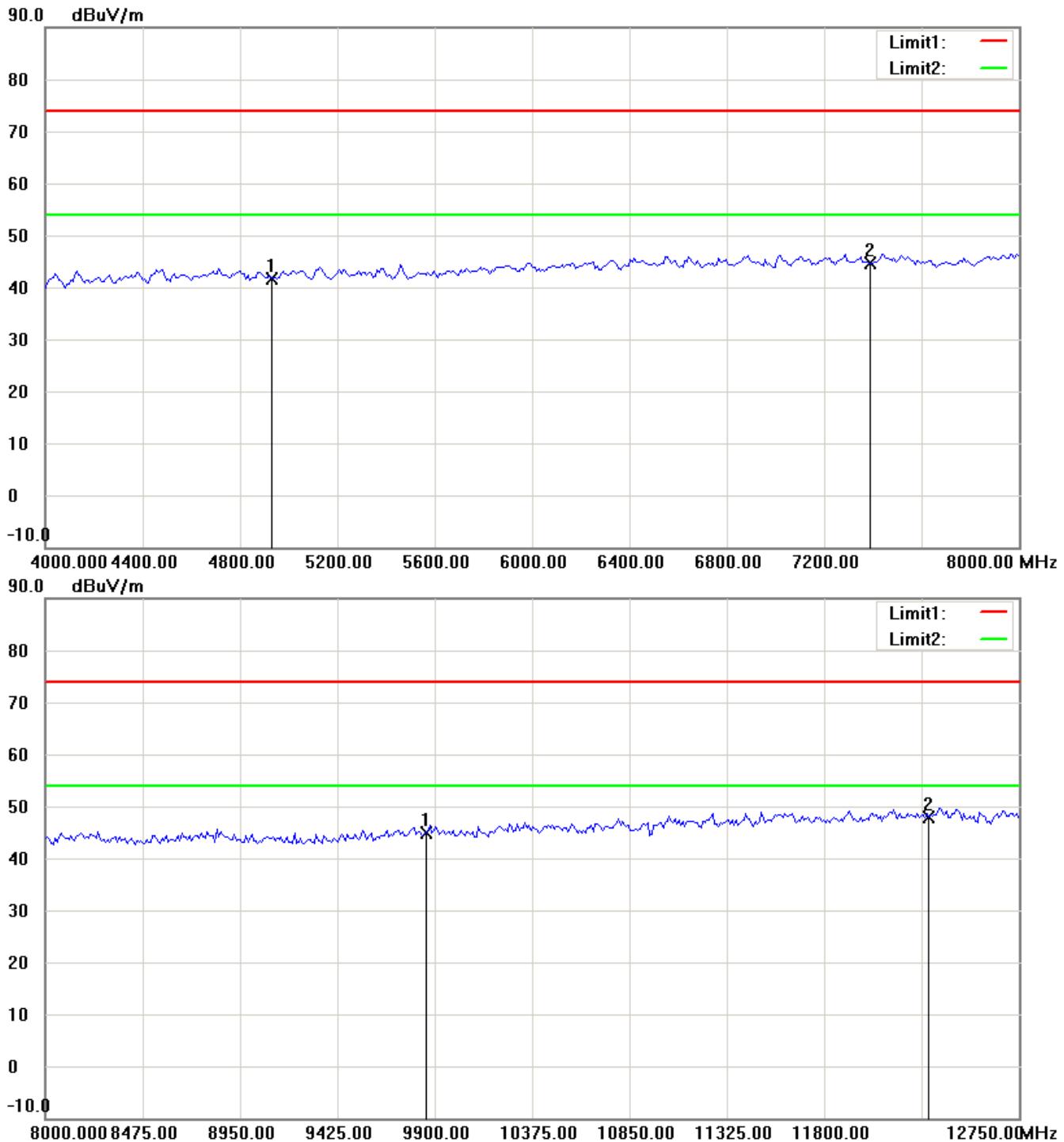
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

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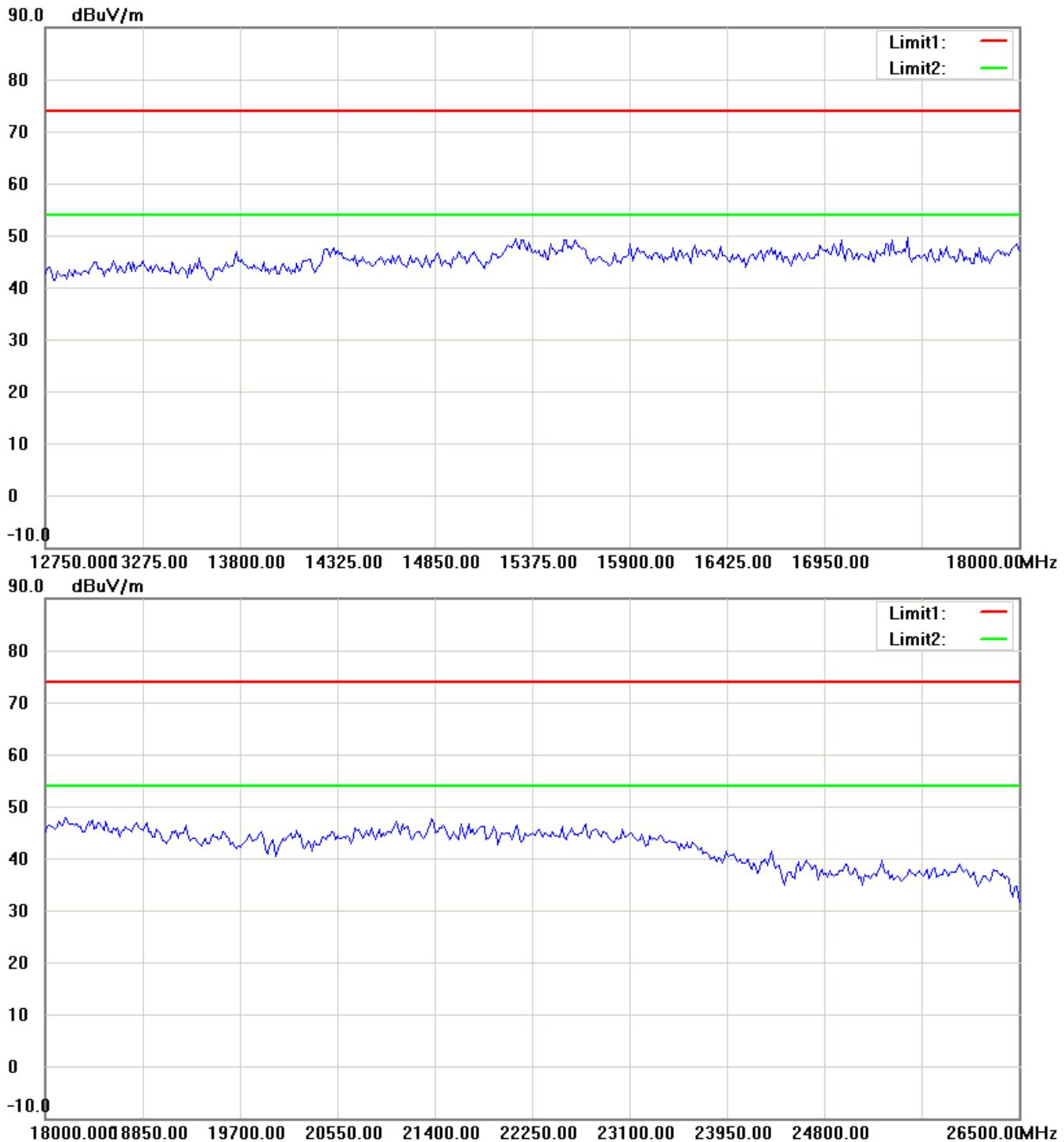
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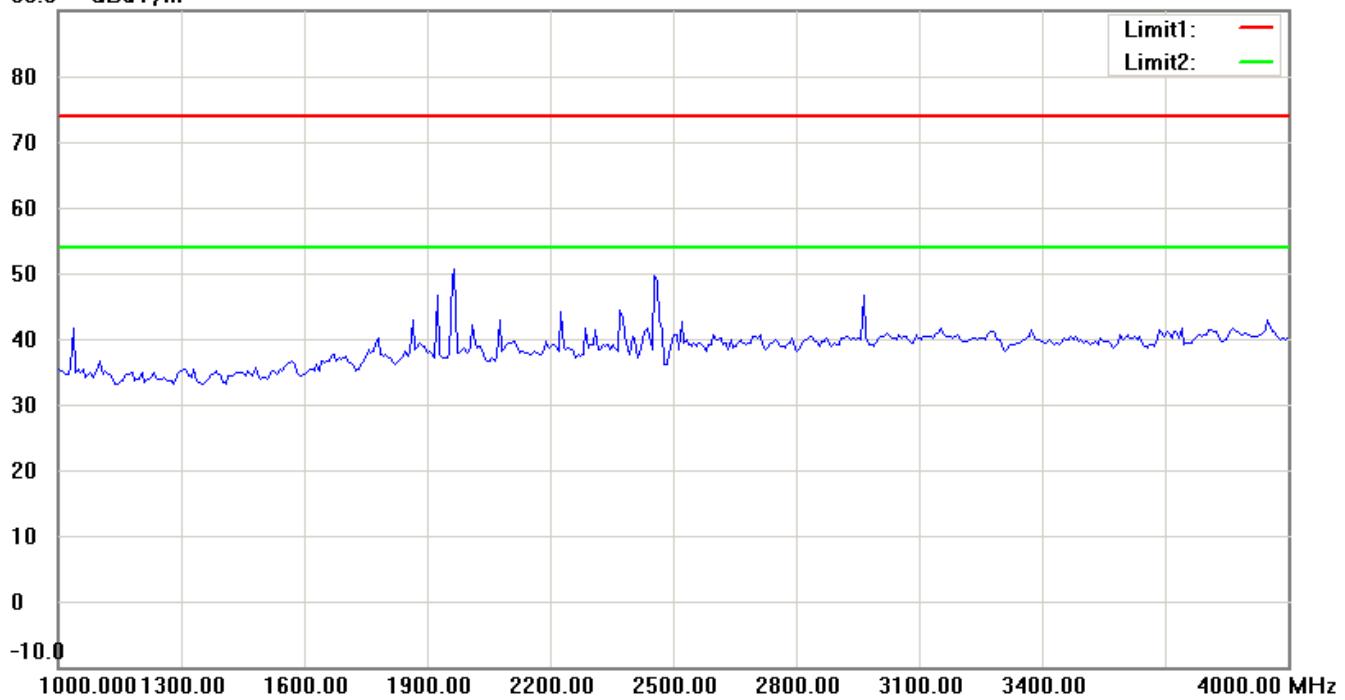
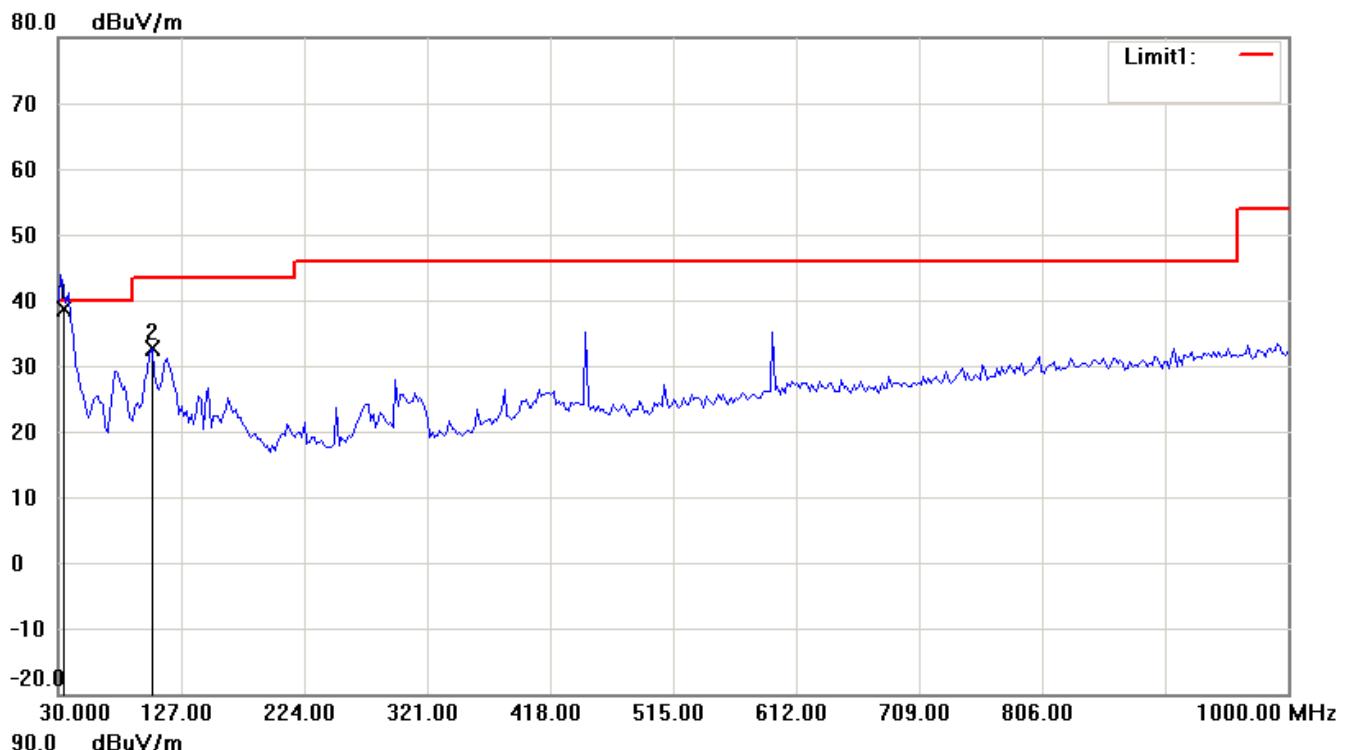


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

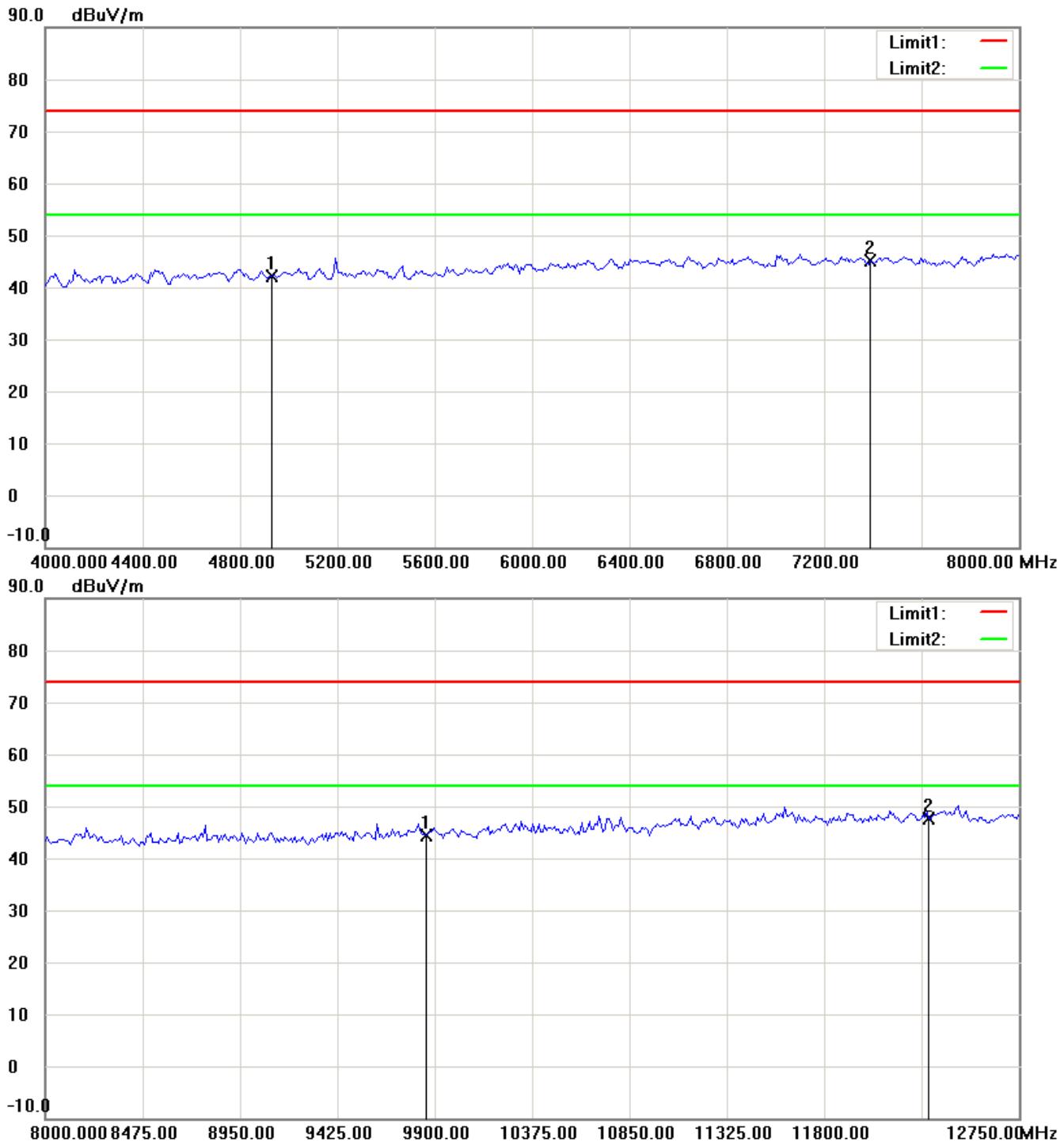
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

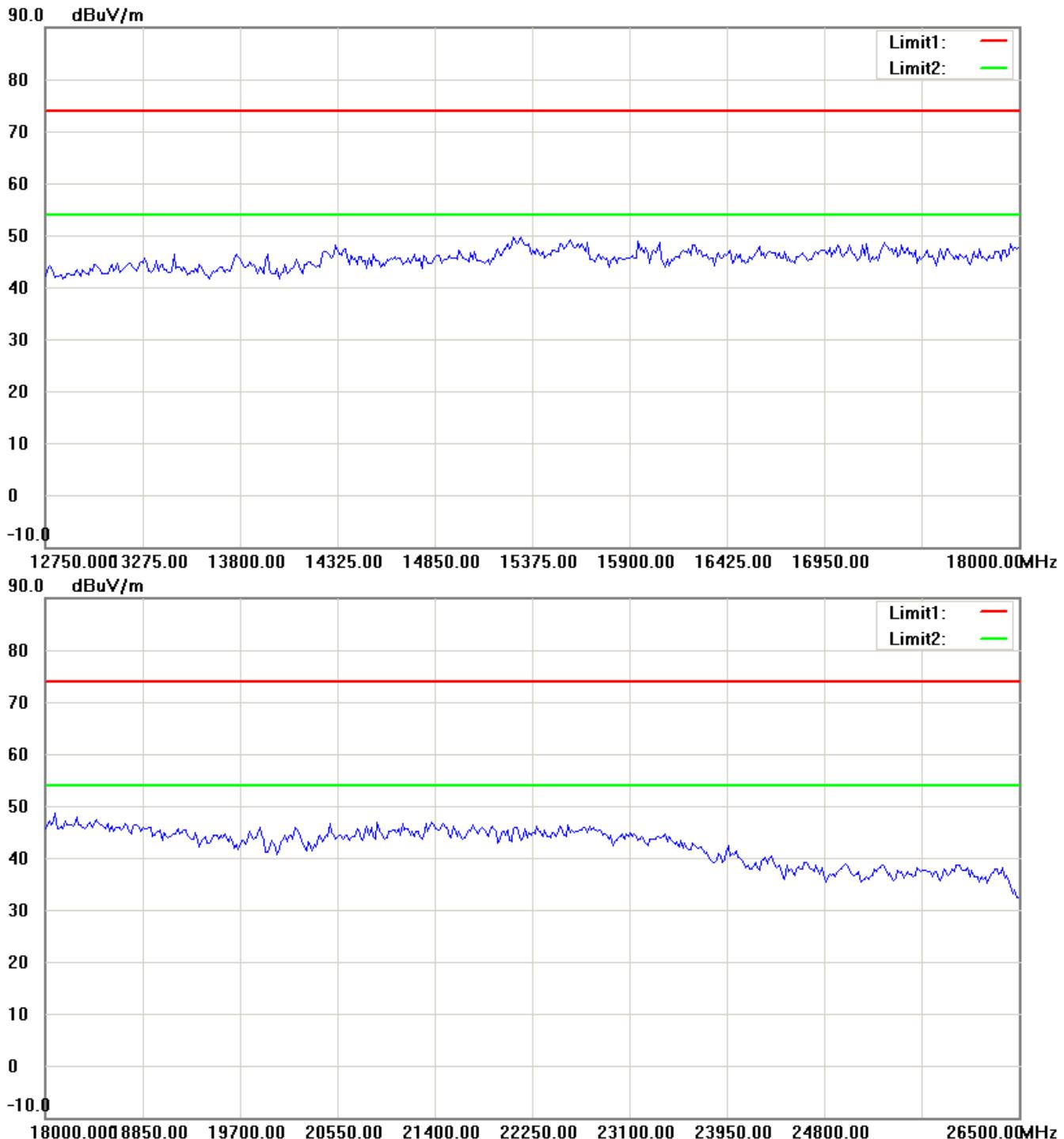
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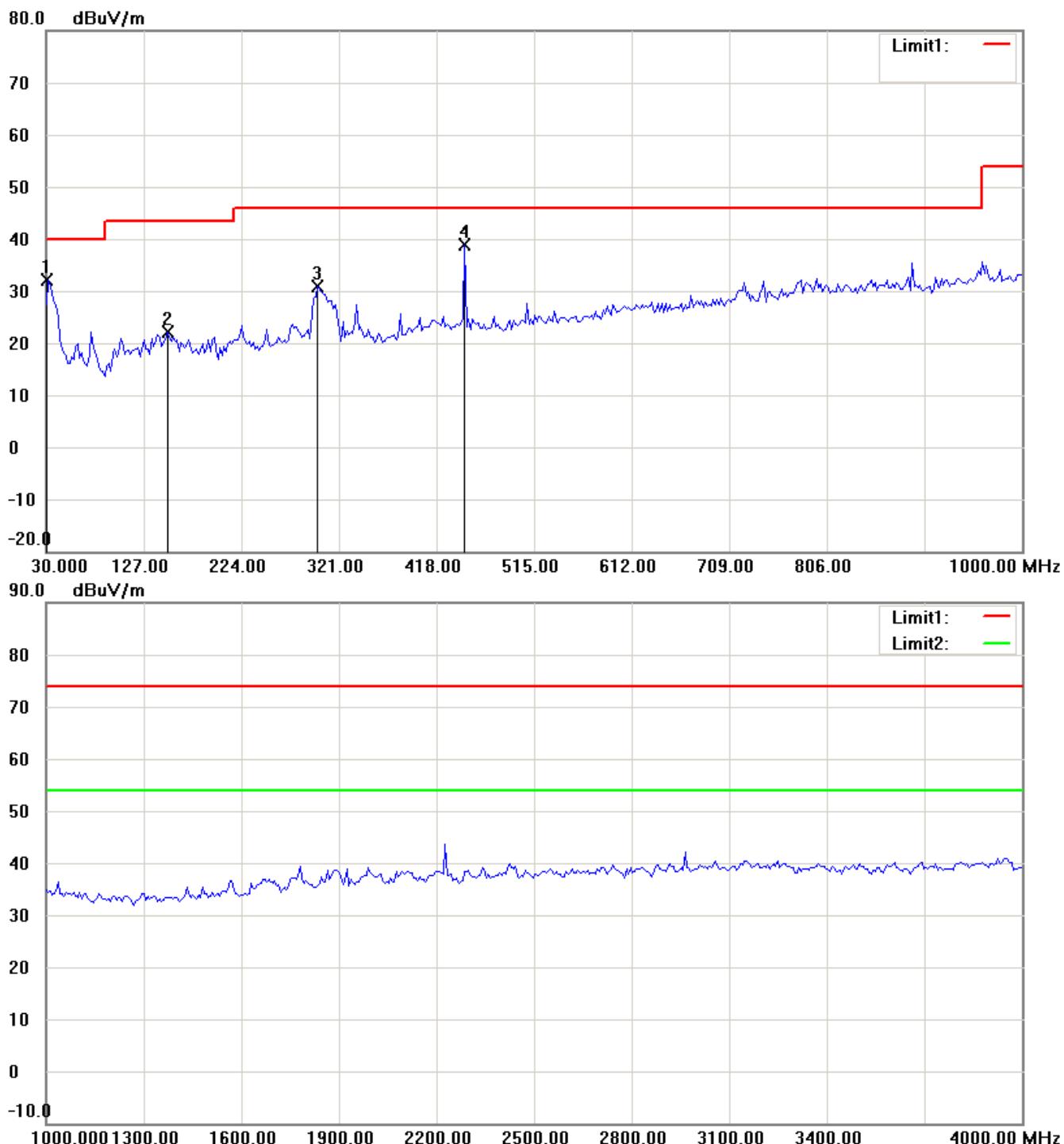
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

WLAN 5.745 ~ 5.825 GHz

802.11a ch149 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

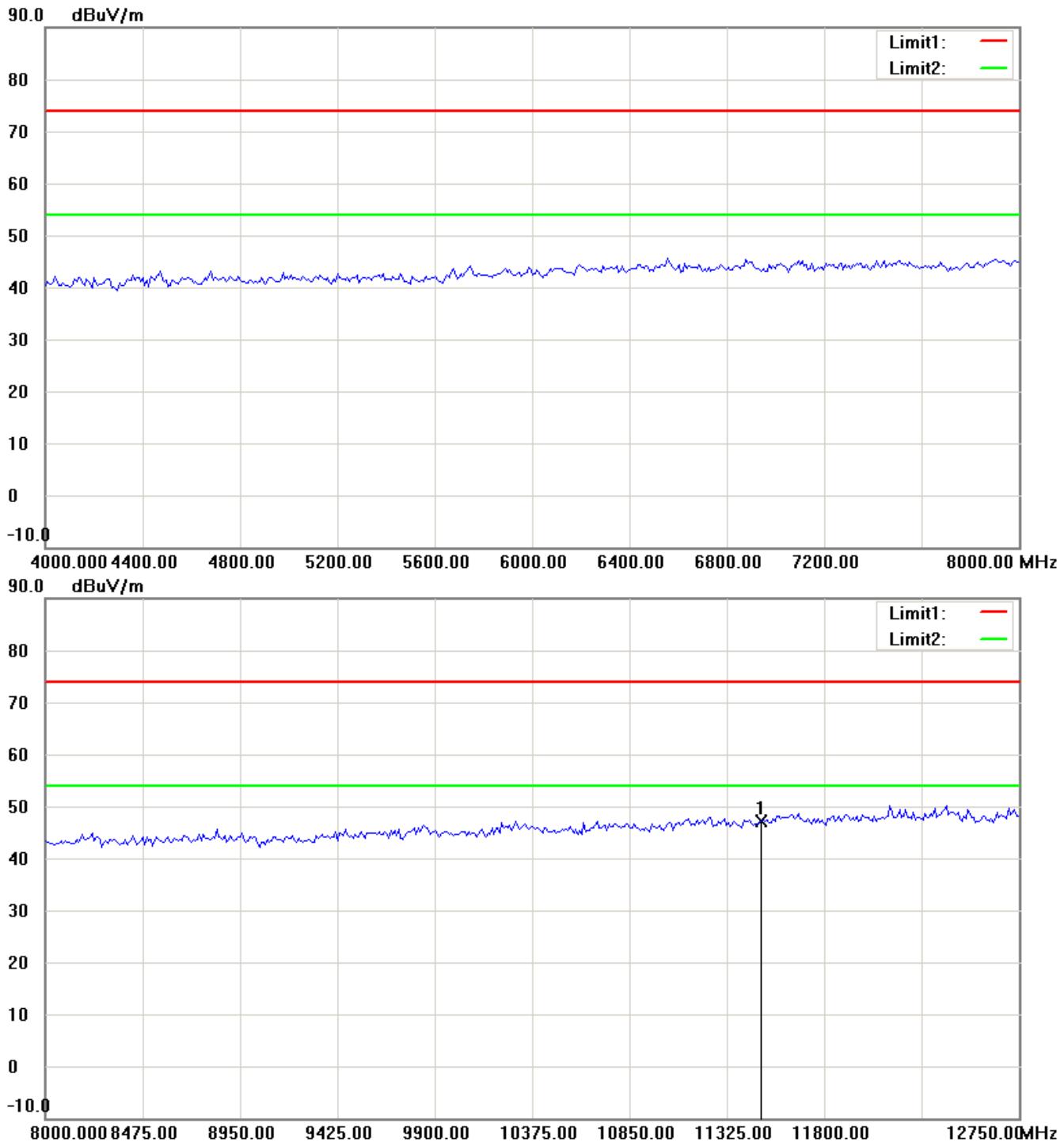
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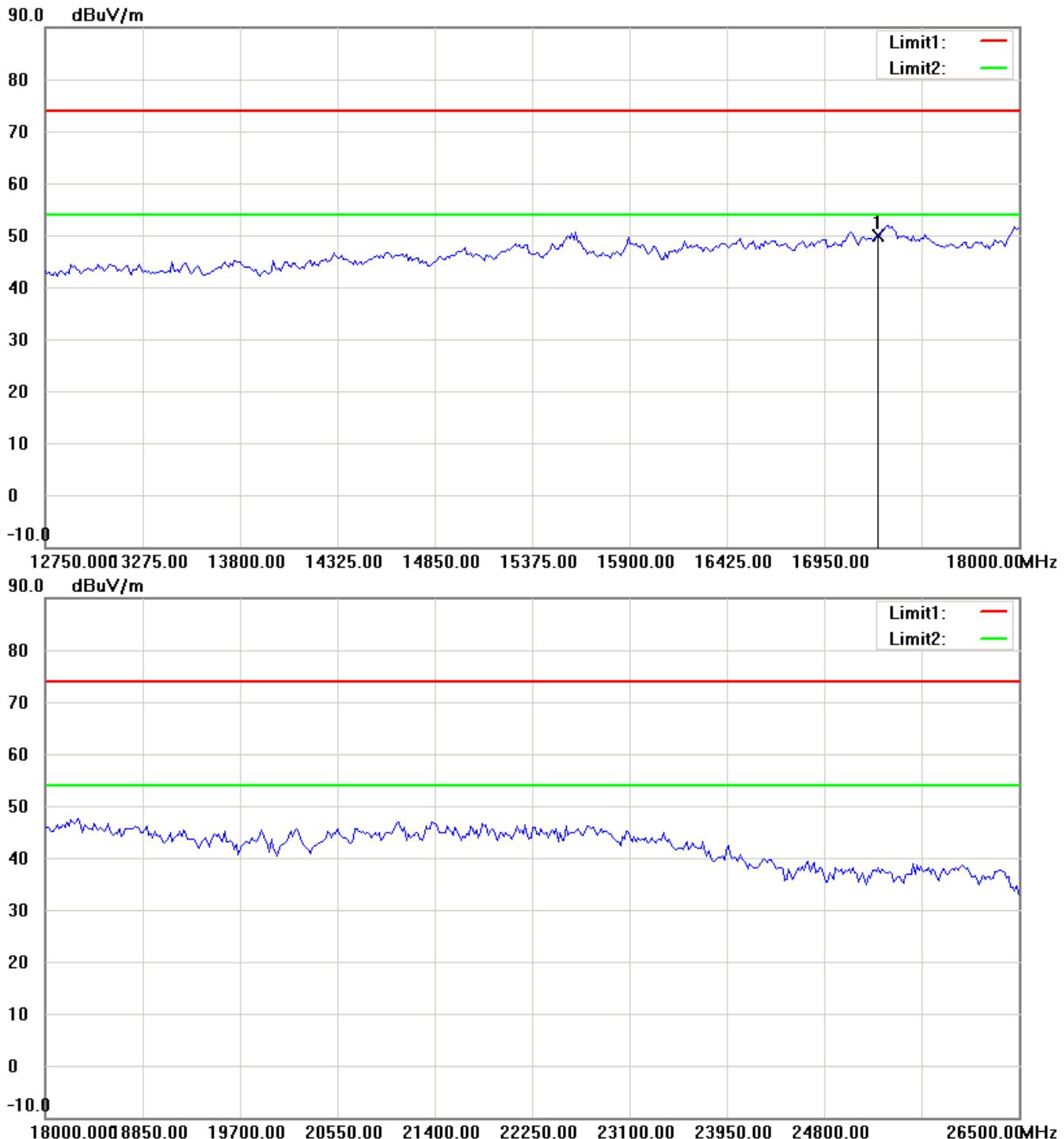
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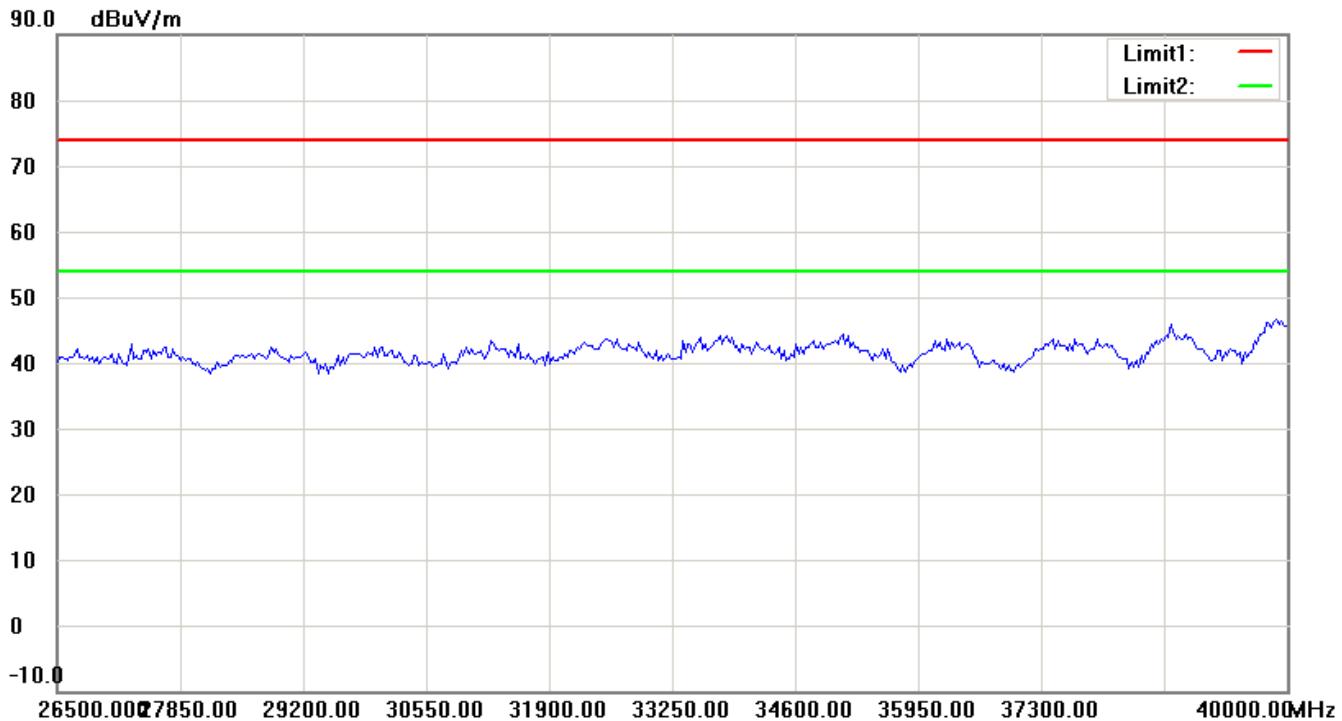
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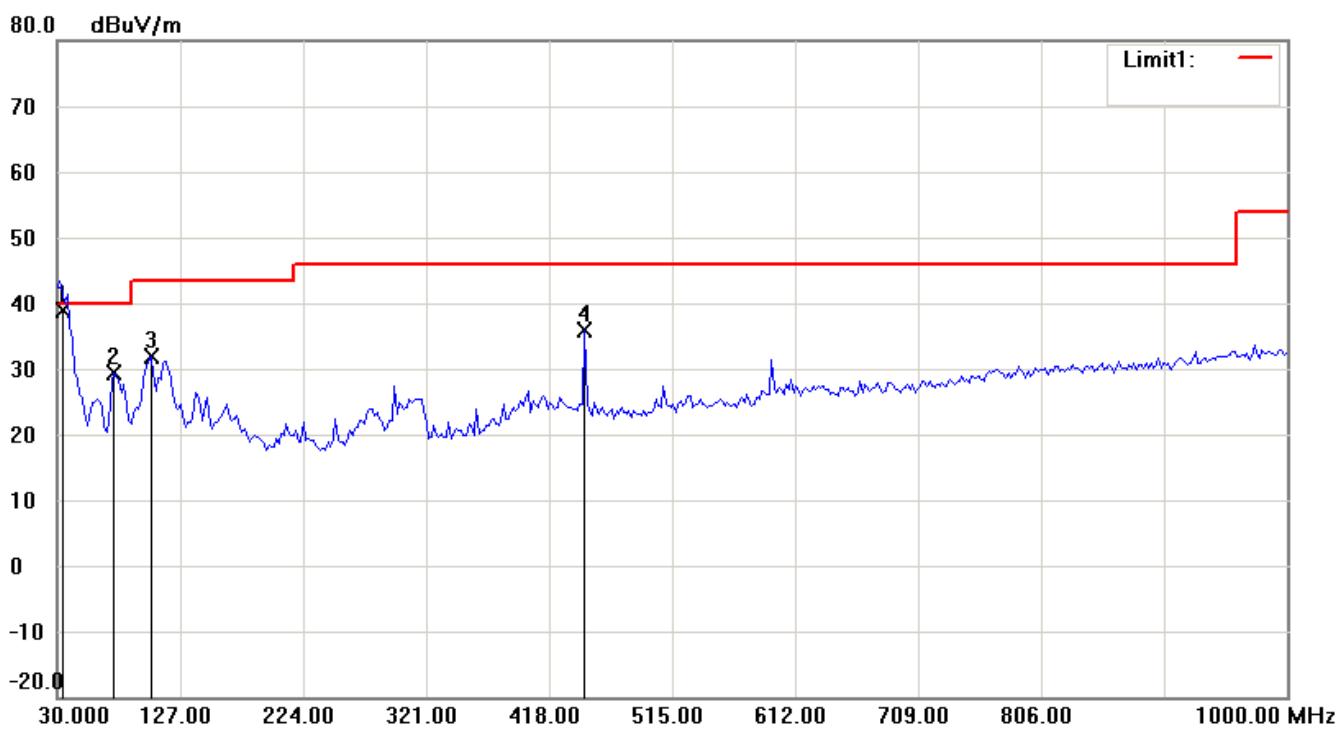
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

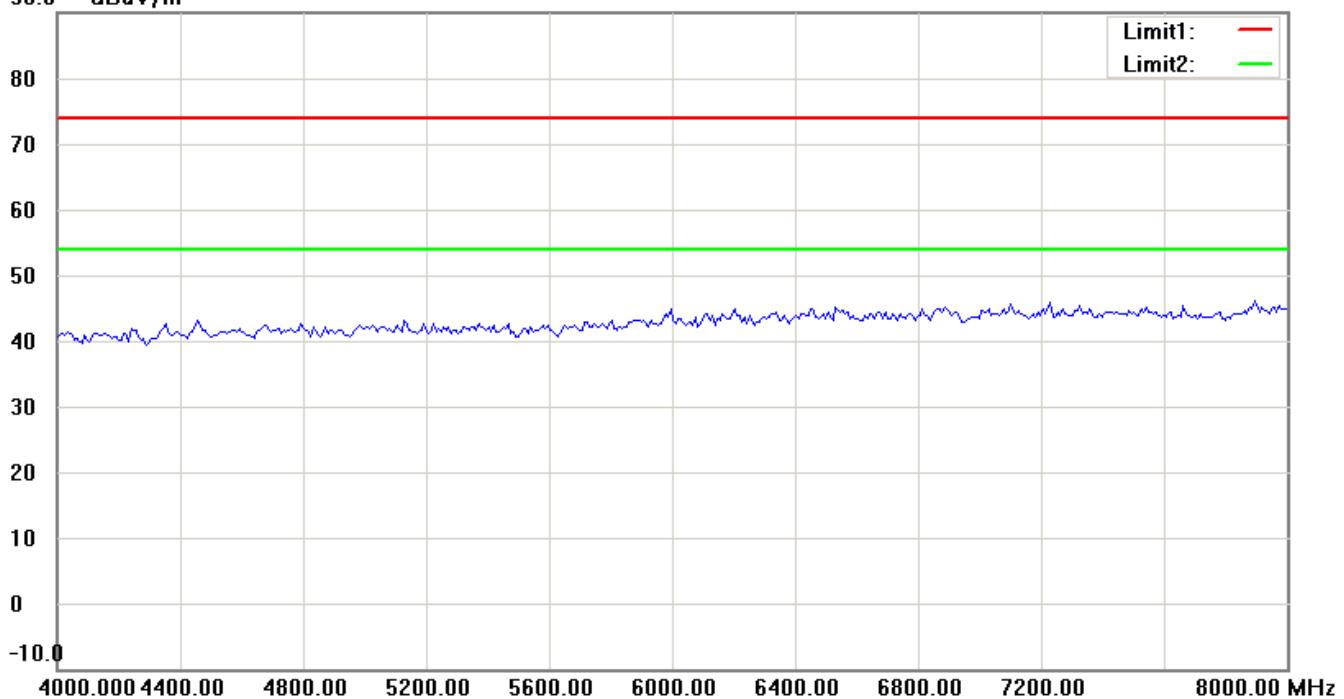
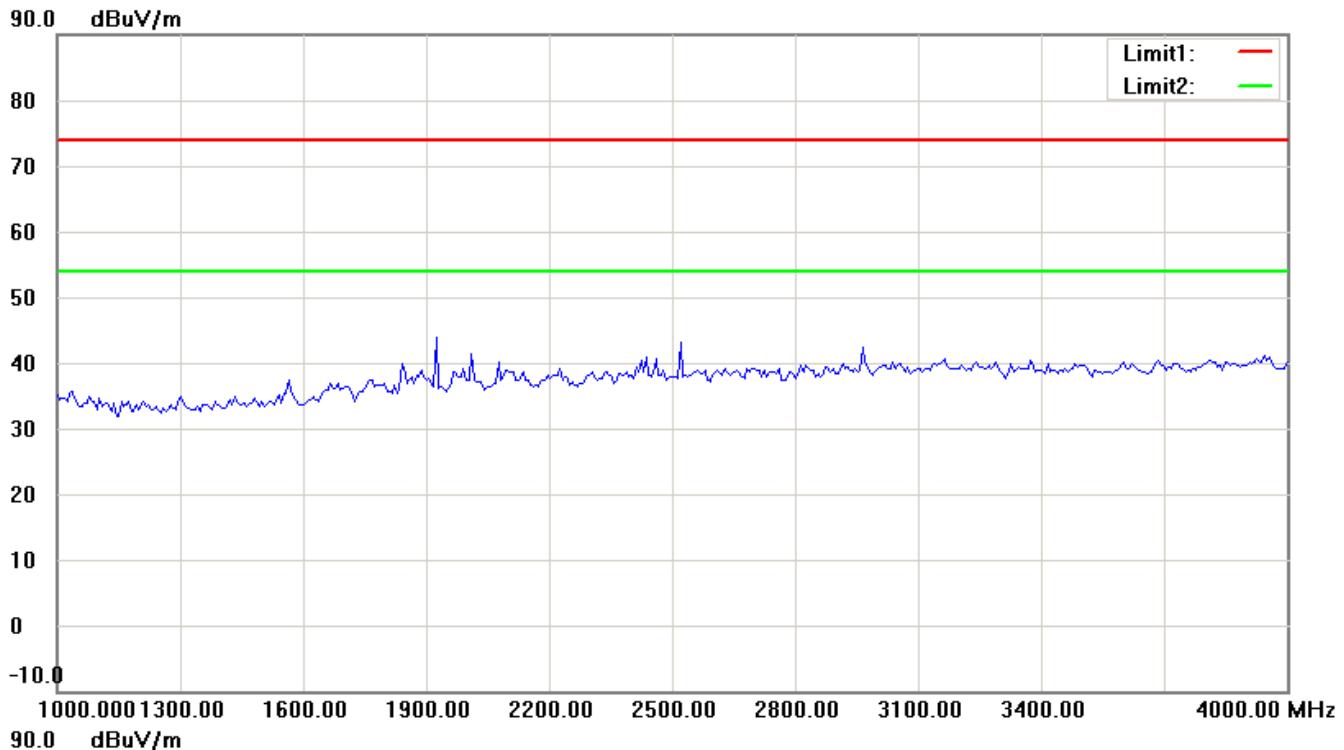
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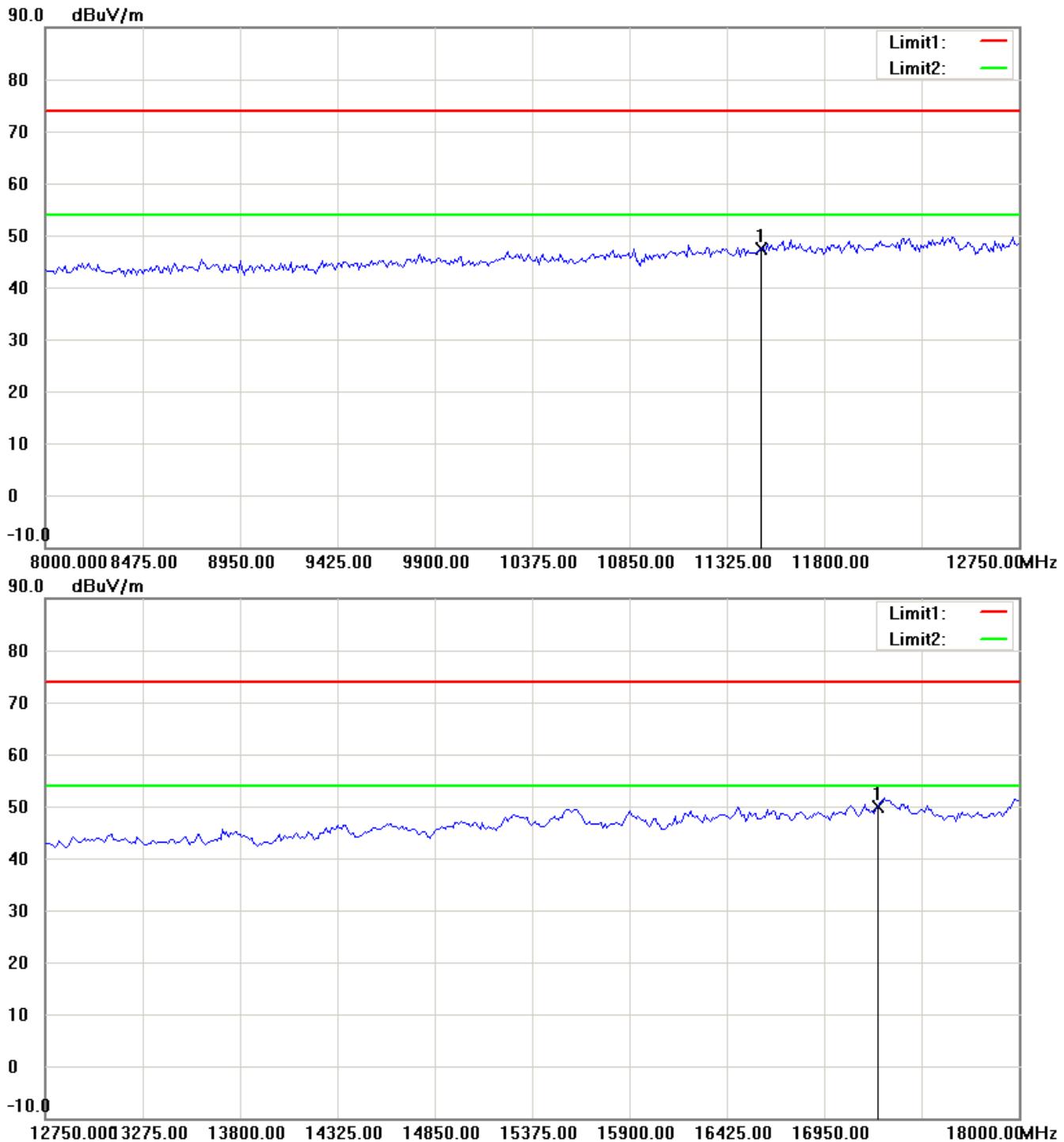
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# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

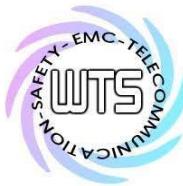
FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

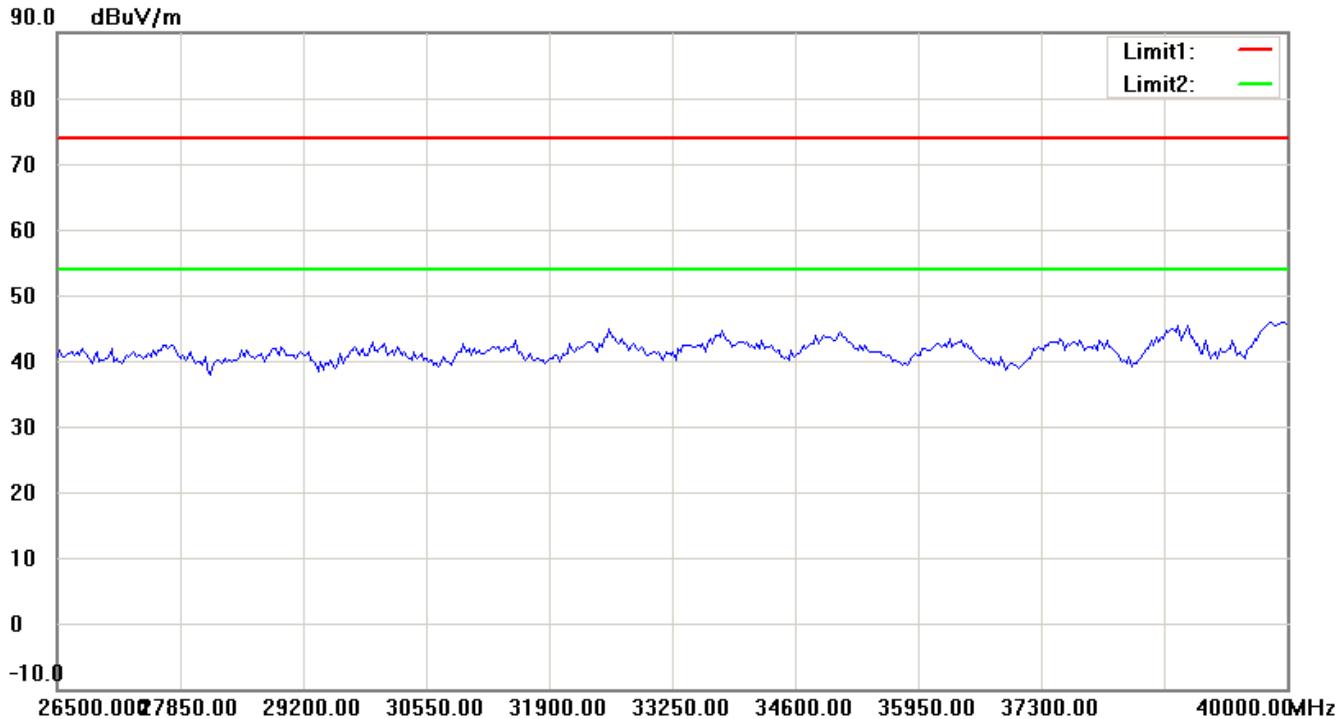
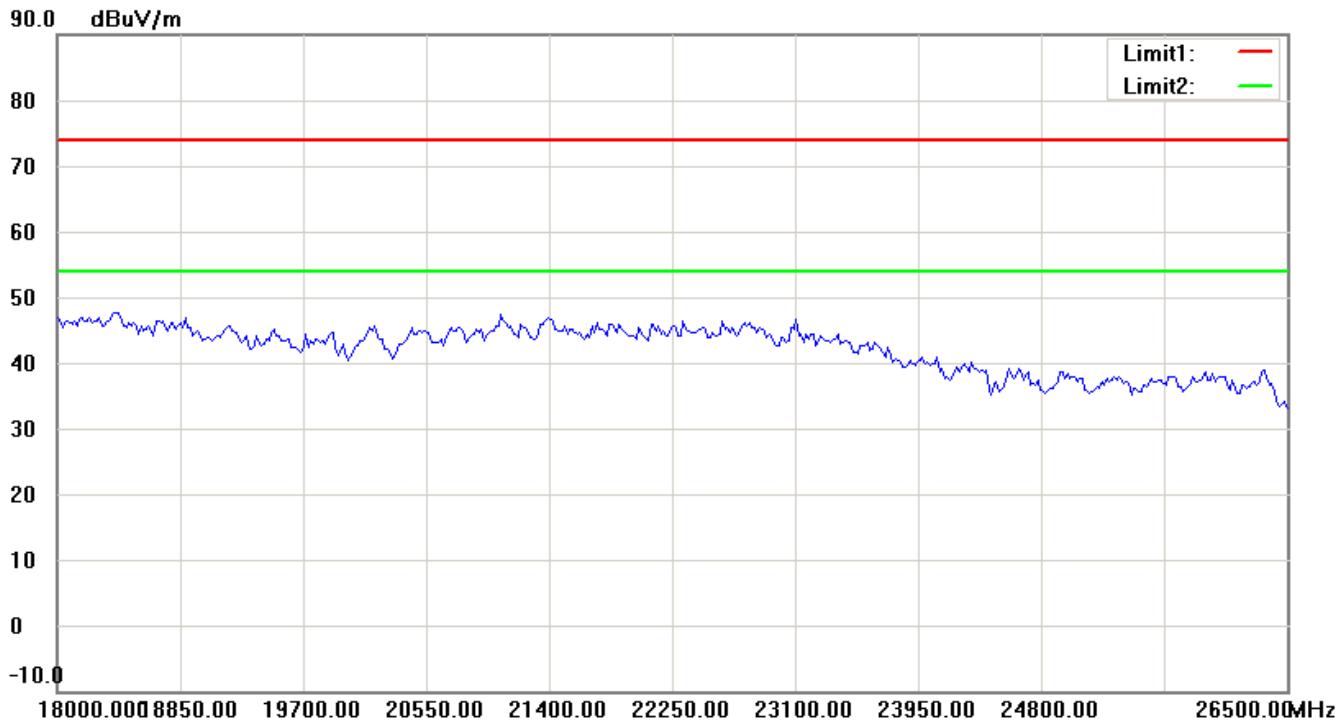
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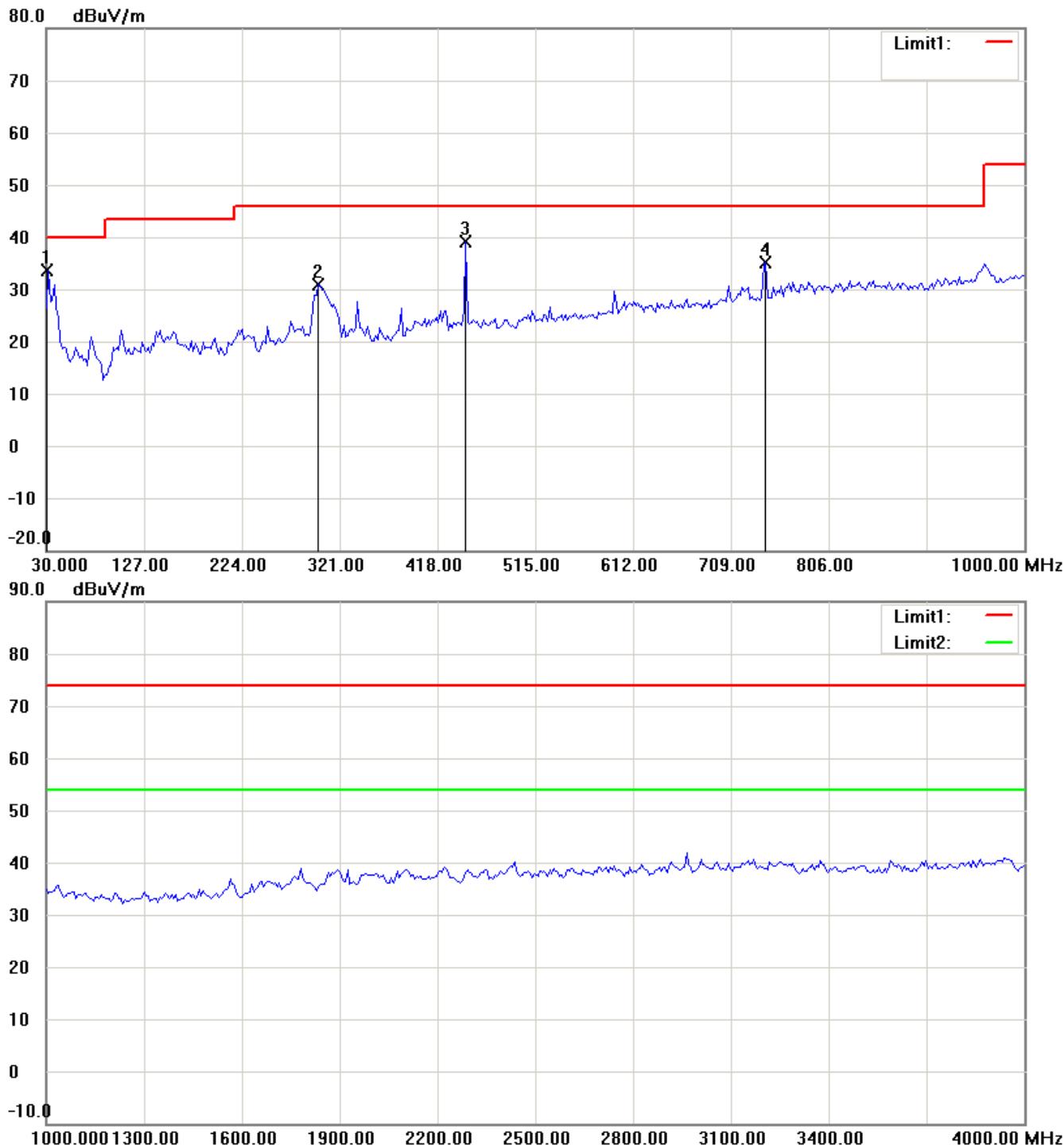
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

802.11a ch157 TX

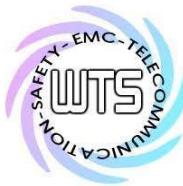
Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

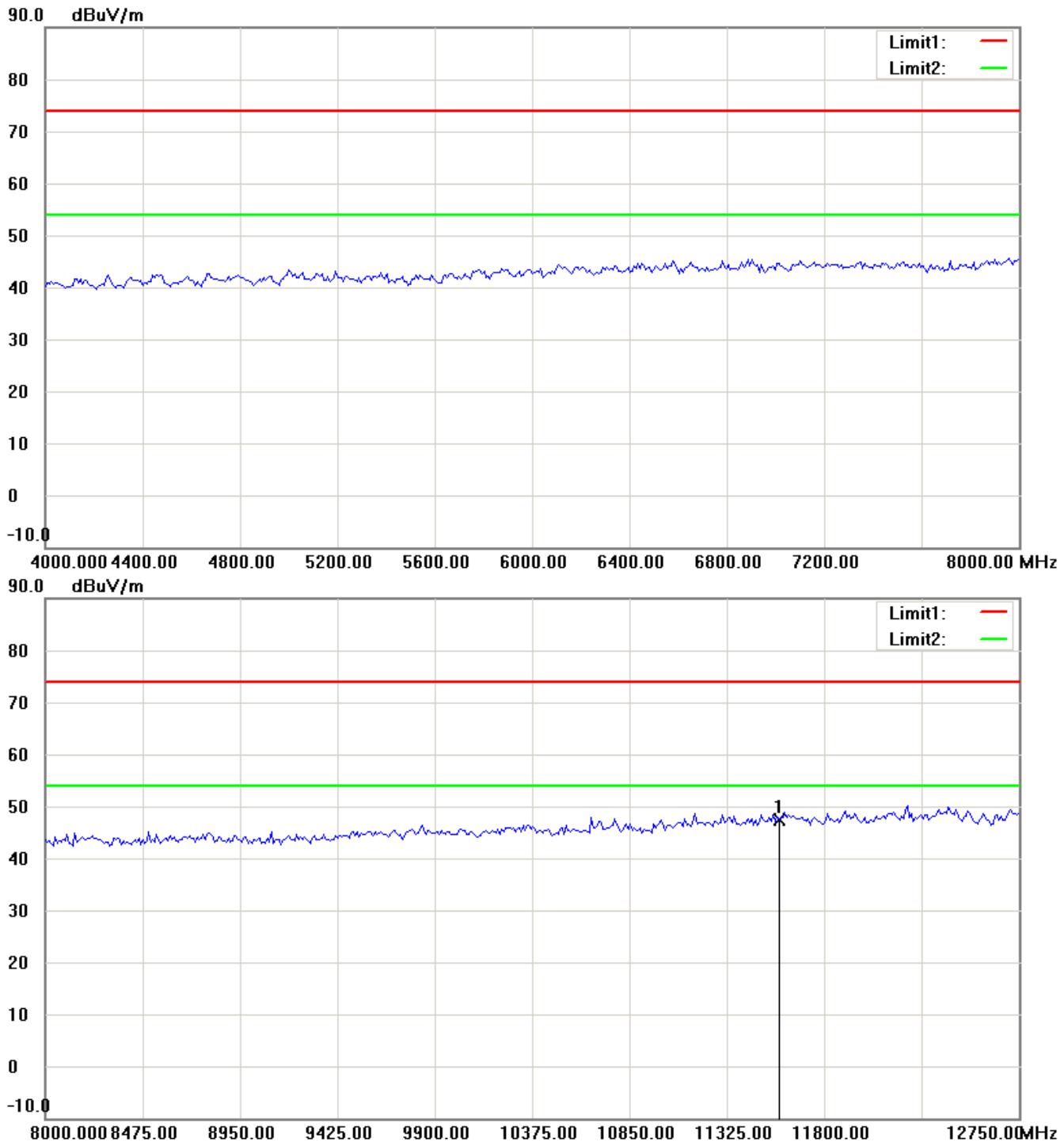
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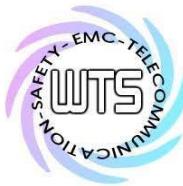
FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

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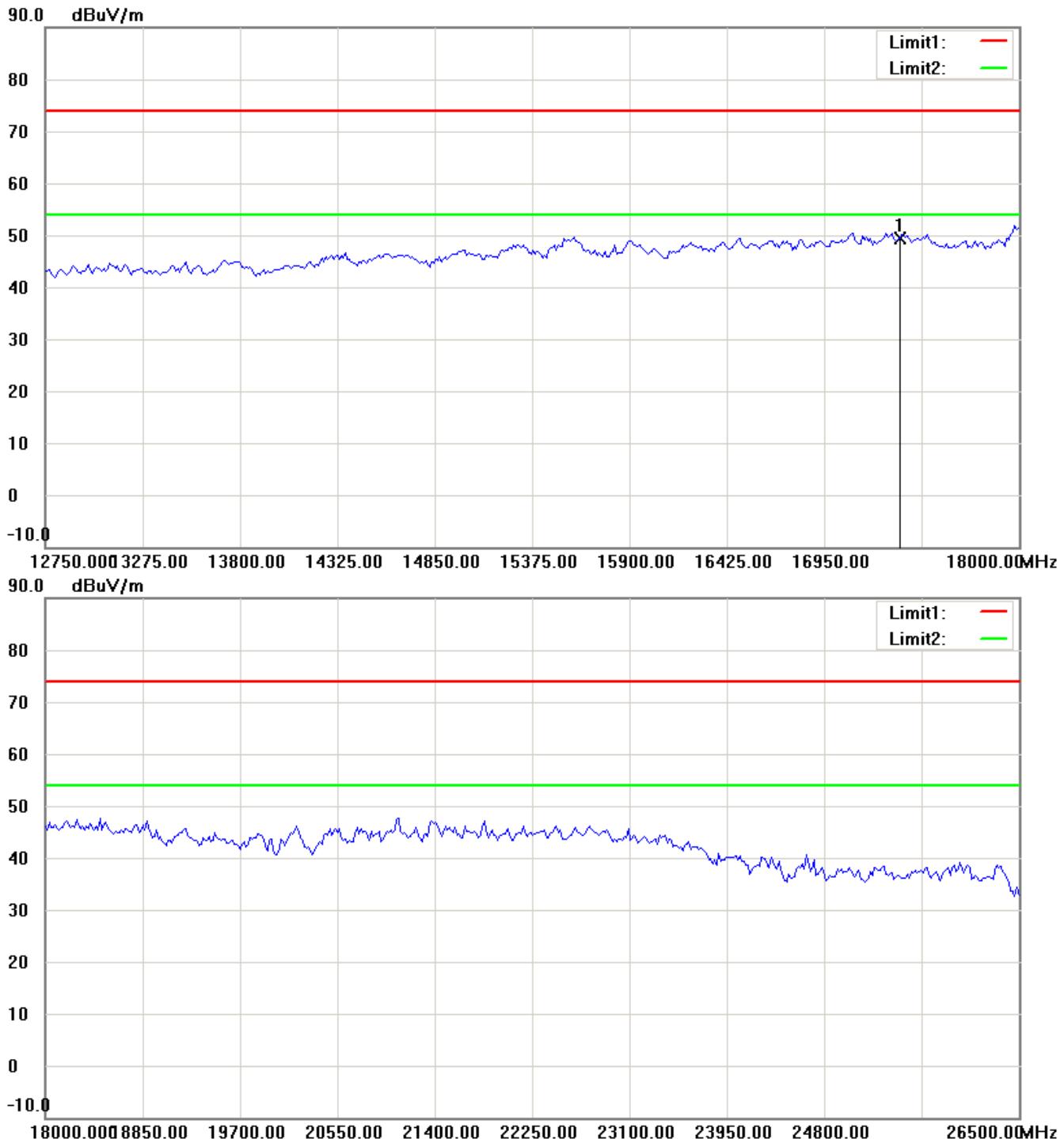
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Note:

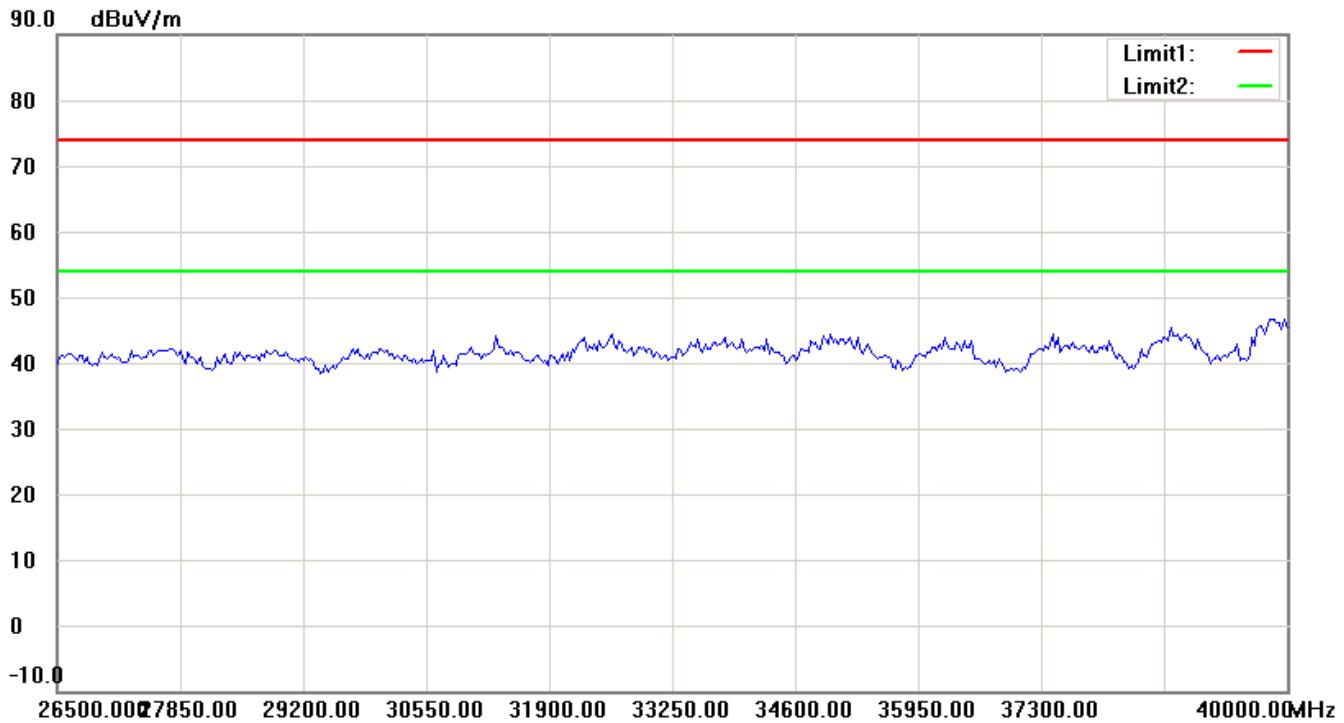
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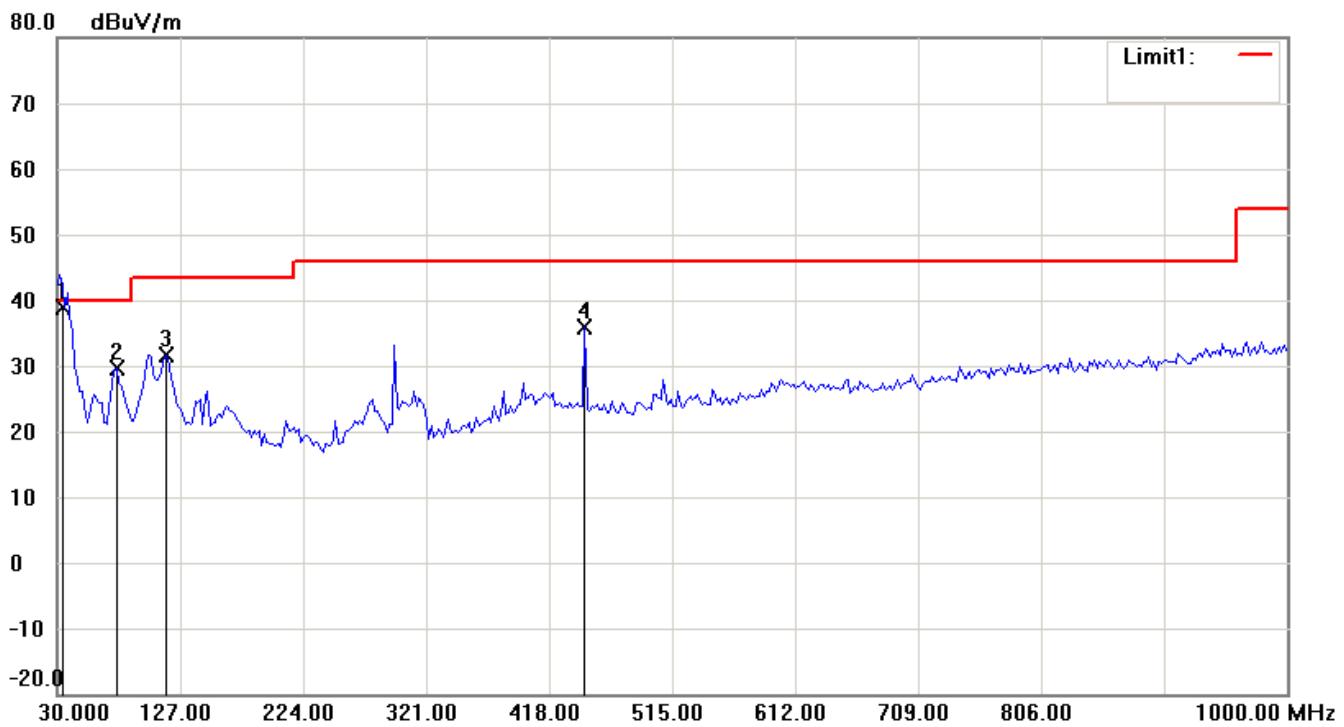
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

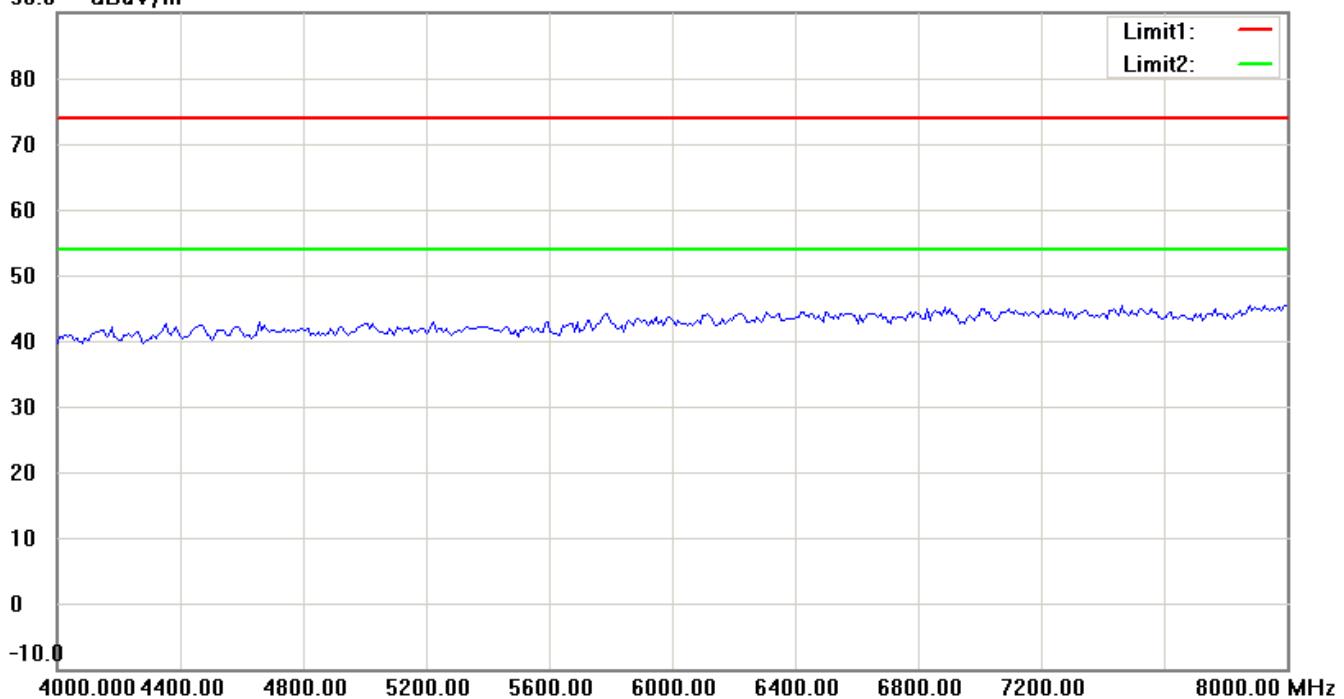
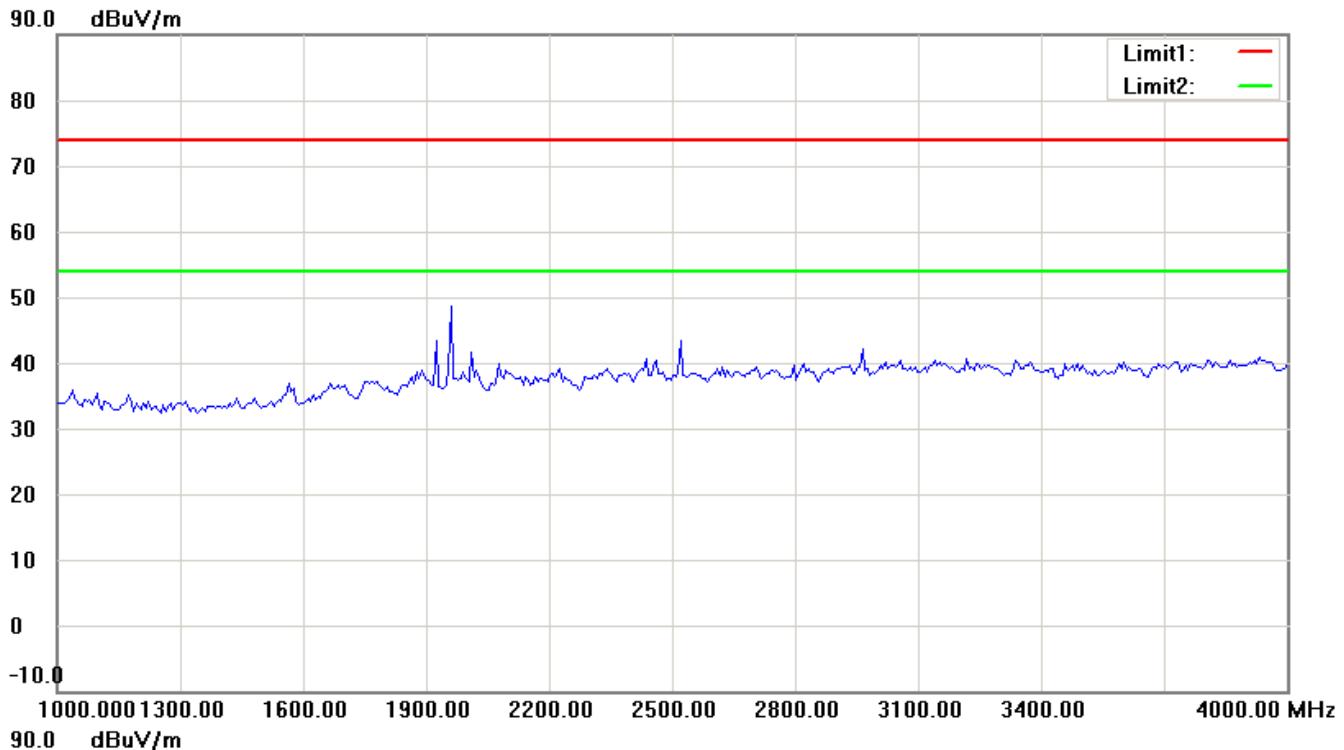
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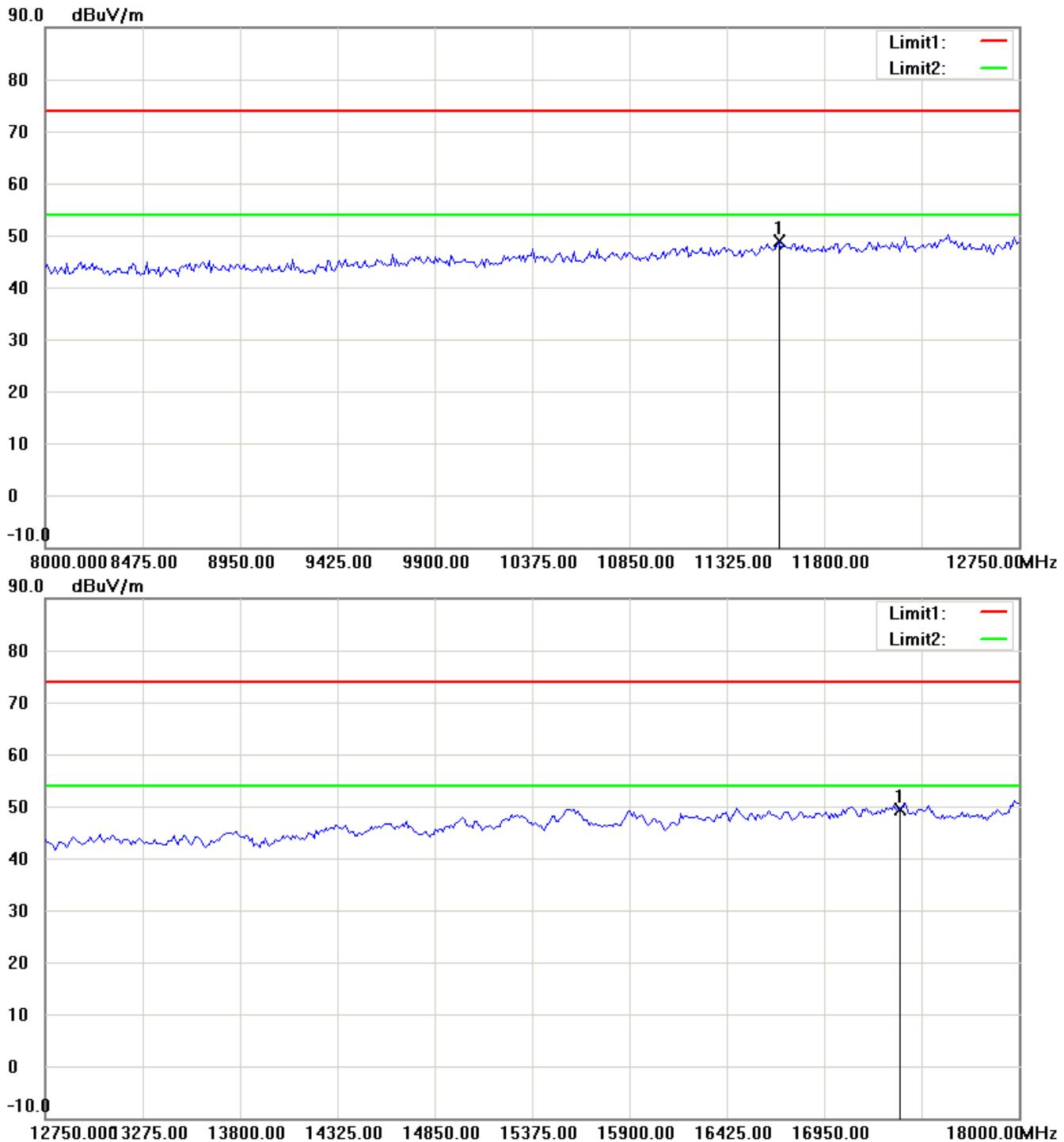
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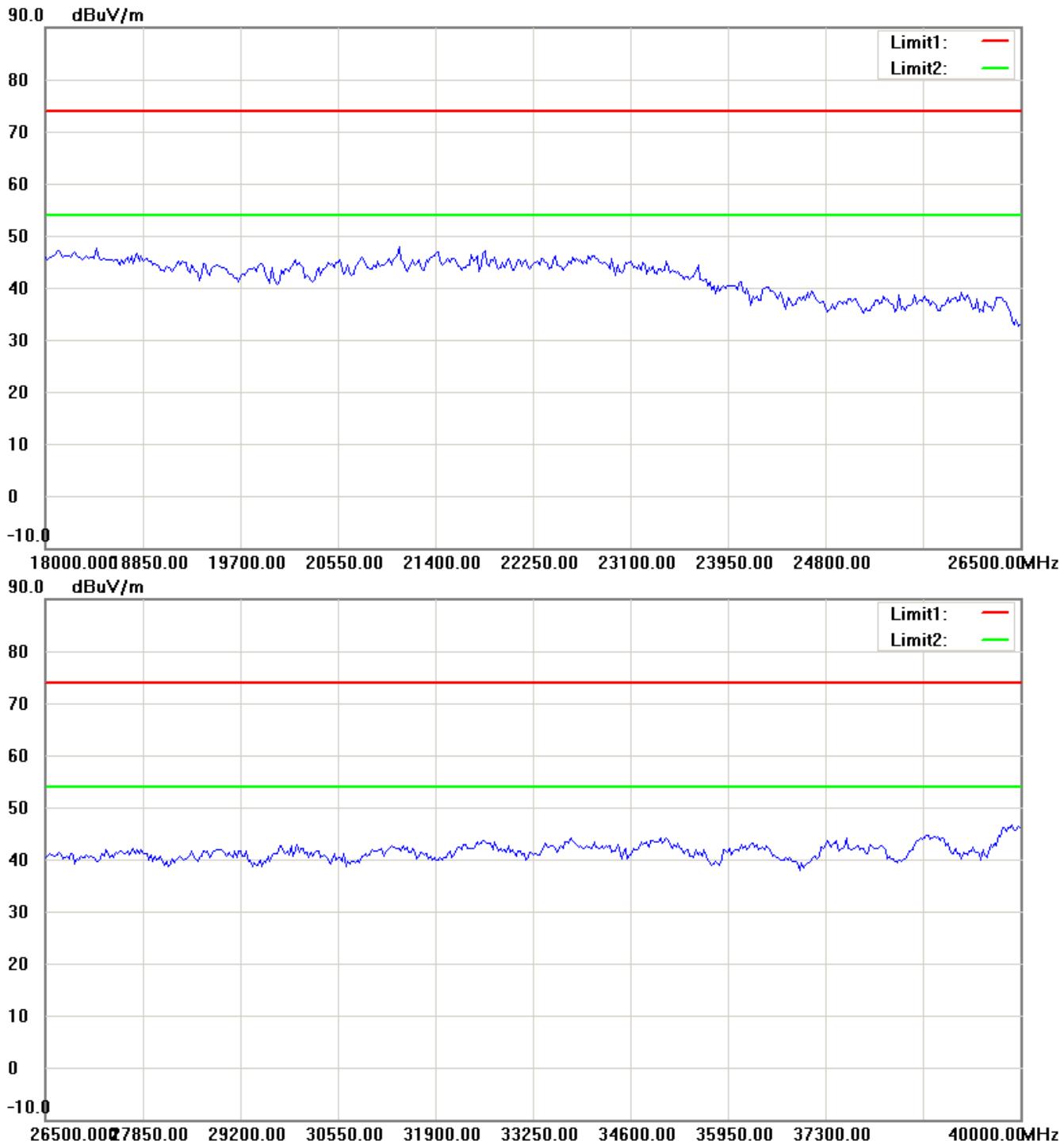
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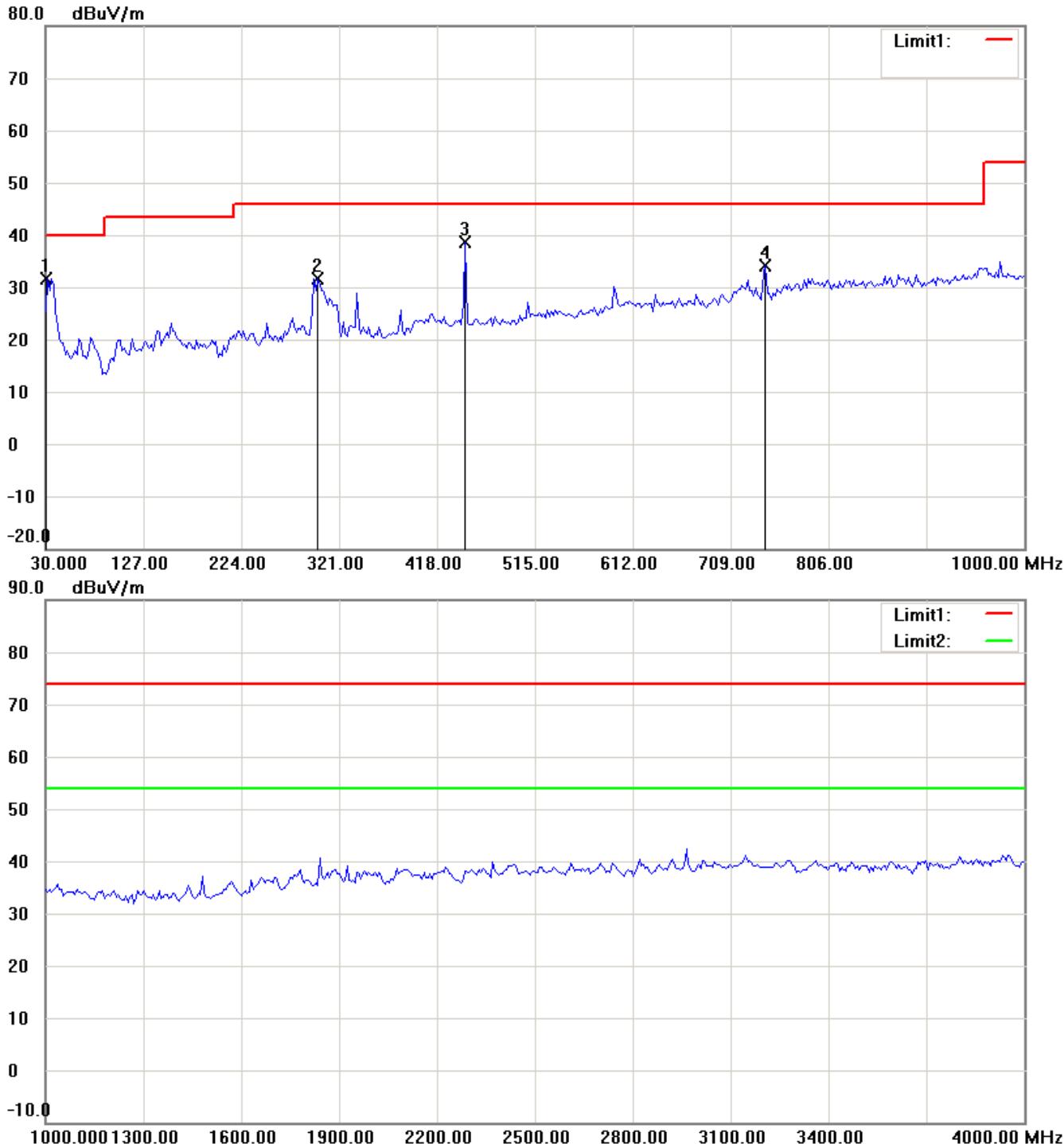
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

802.11a ch165 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

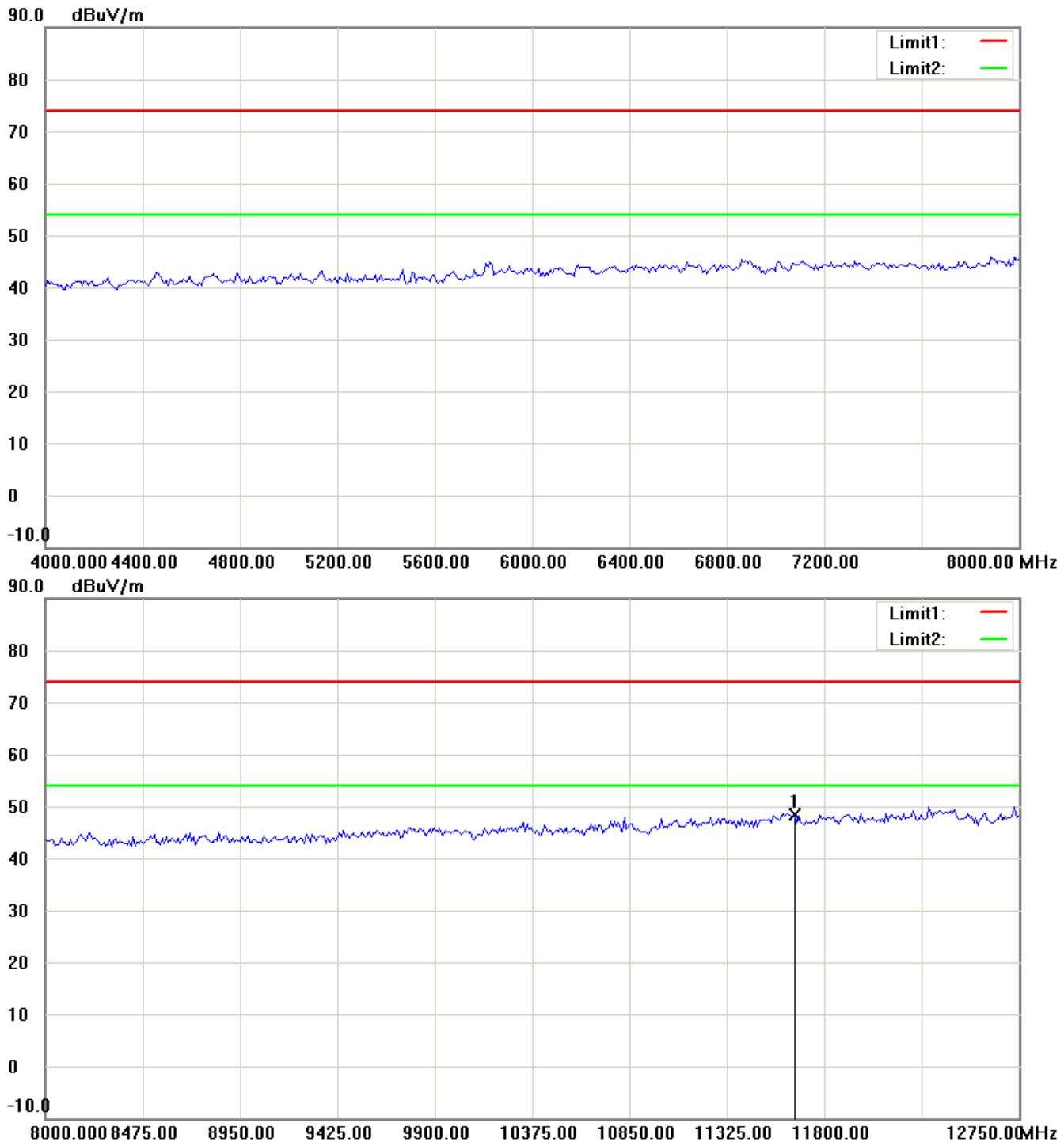
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

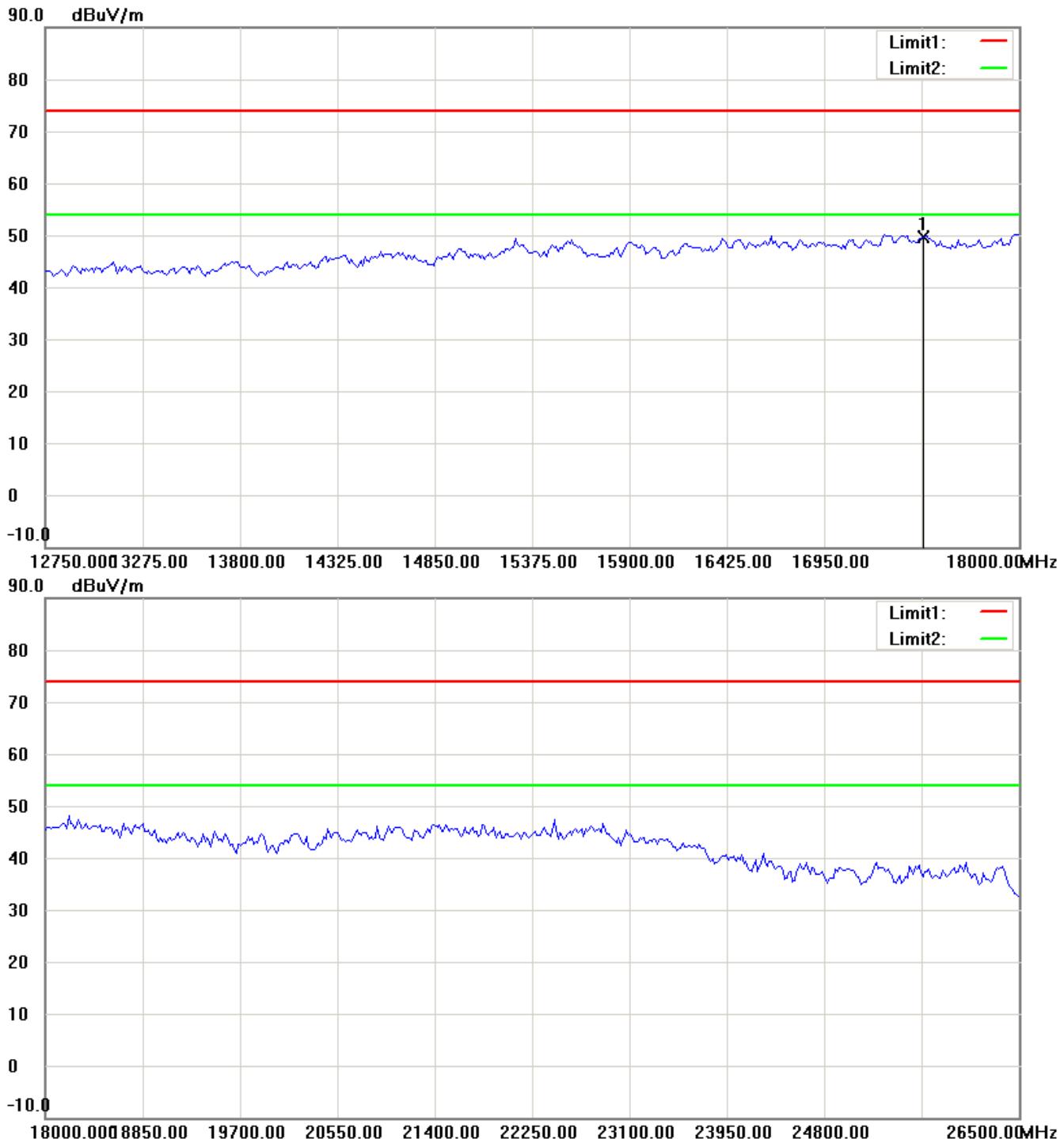
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

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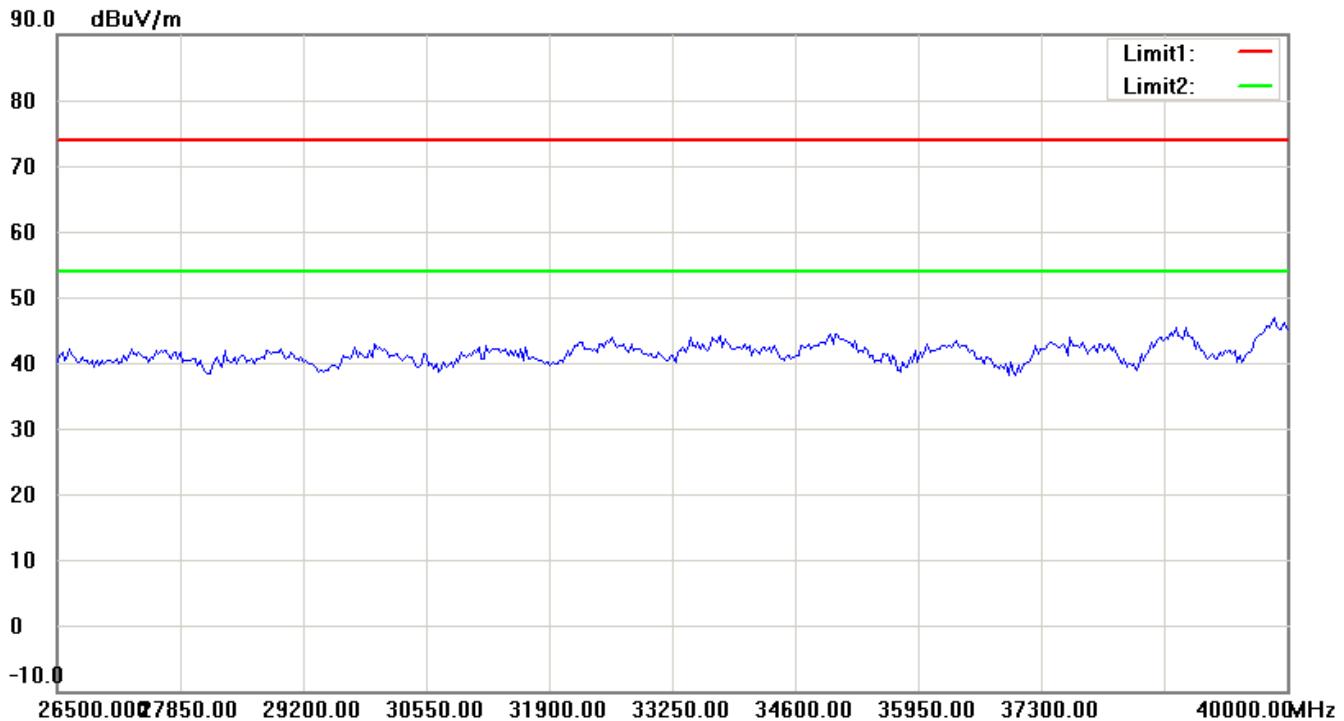
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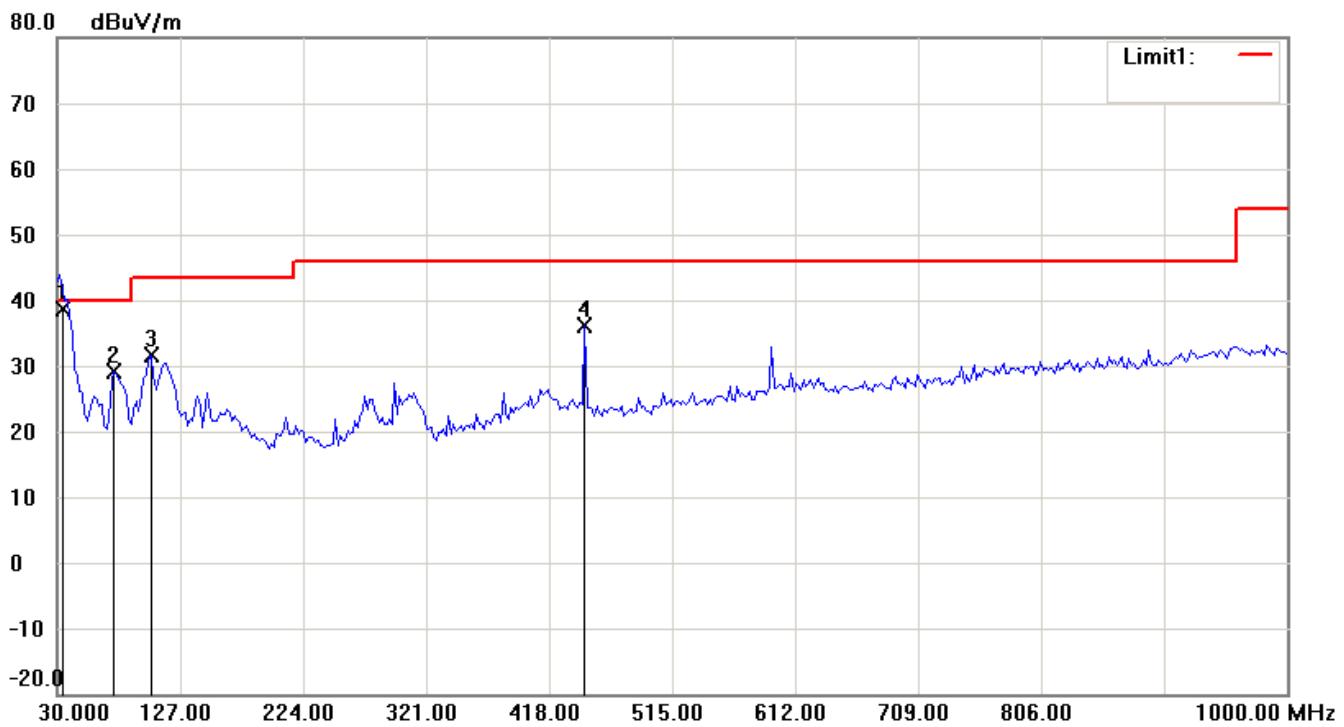
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

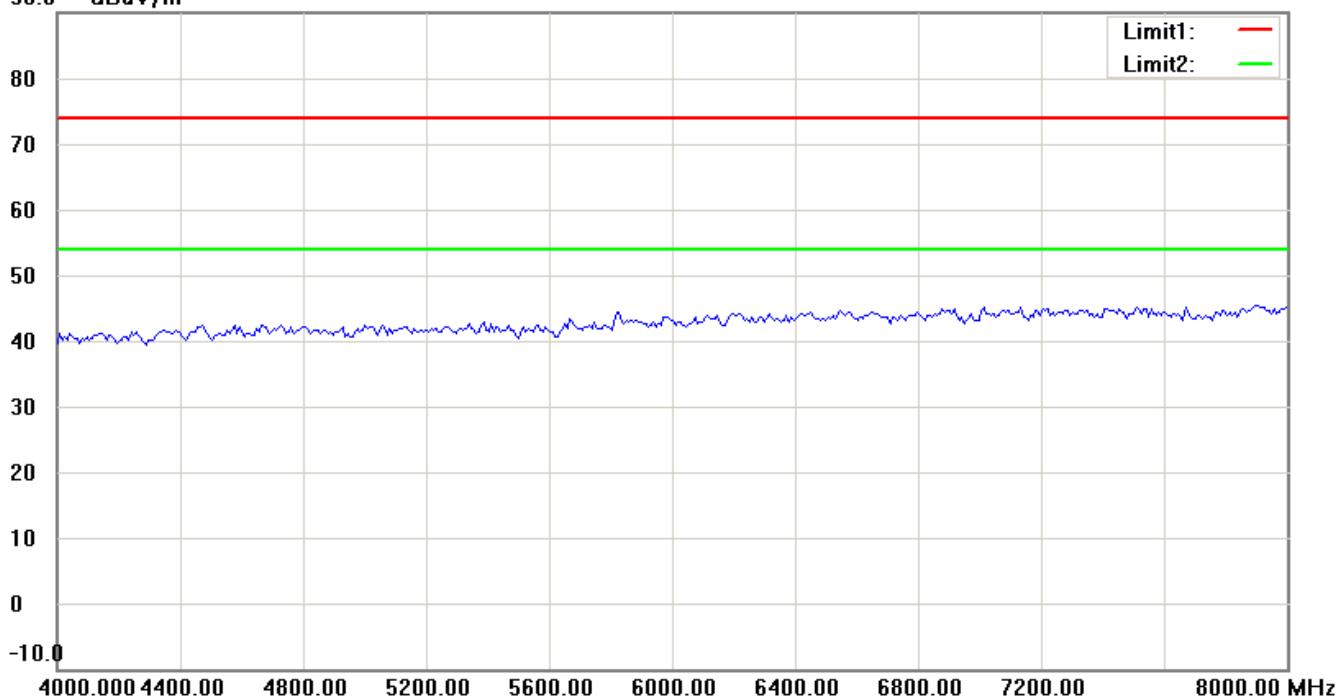
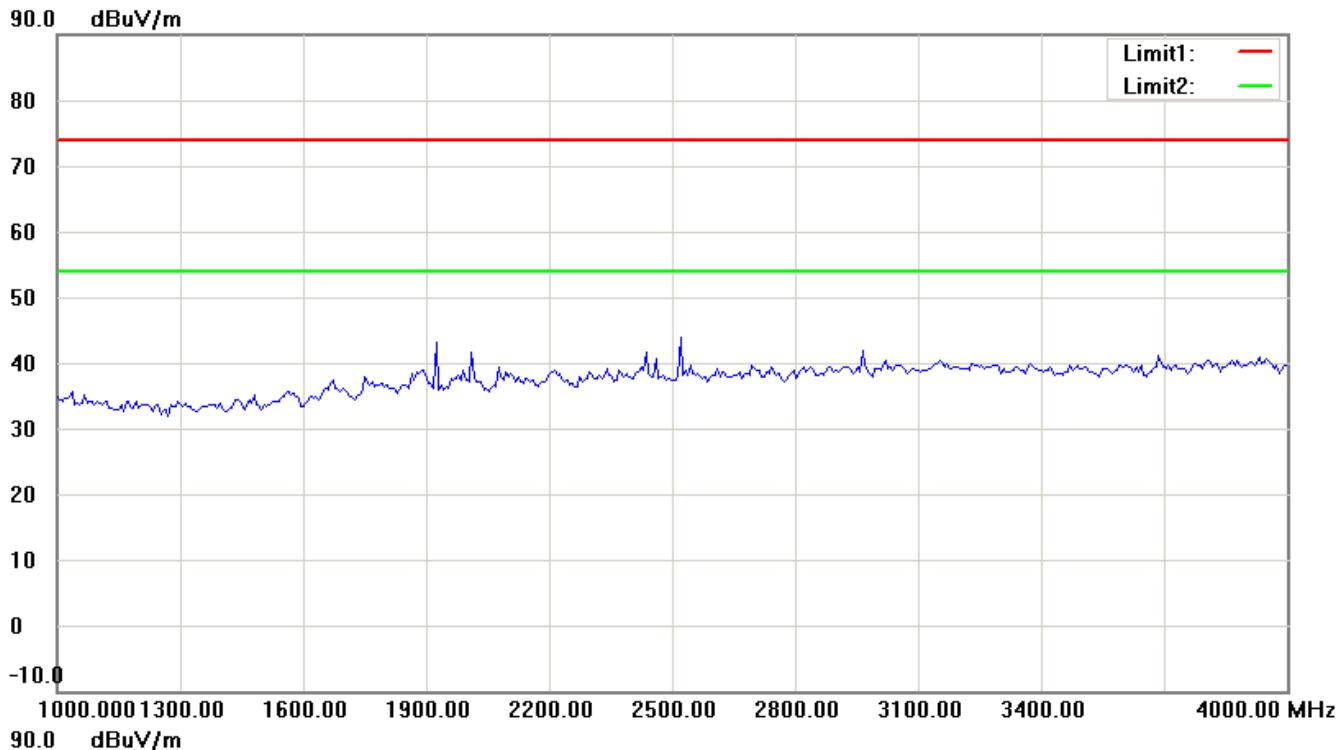
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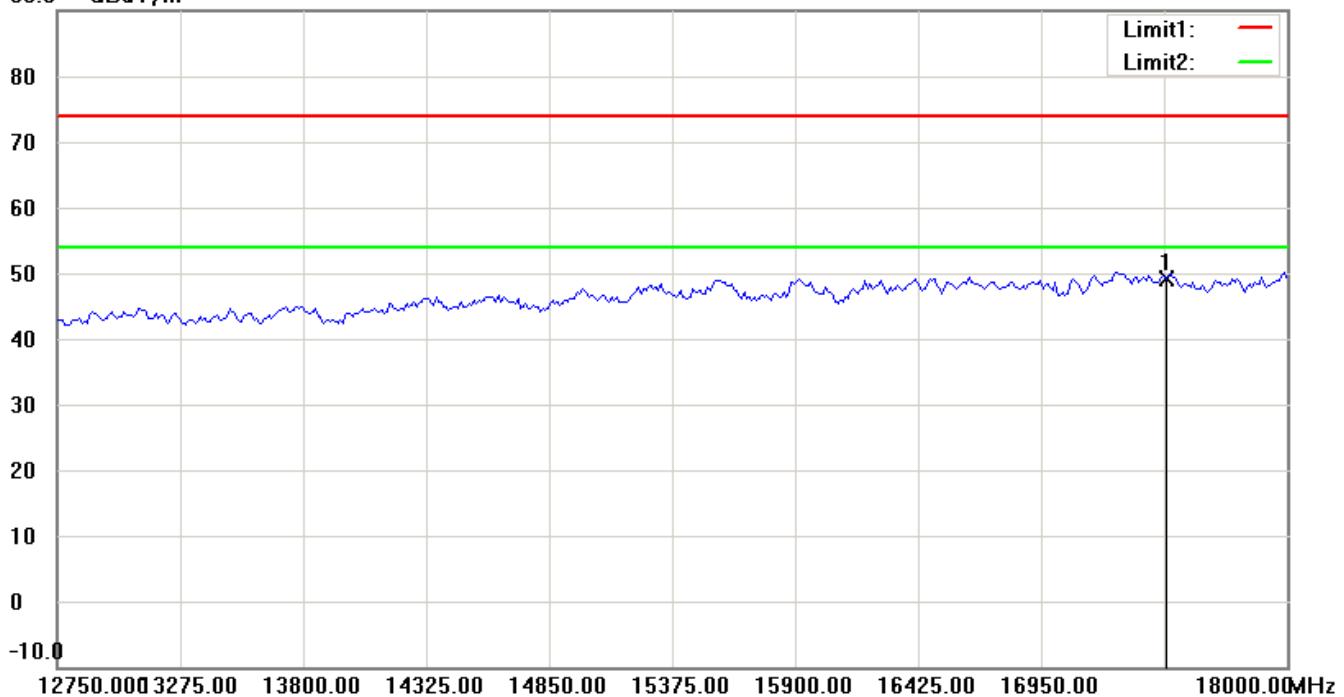
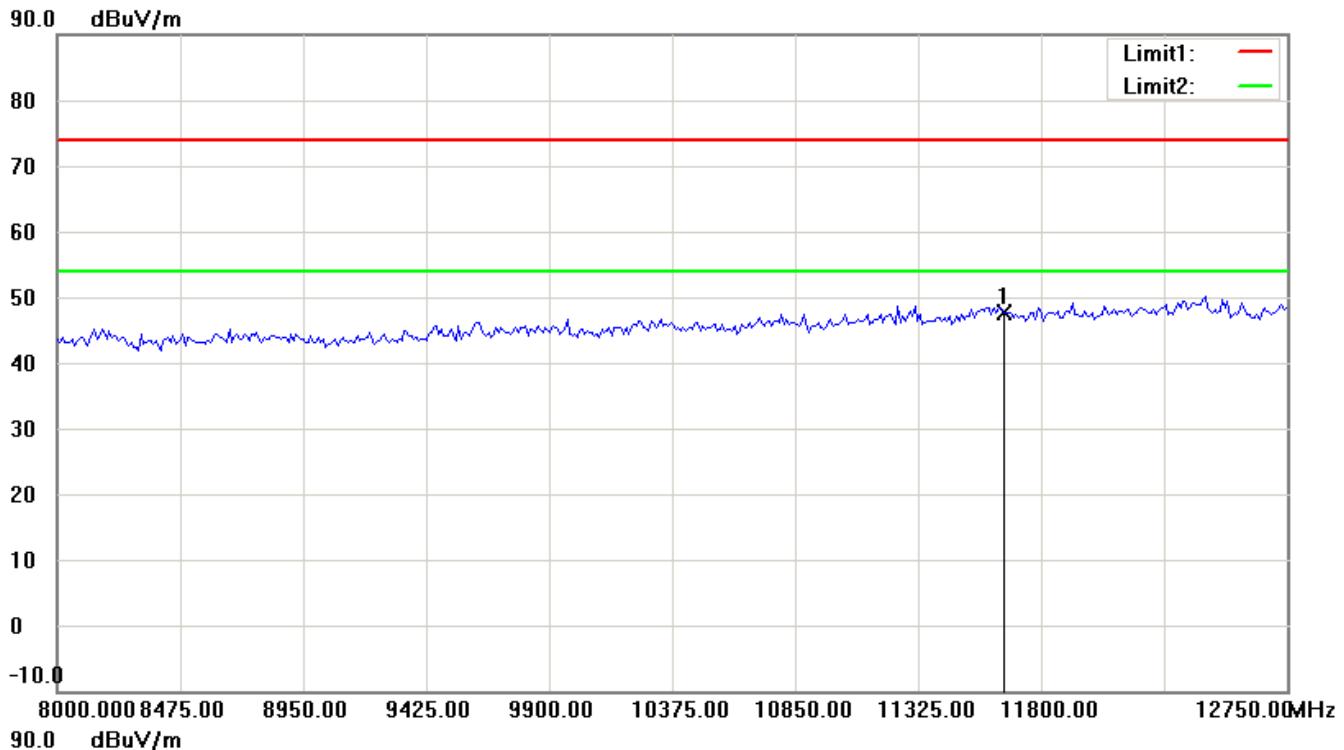
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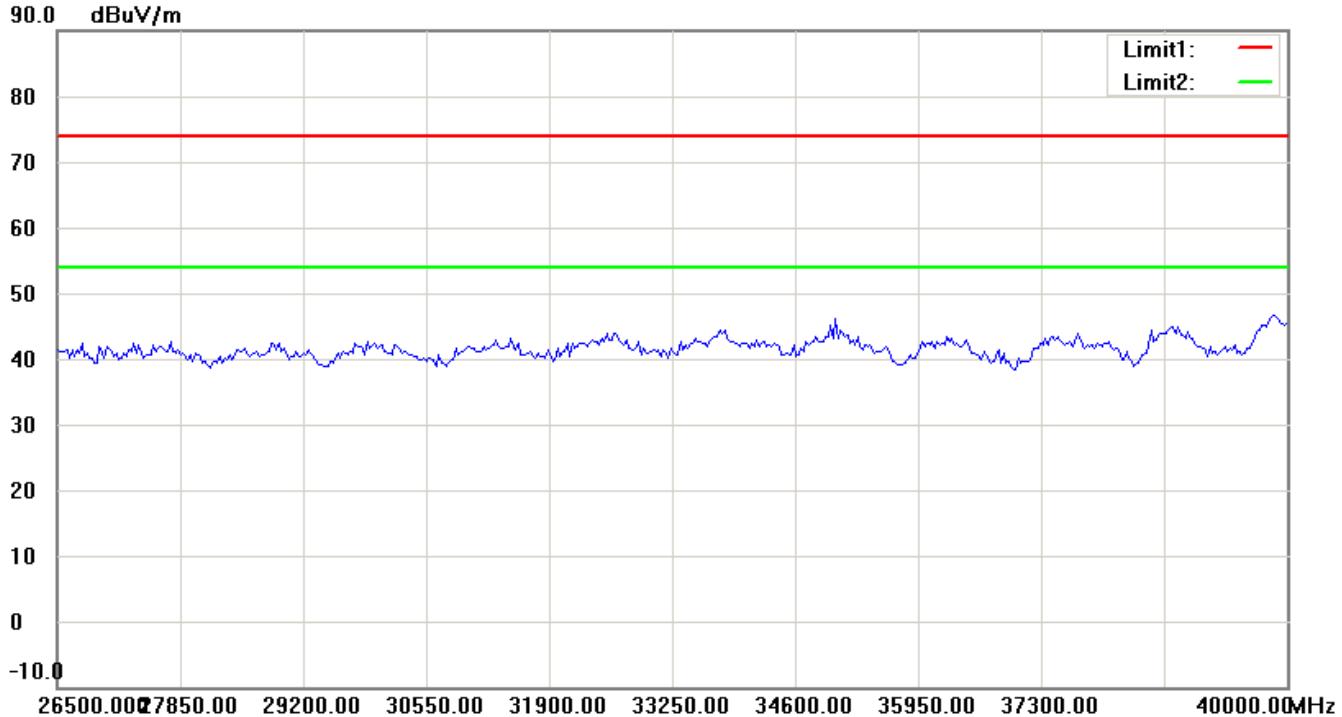
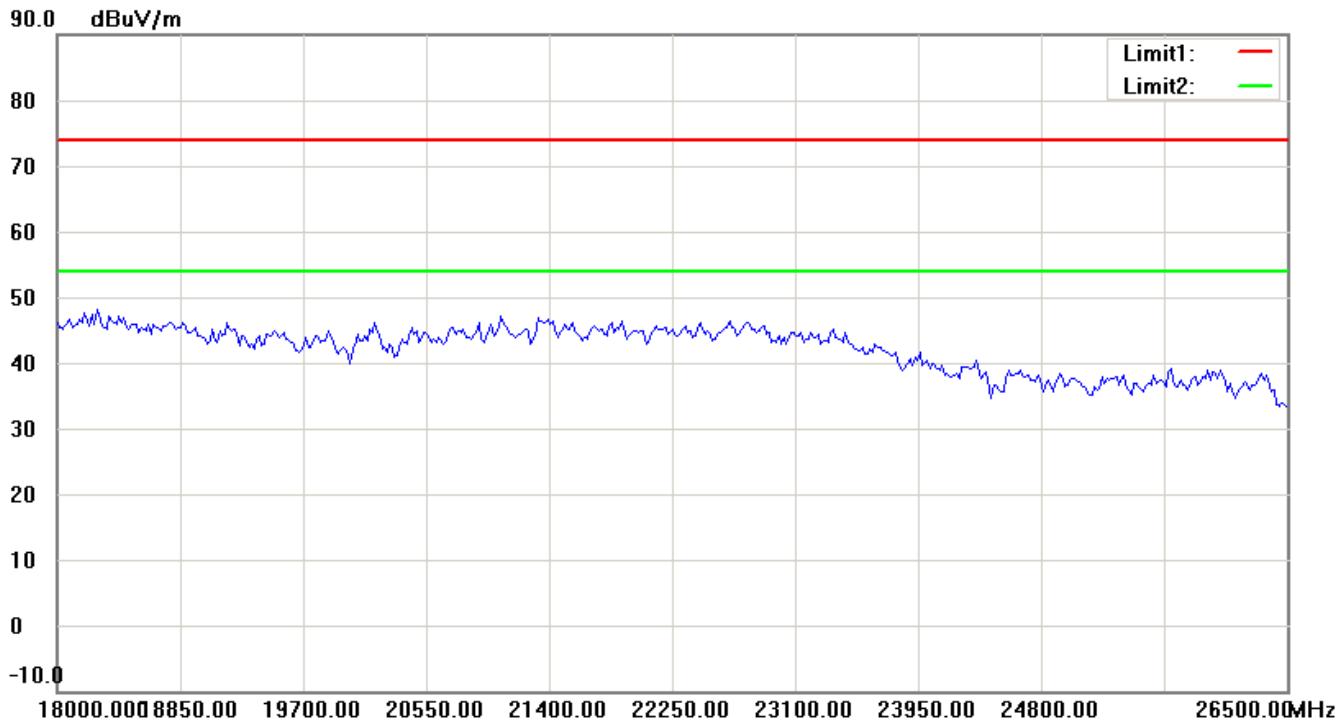
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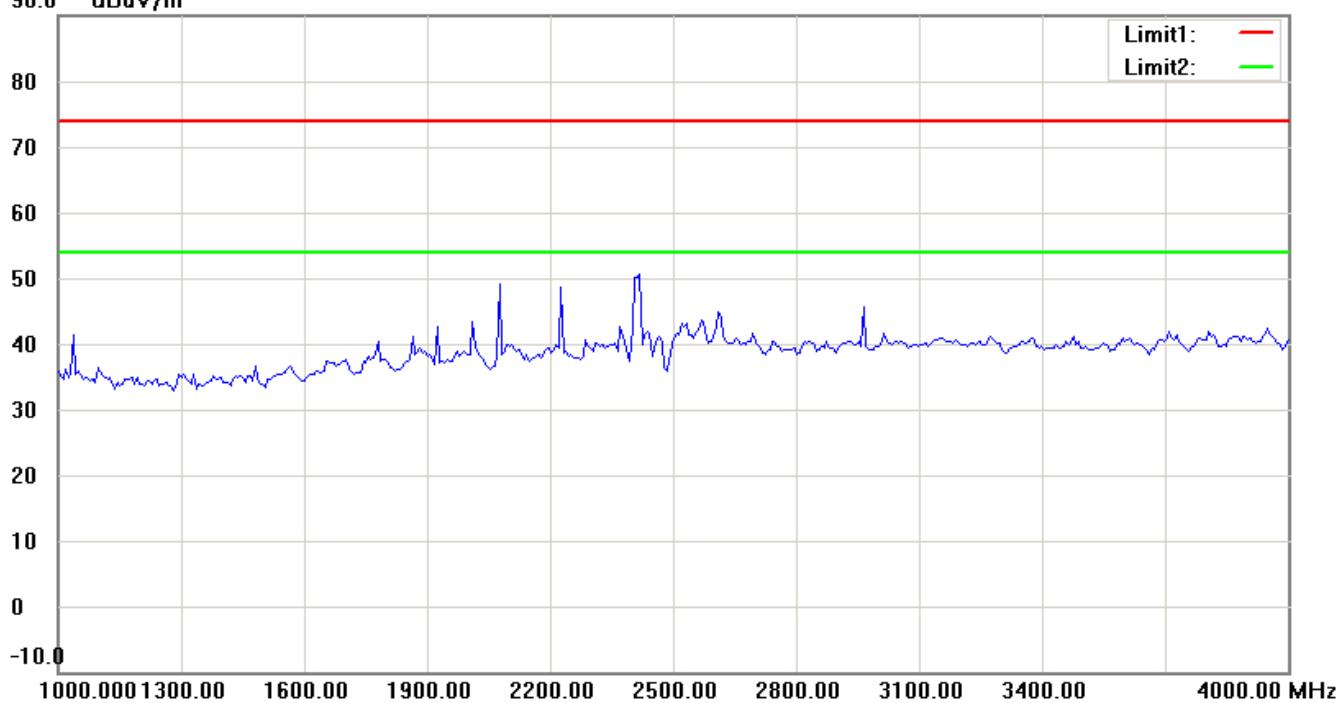
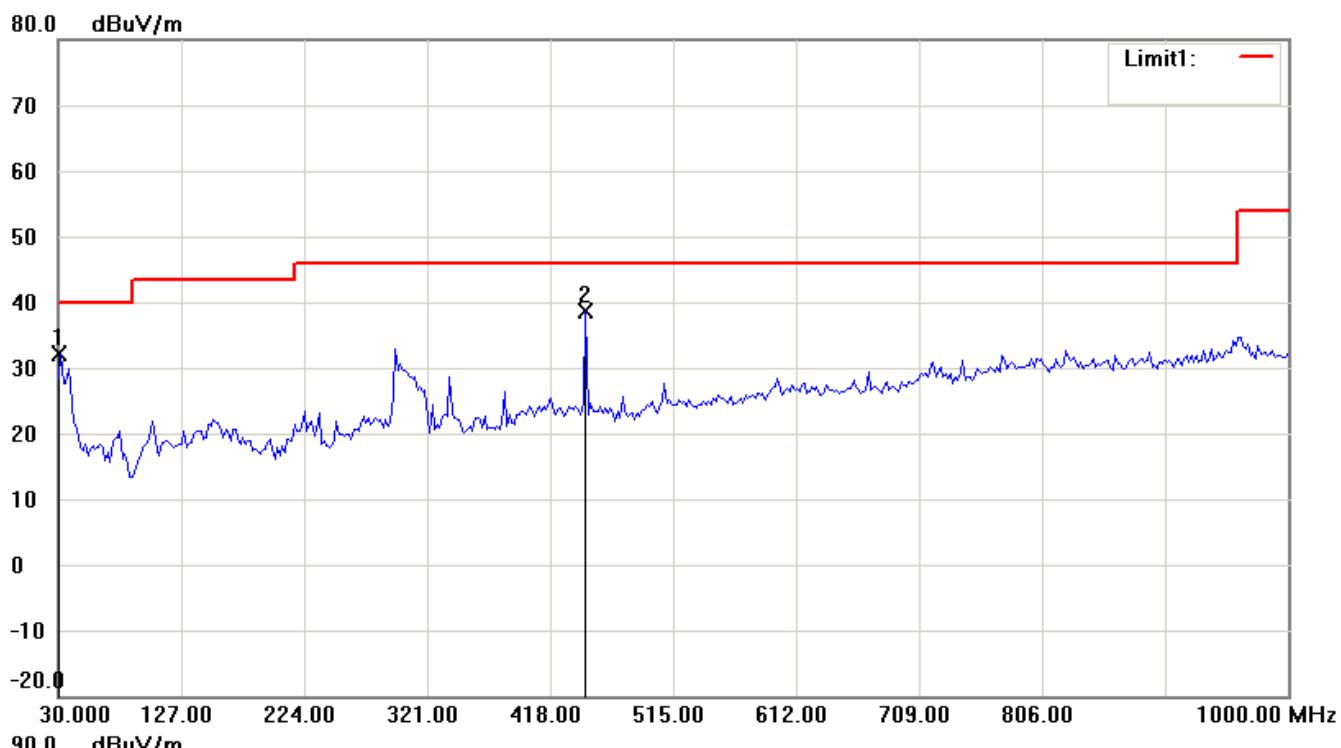
FCC ID: 2AA4J-W6M2130813478

ANT B (ANT 2)

WLAN 2.4GHz

802.11b ch1 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

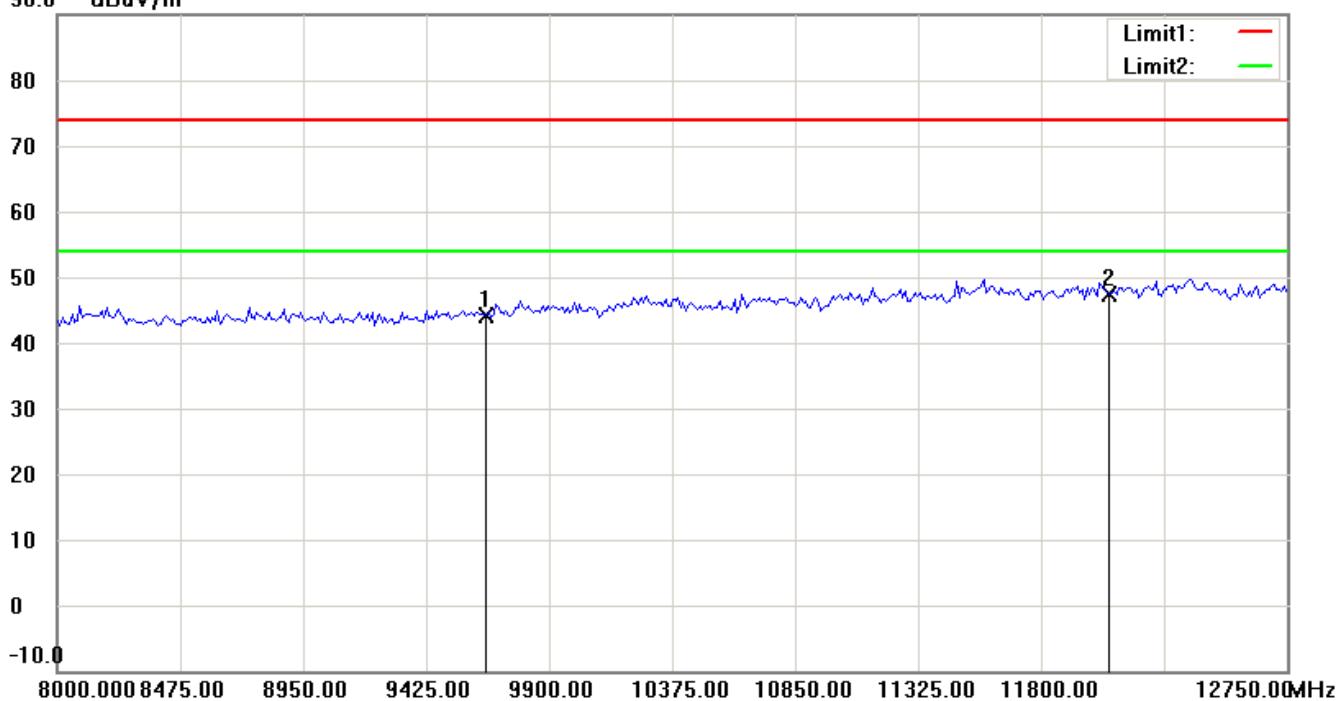
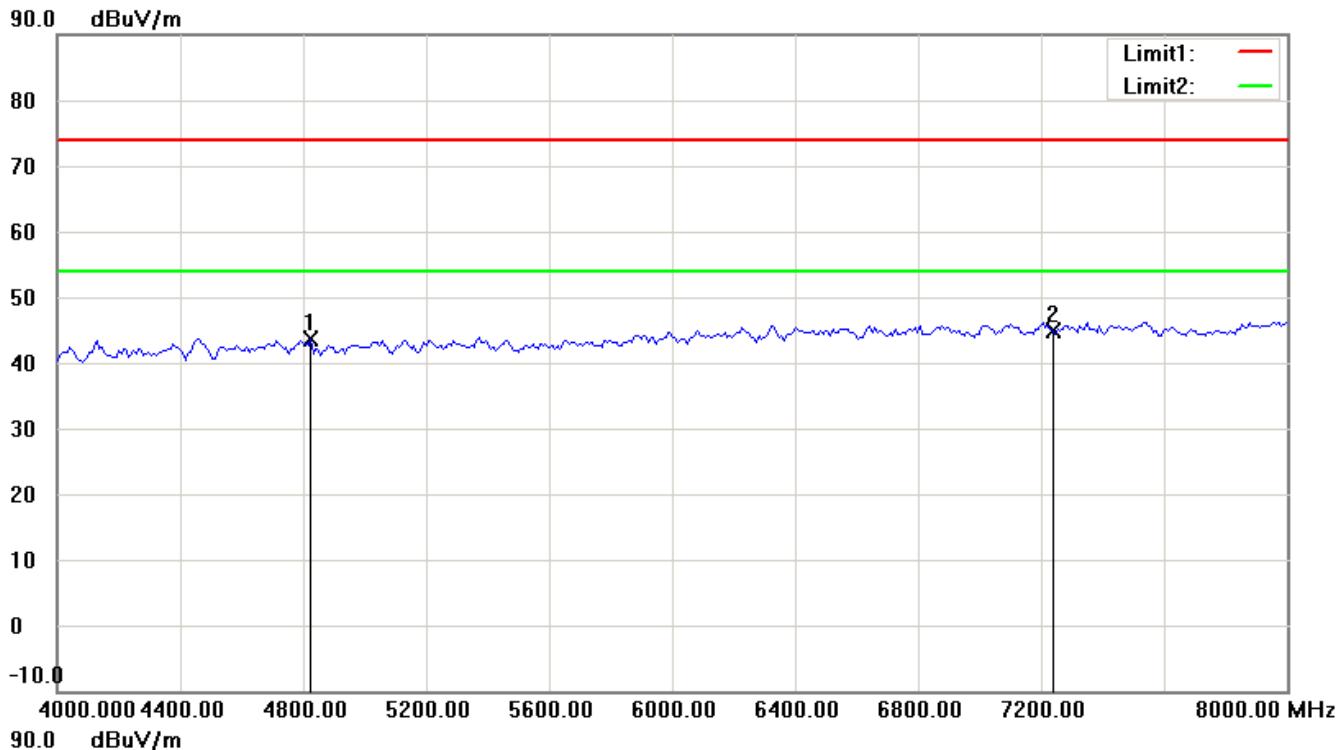
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FCC ID: 2AA4J-W6M2130813478



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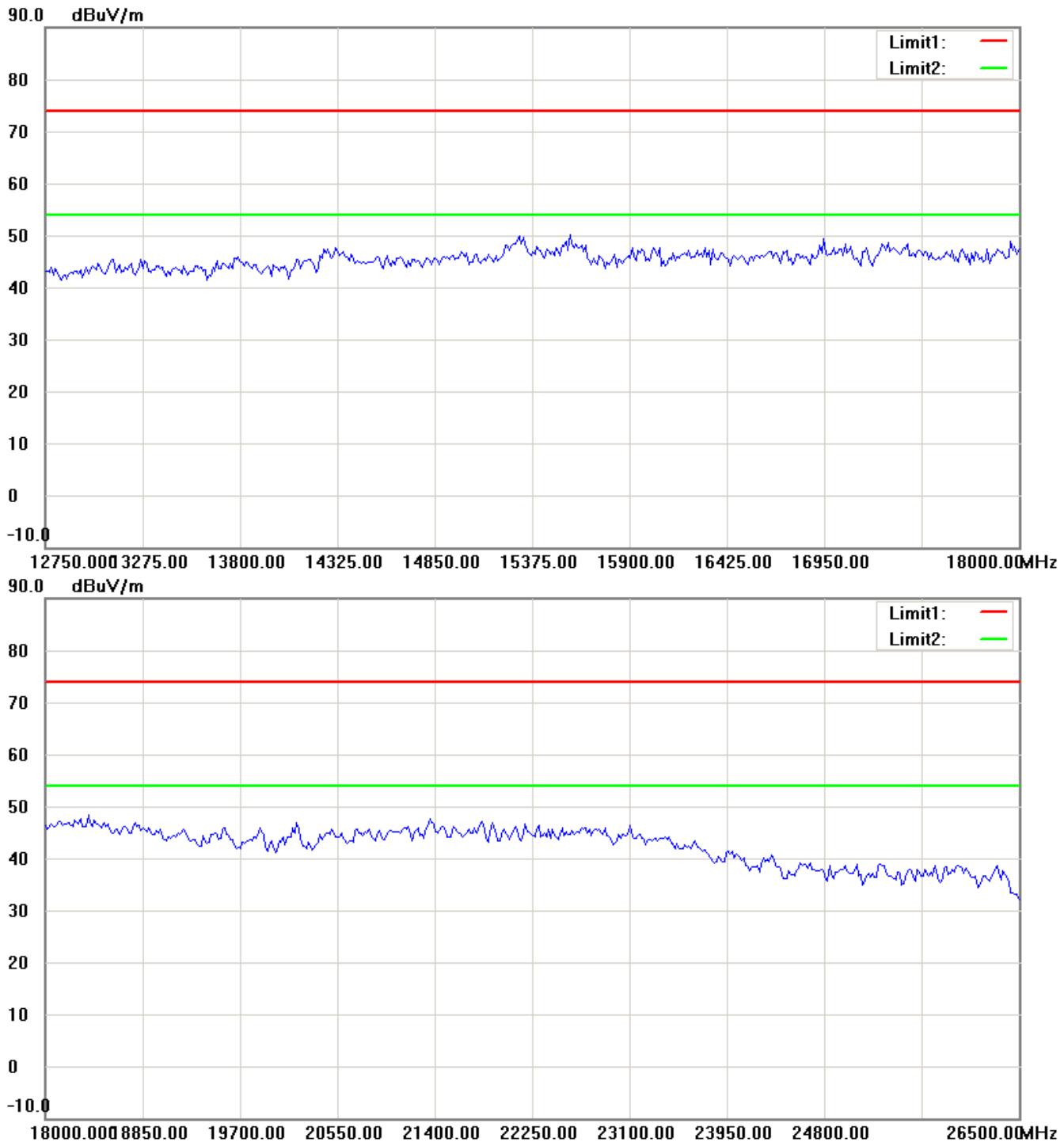
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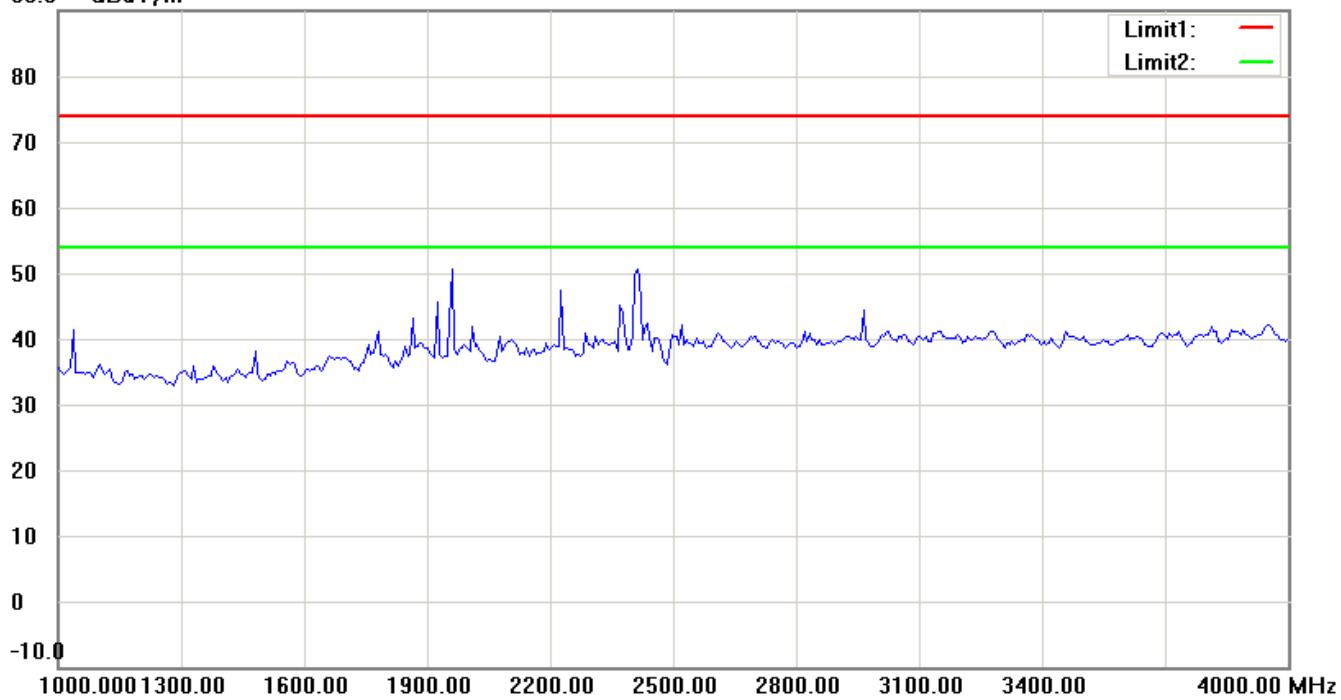
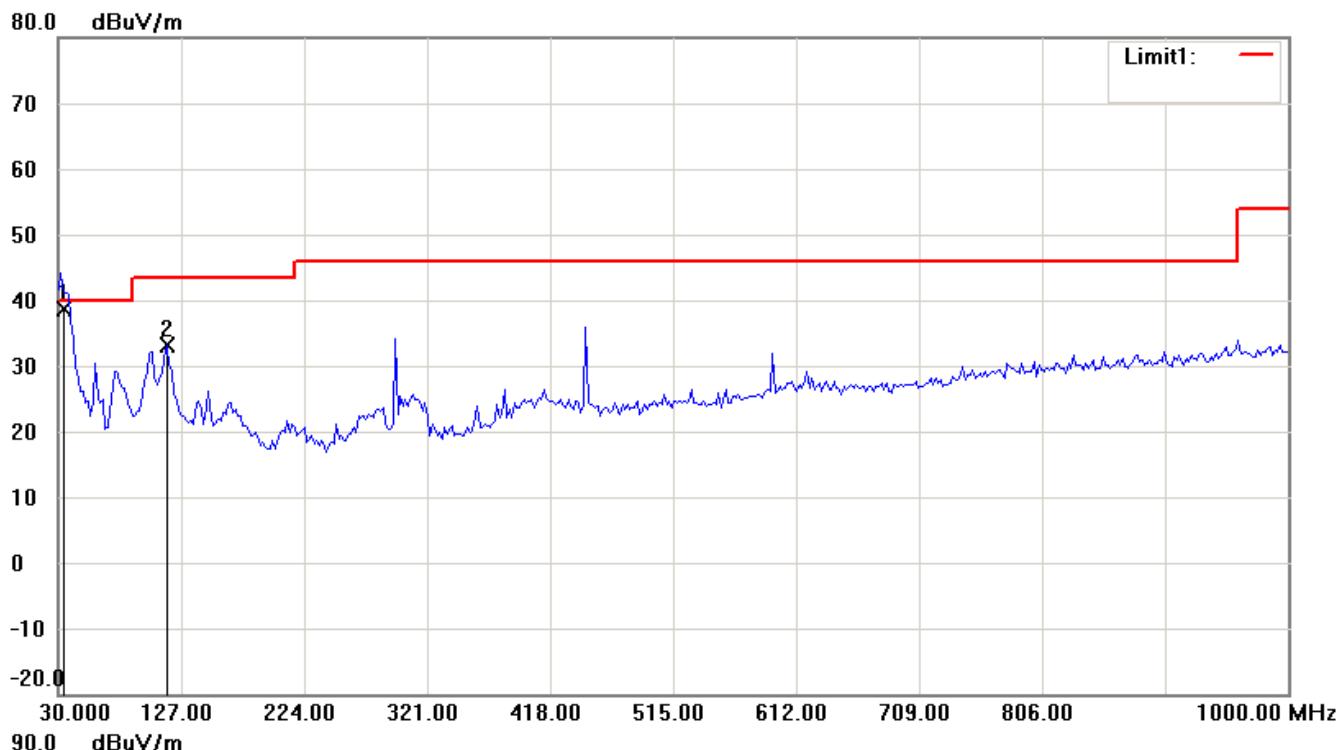


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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

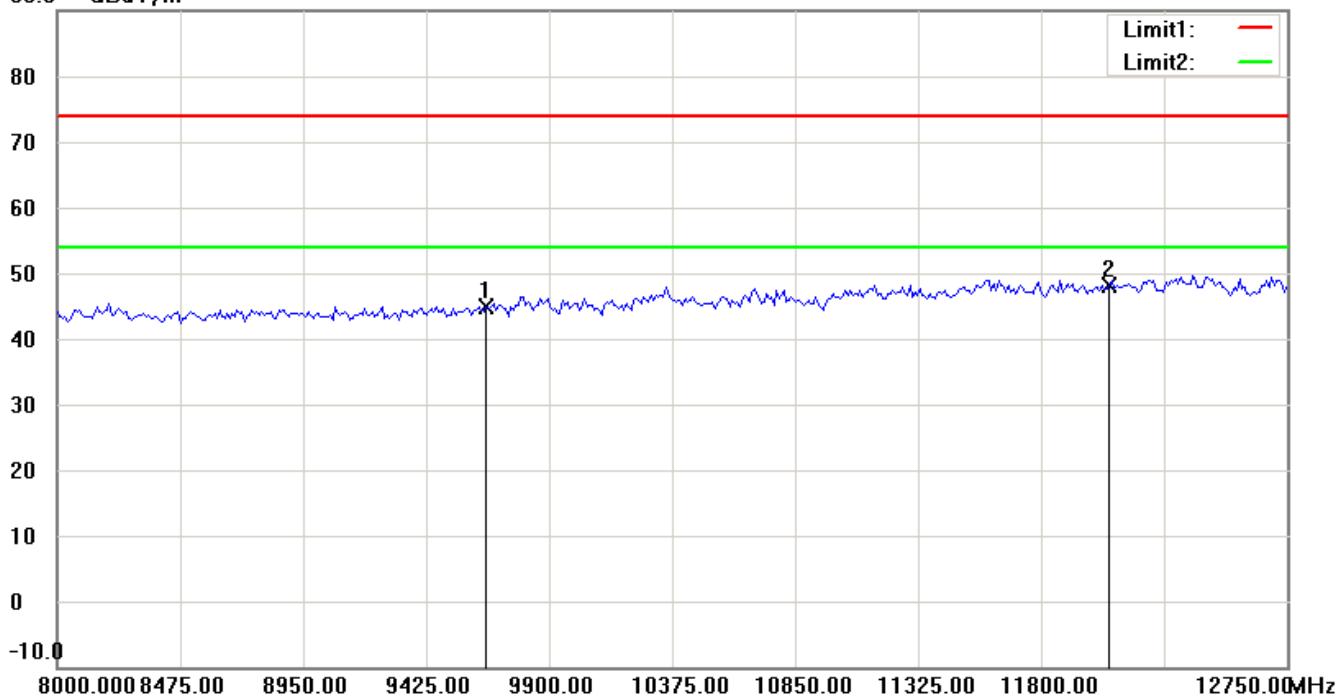
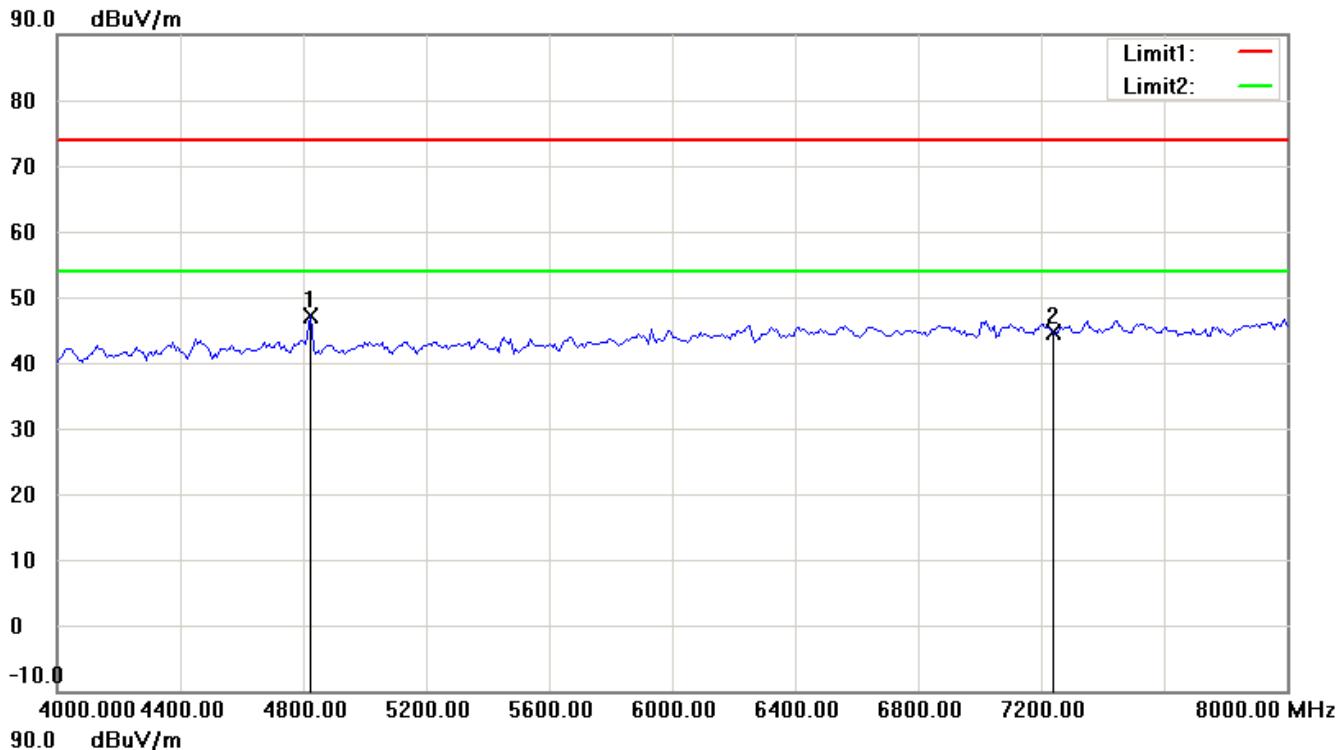
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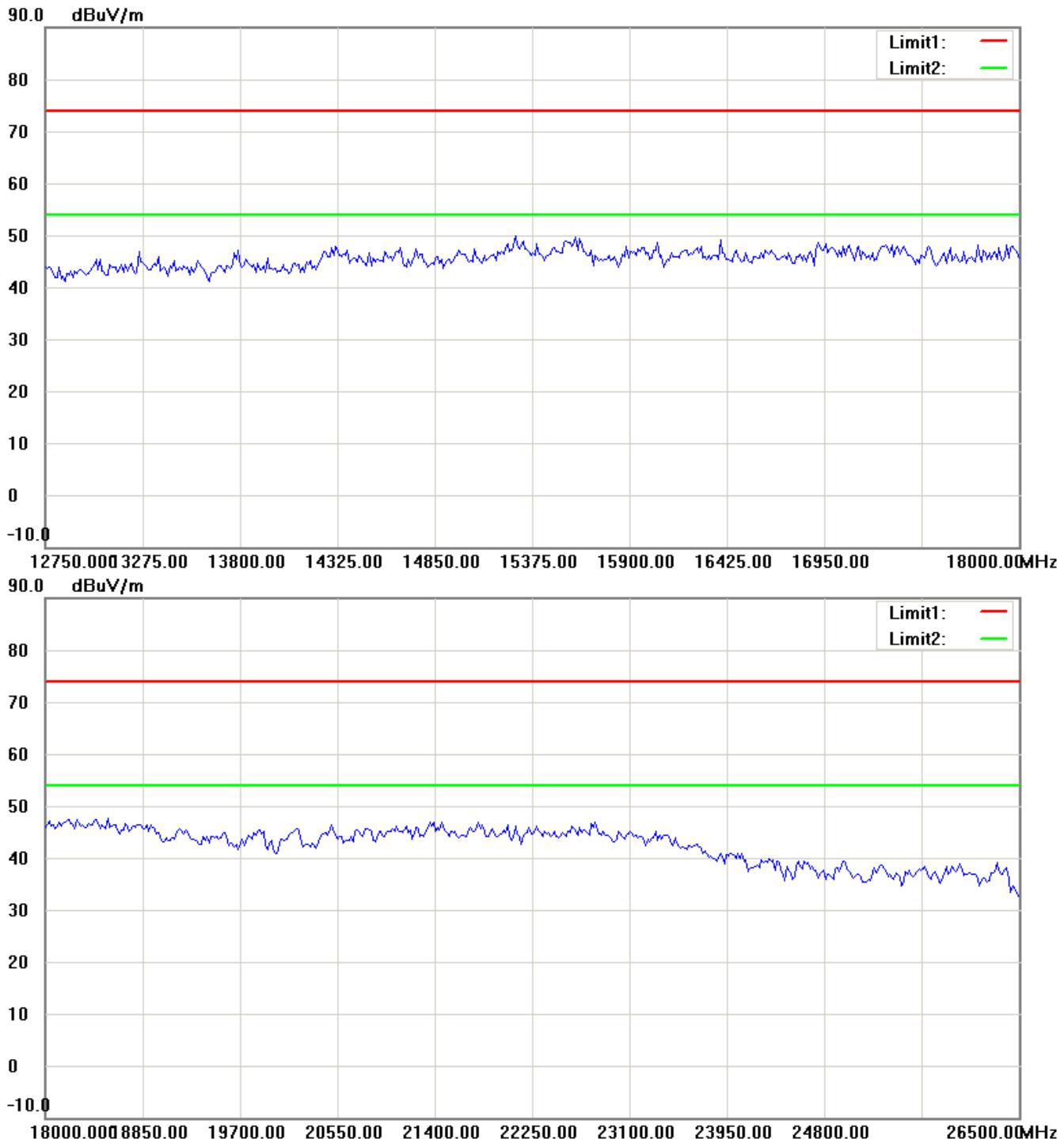
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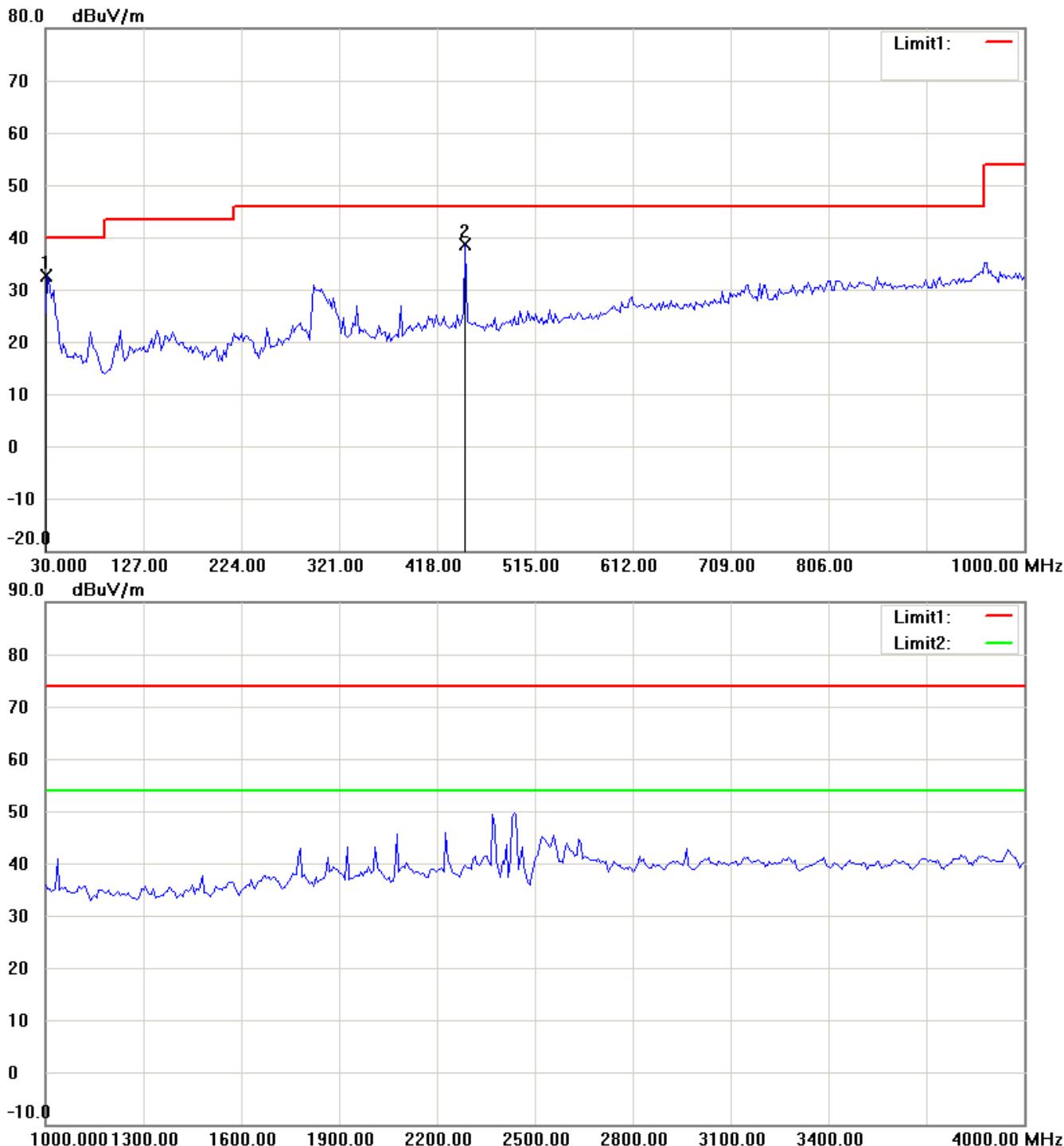
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FCC ID: 2AA4J-W6M2130813478

802.11b ch6 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

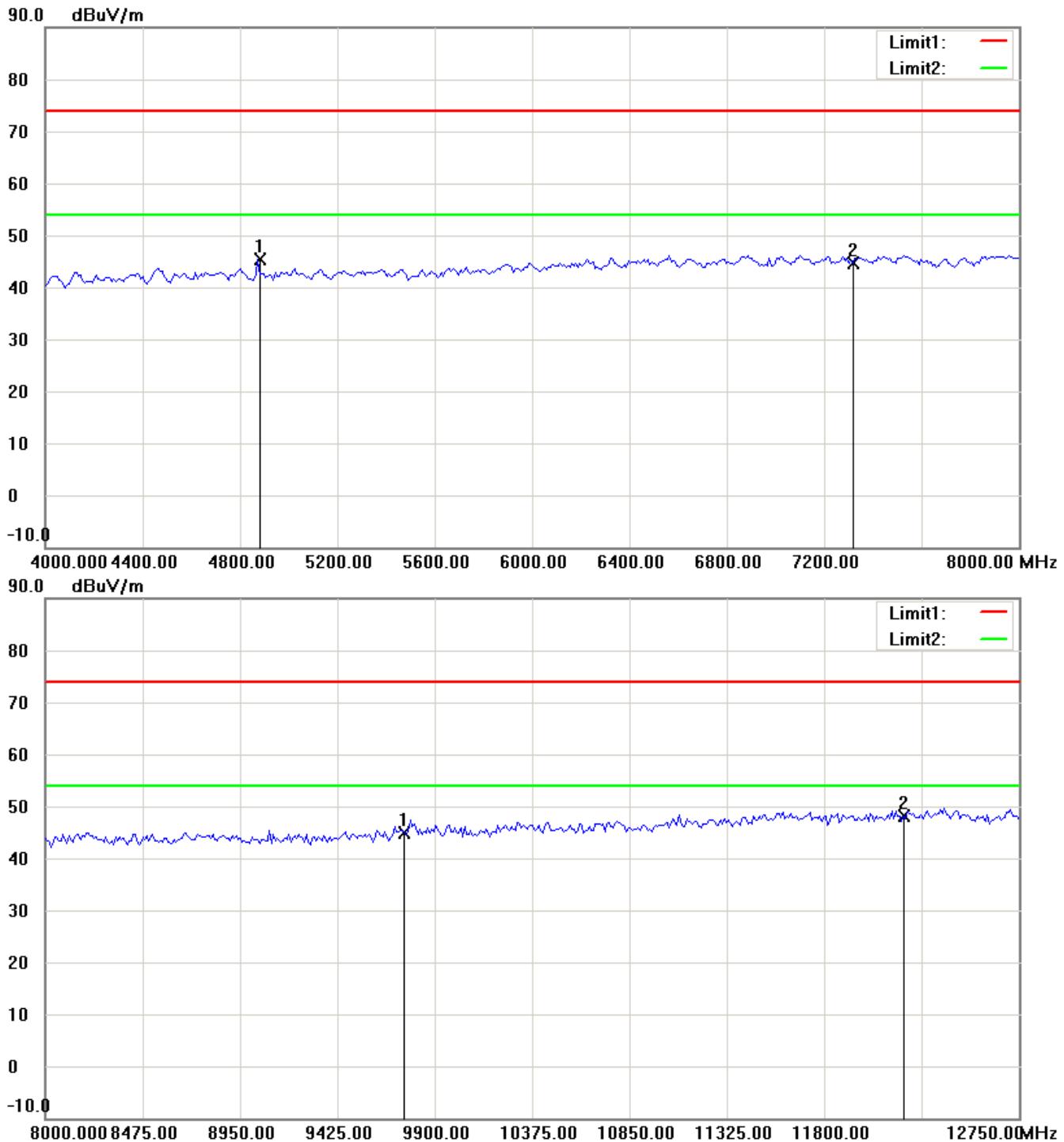
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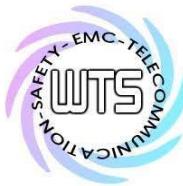
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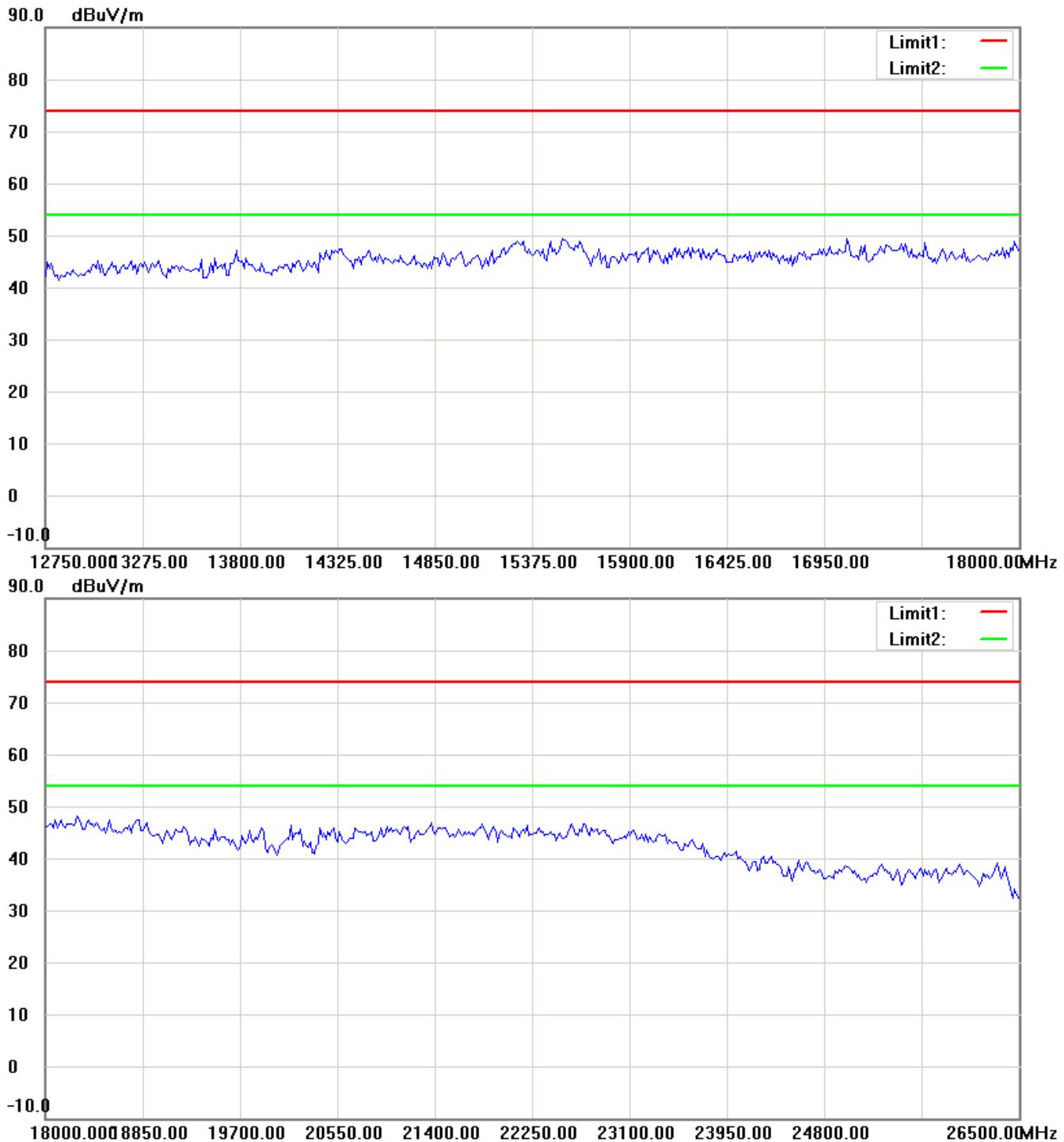
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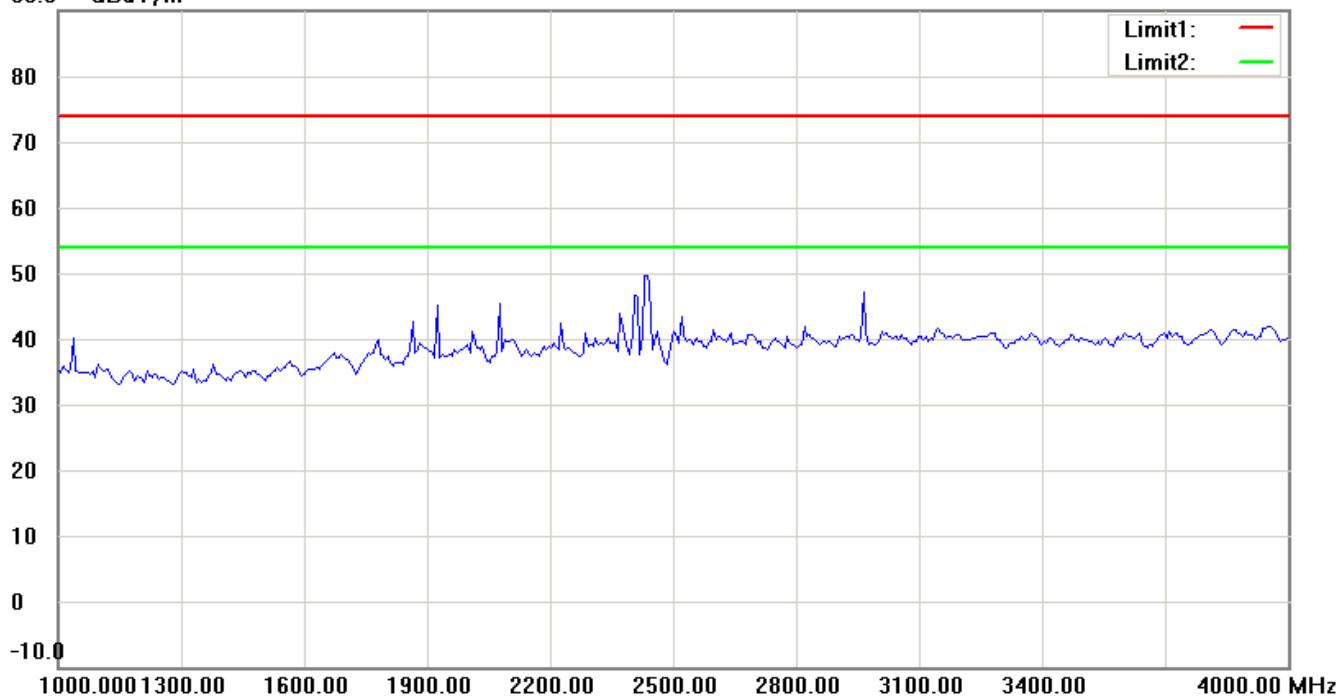
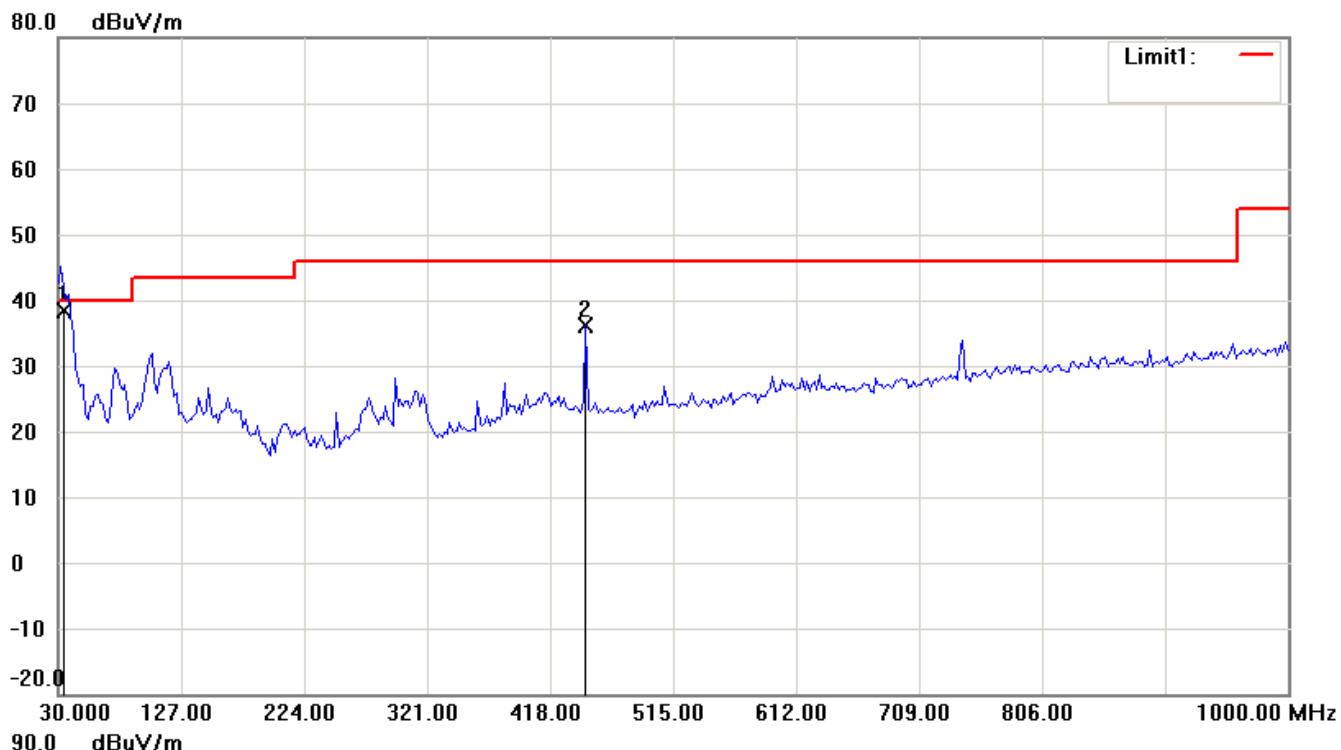


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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

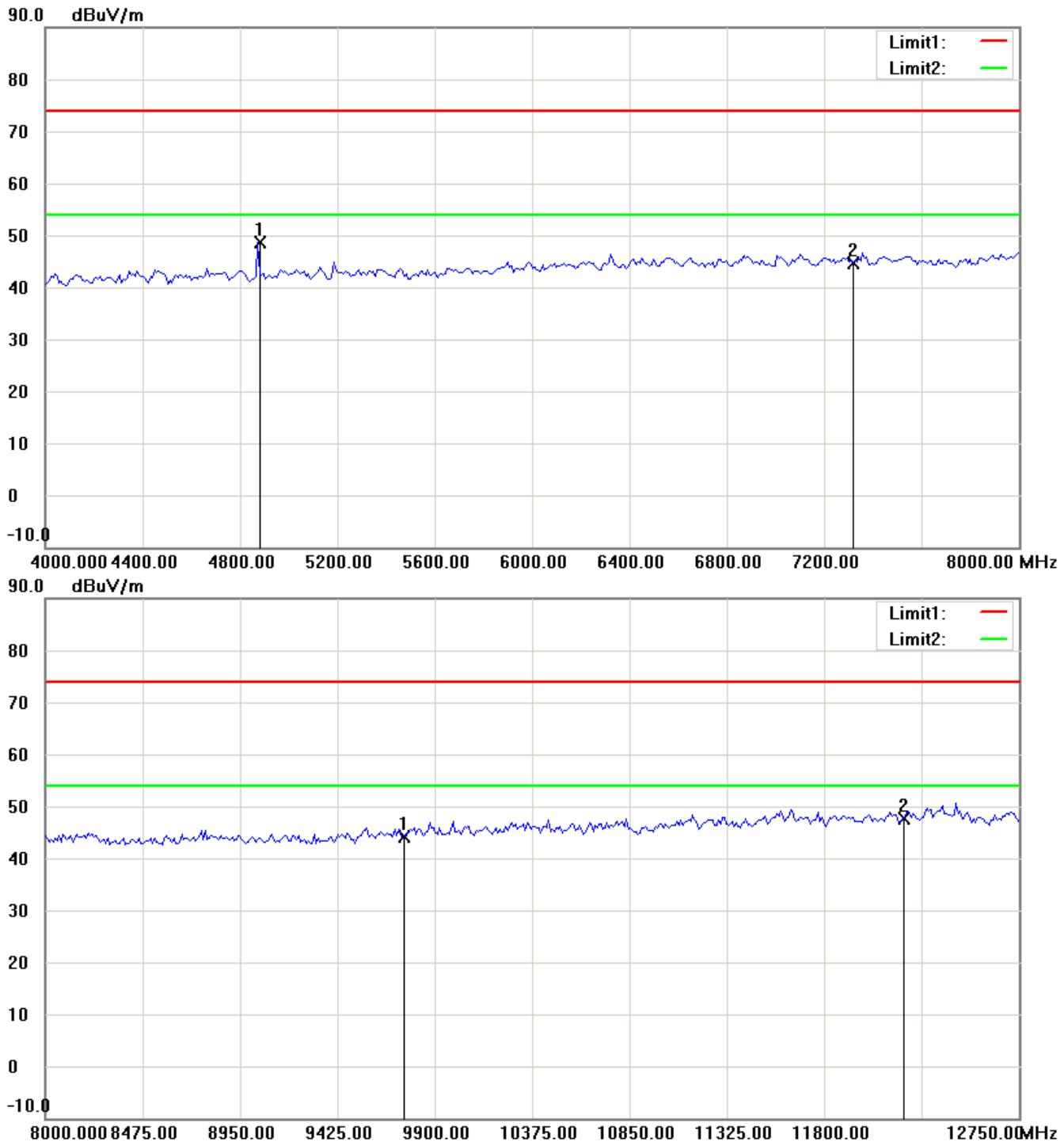
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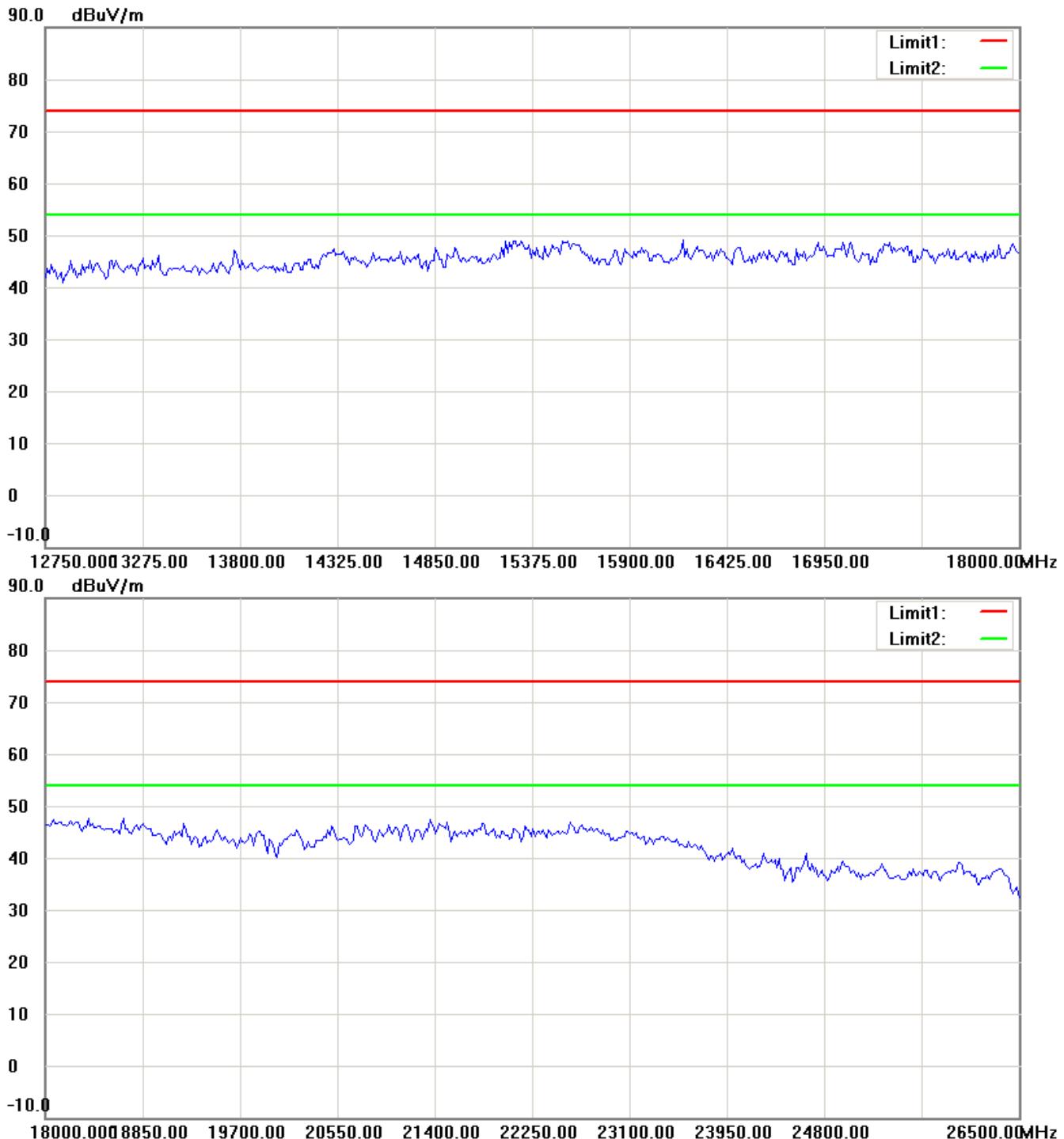
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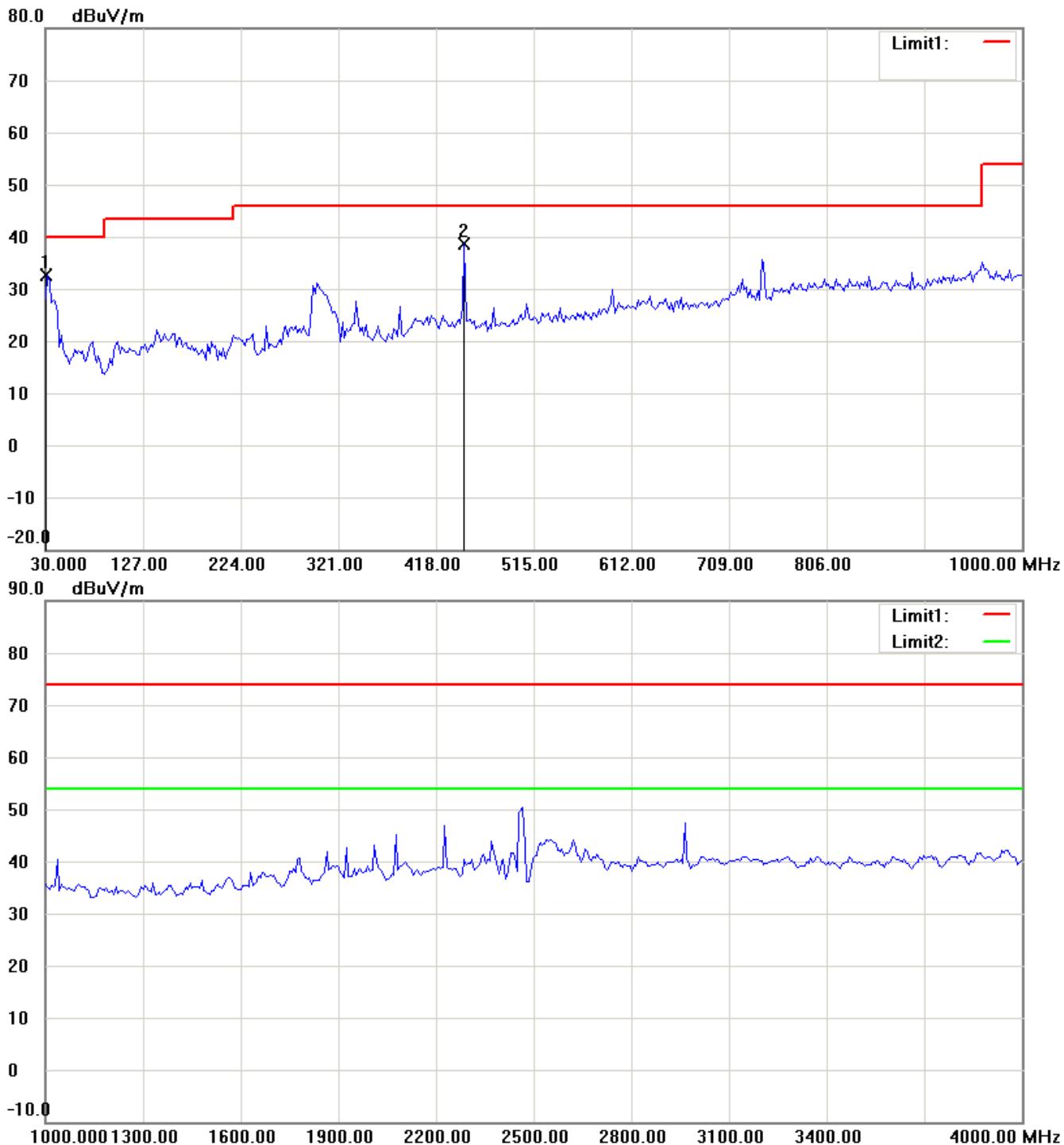
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

802.11b ch11 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

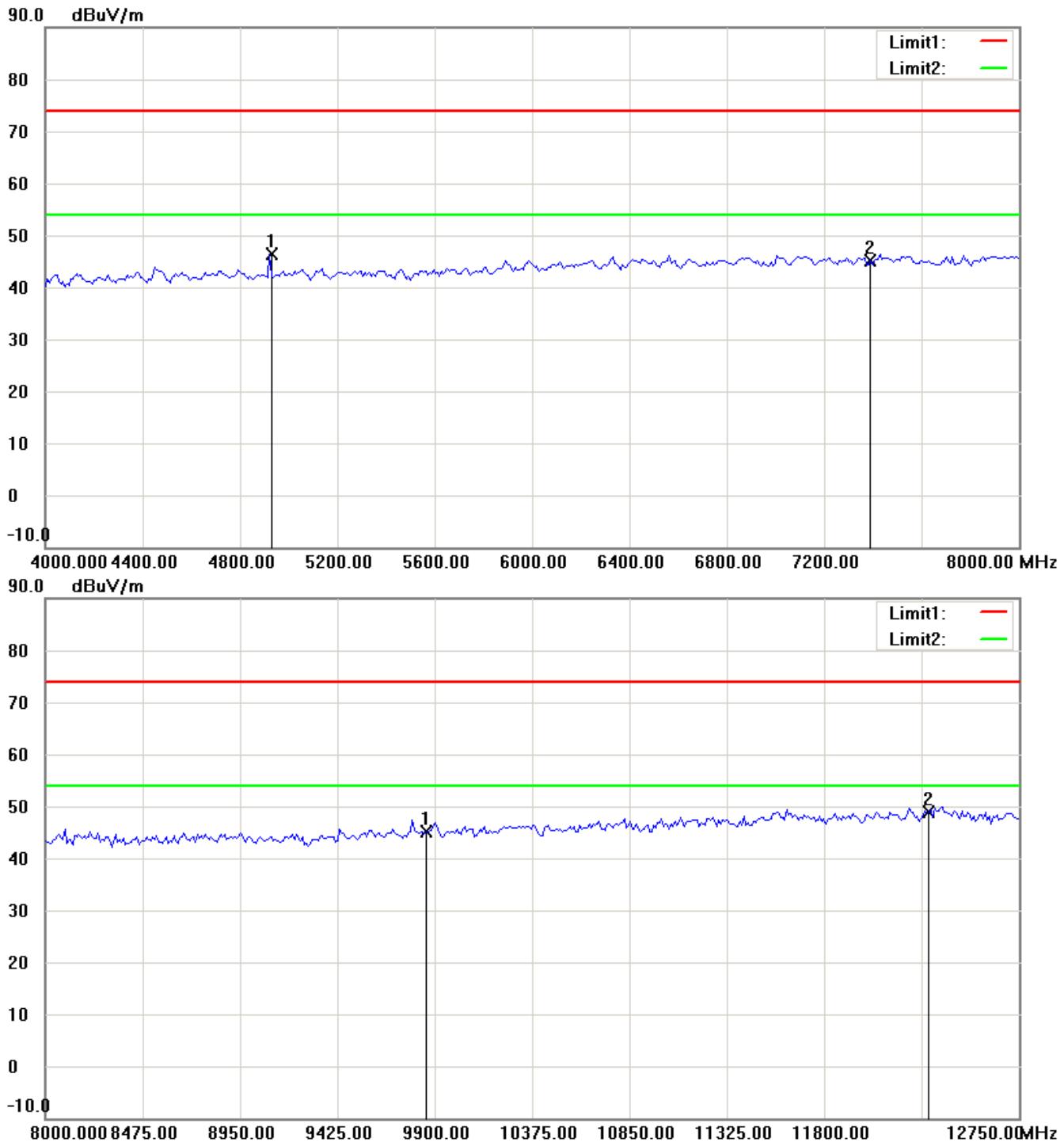
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

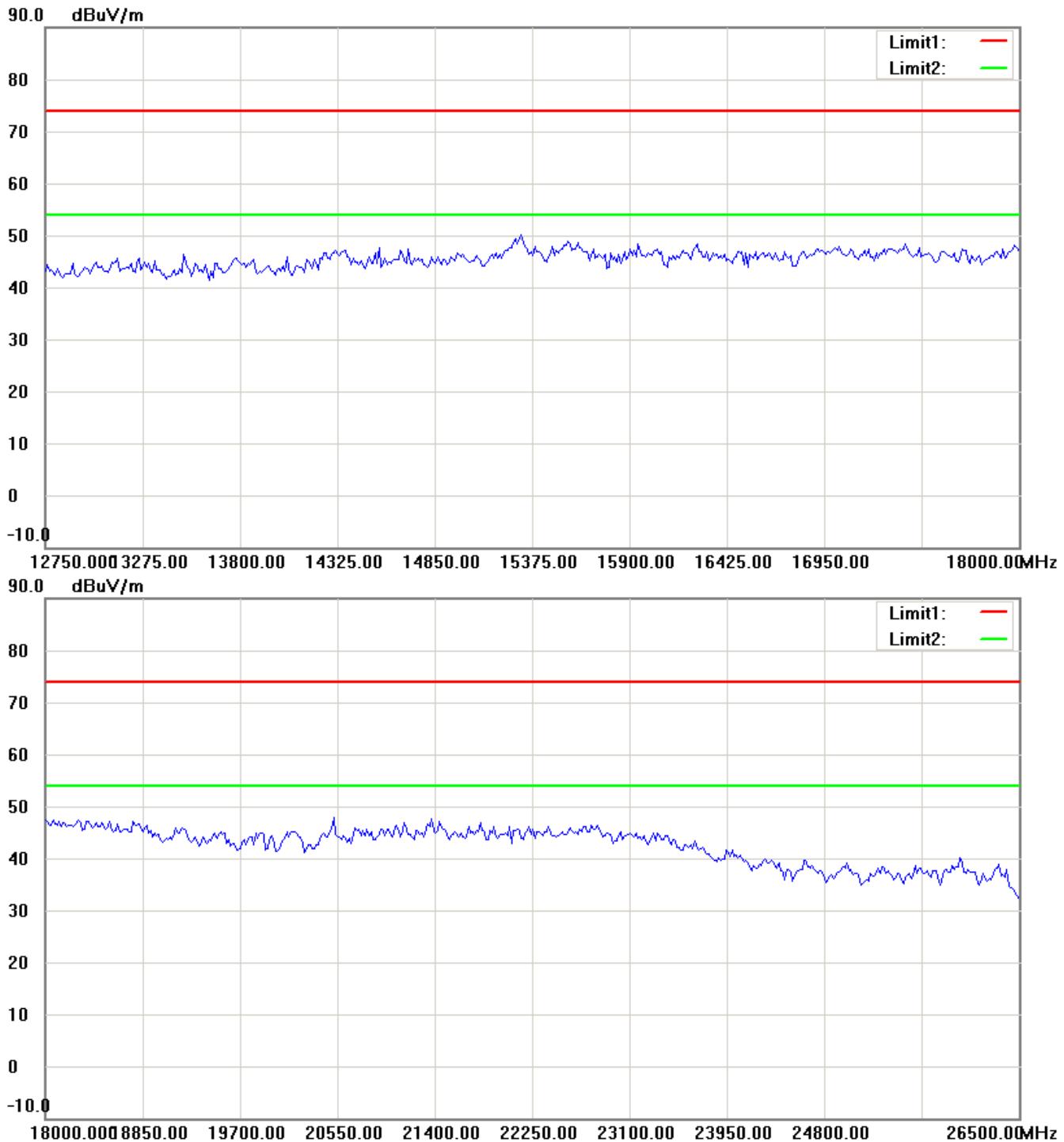
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Up Line: Peak Limit Line Down Line: Ave Limit Line

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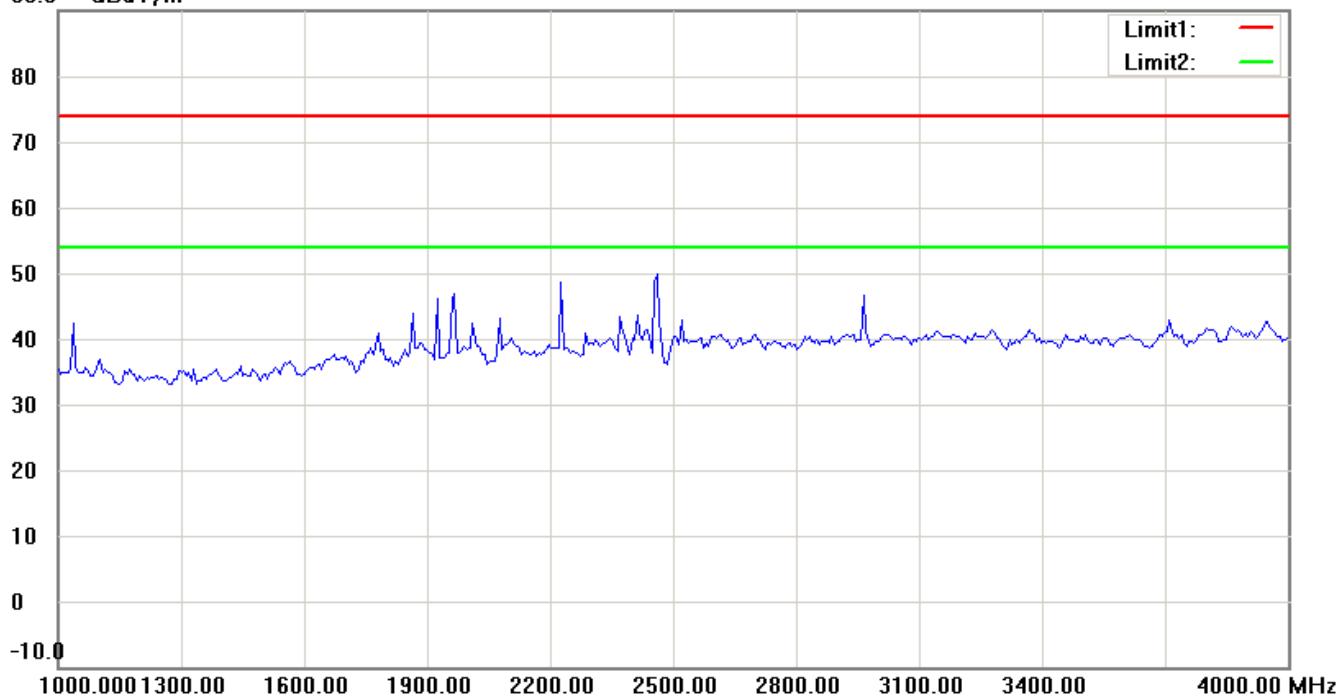
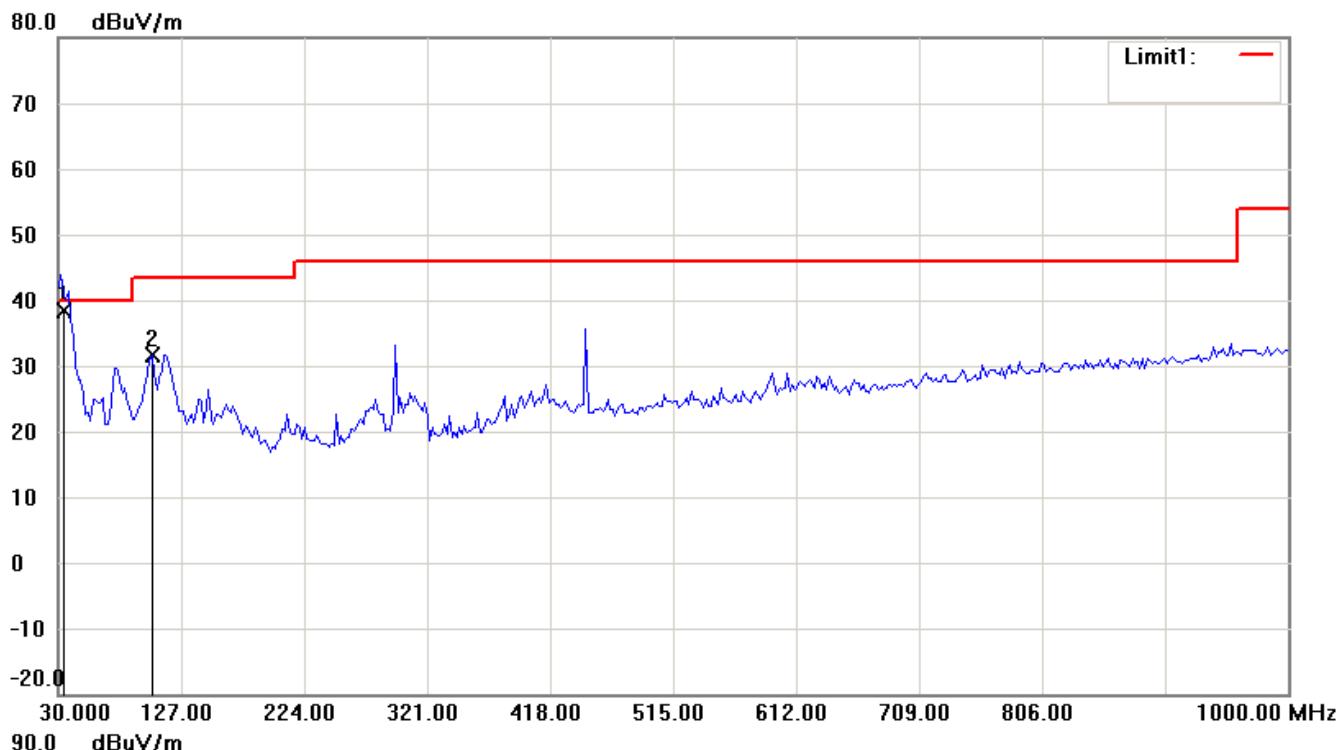


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

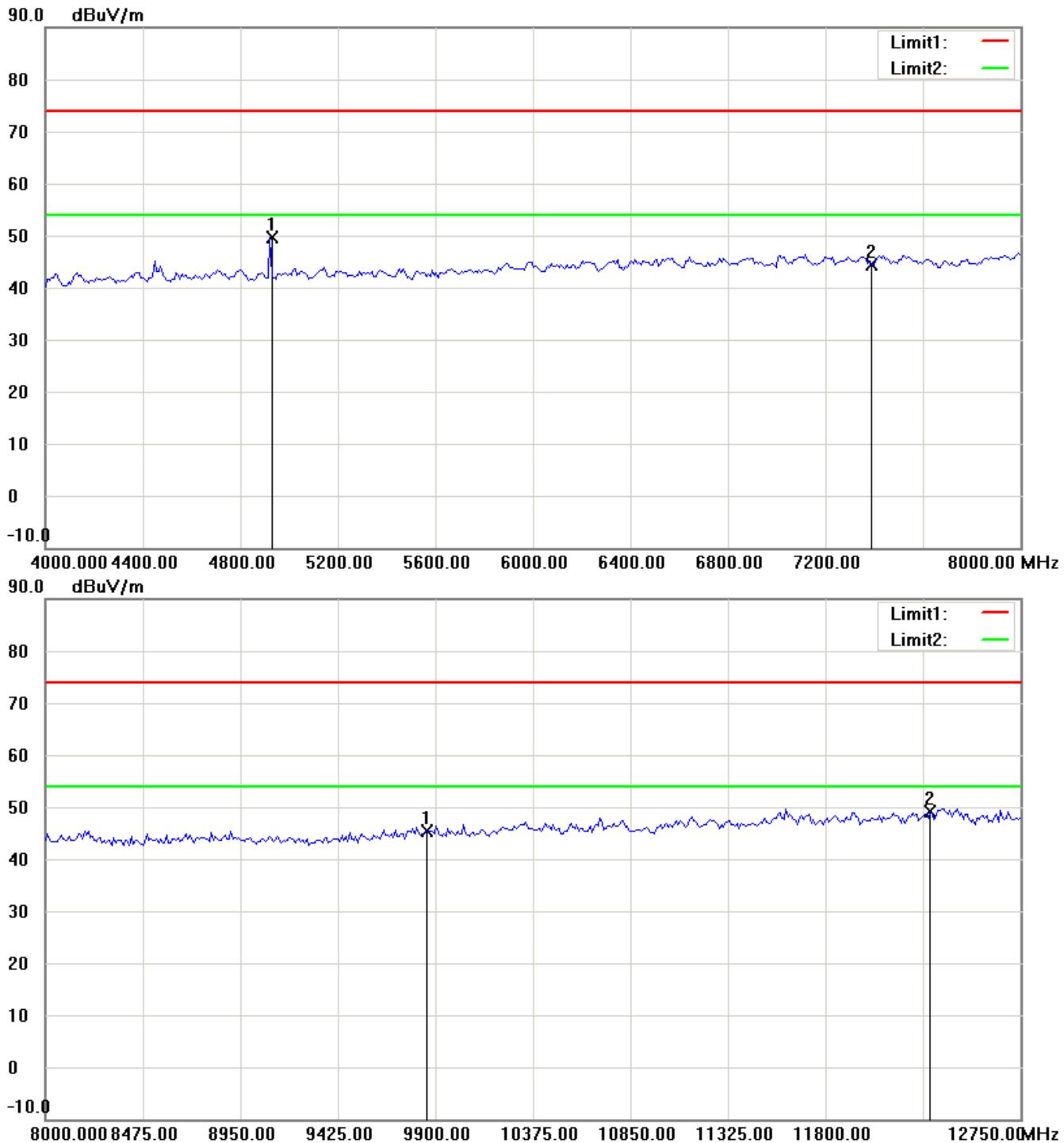
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

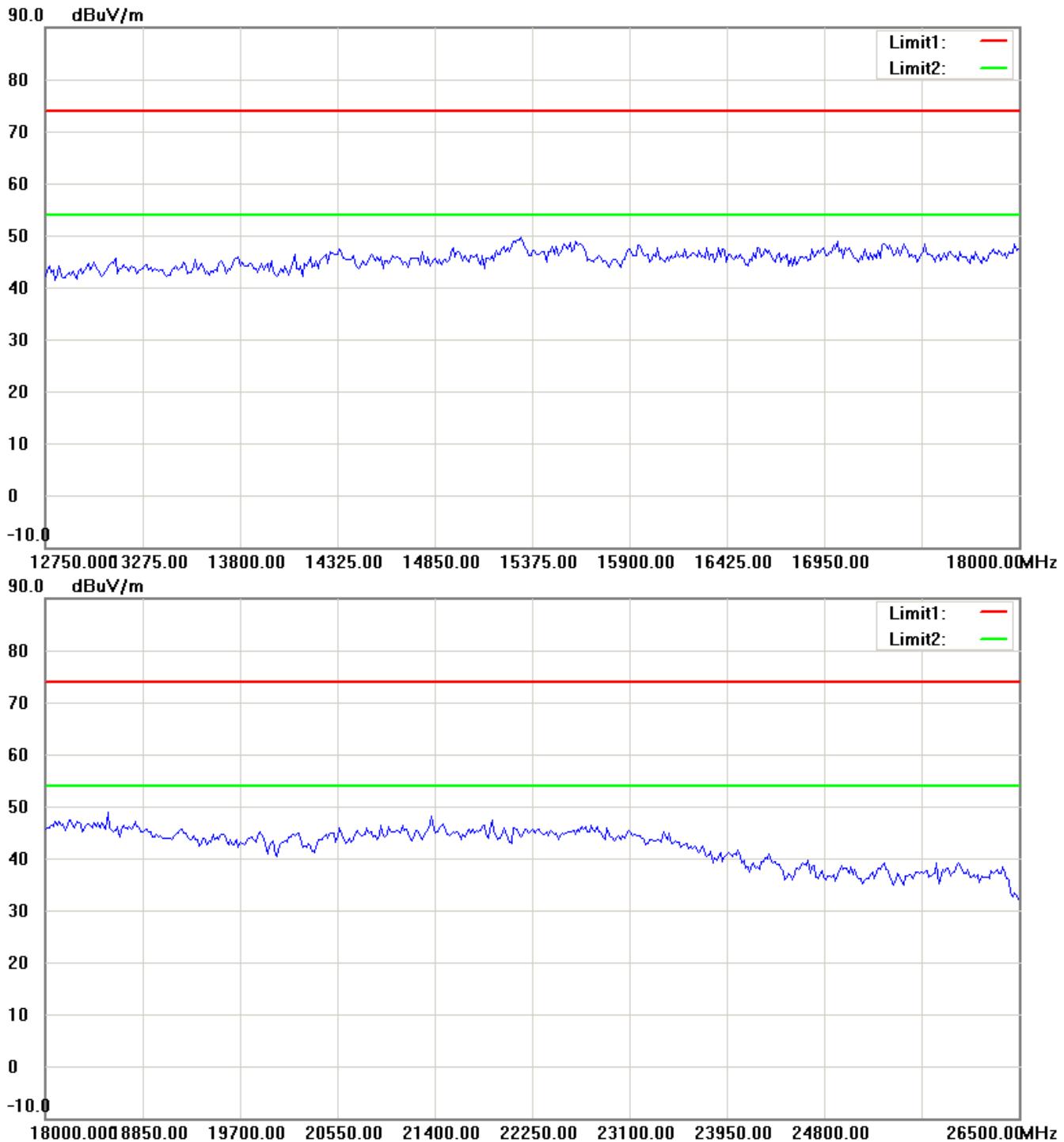
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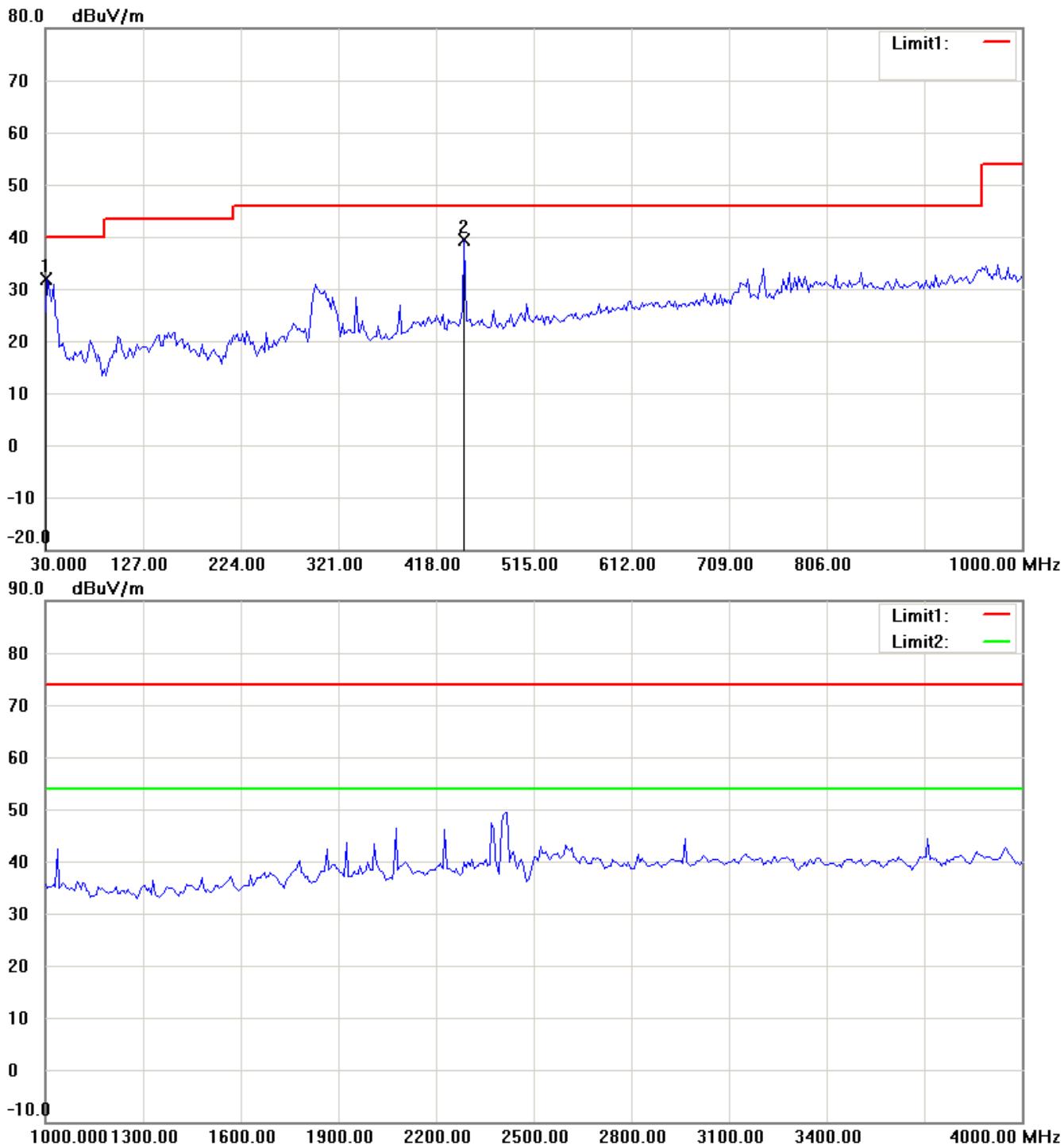
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

802.11g ch1 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

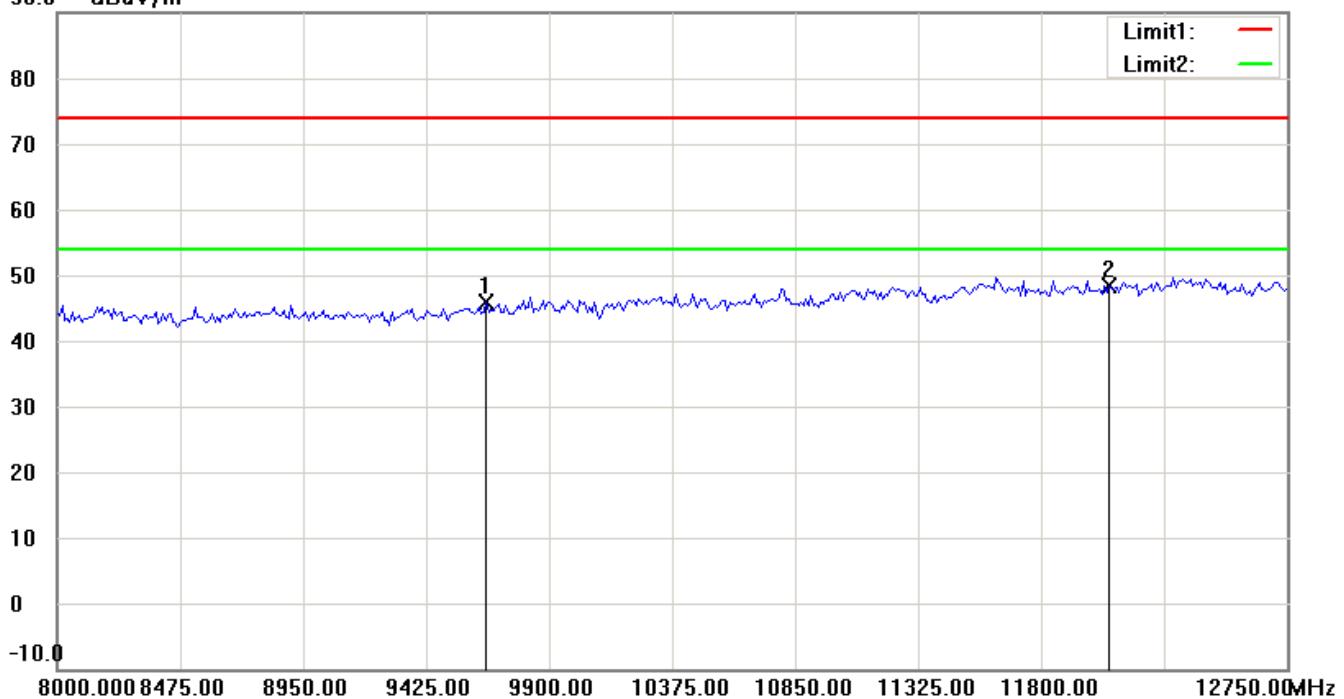
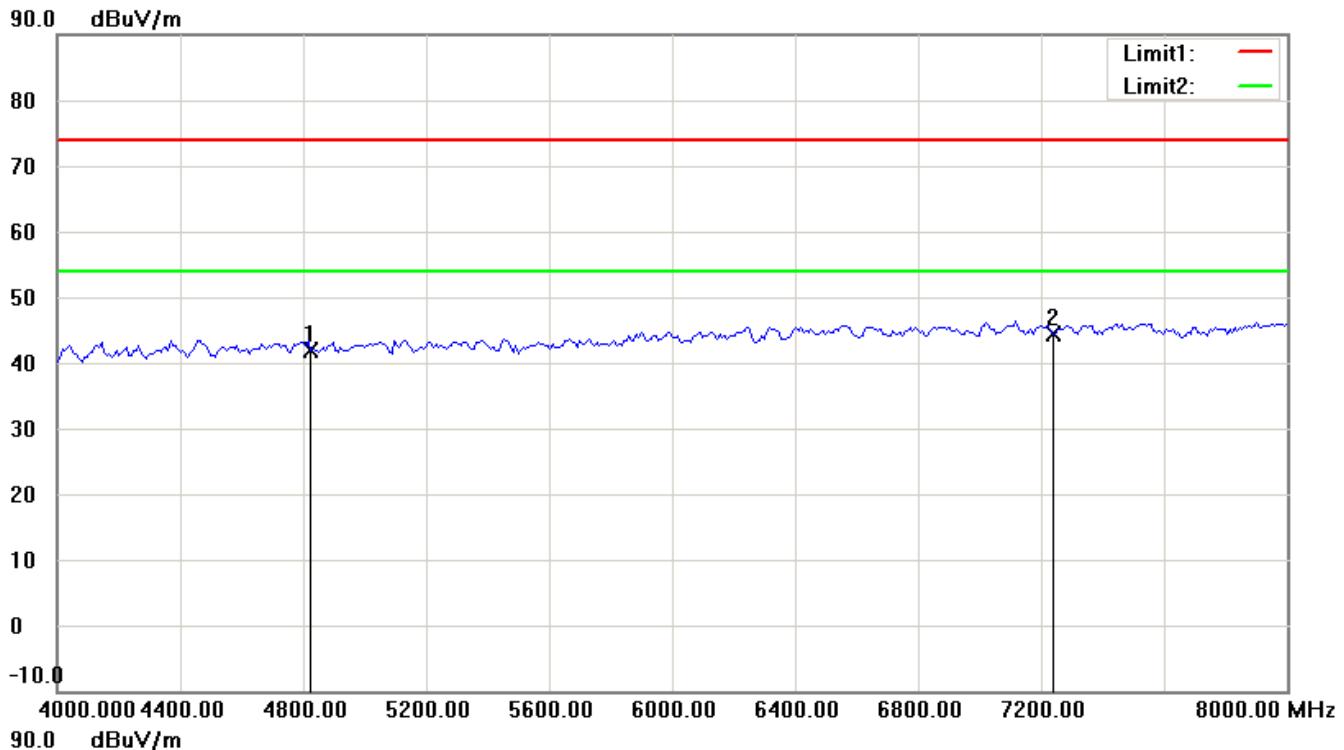
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

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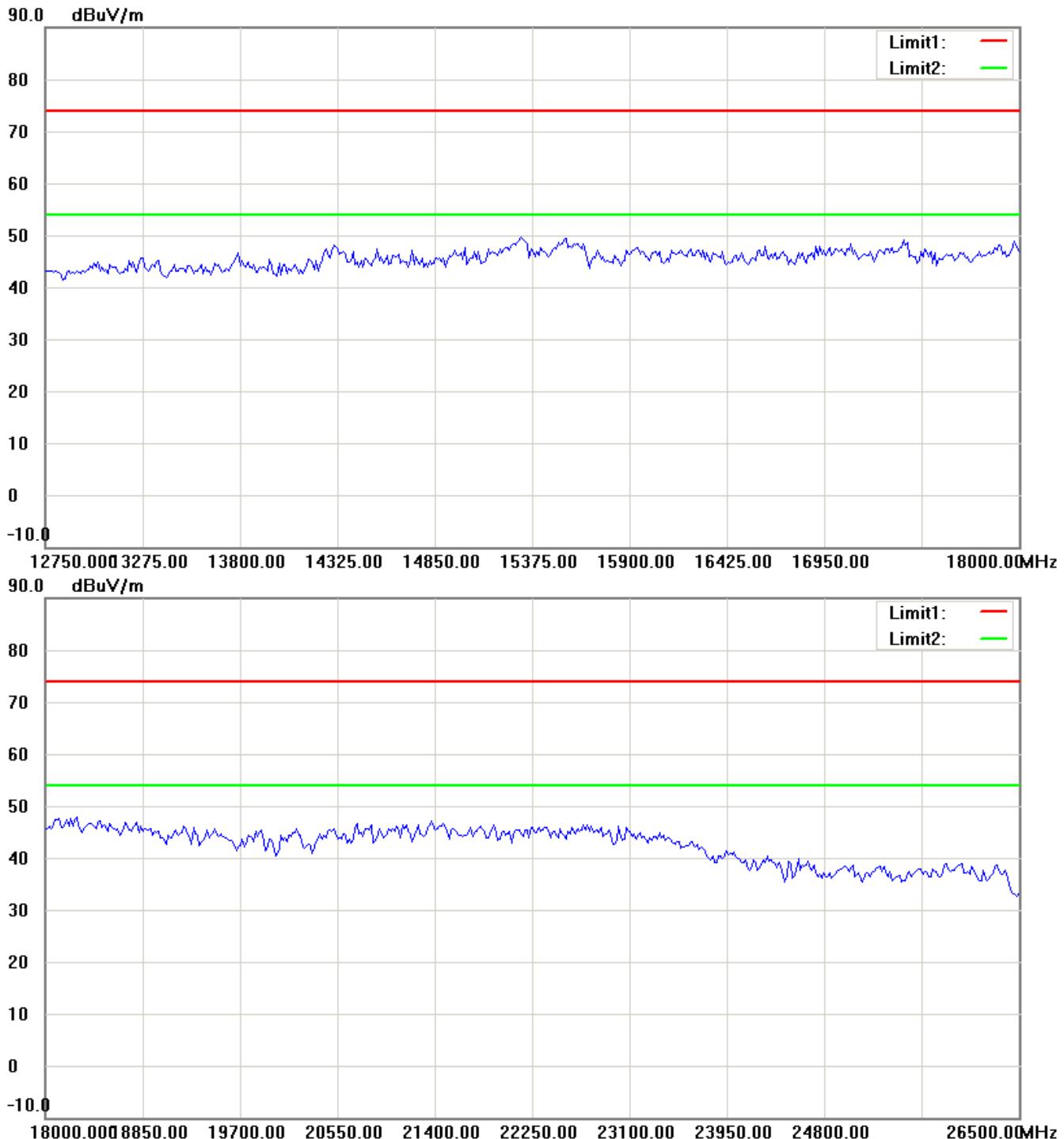
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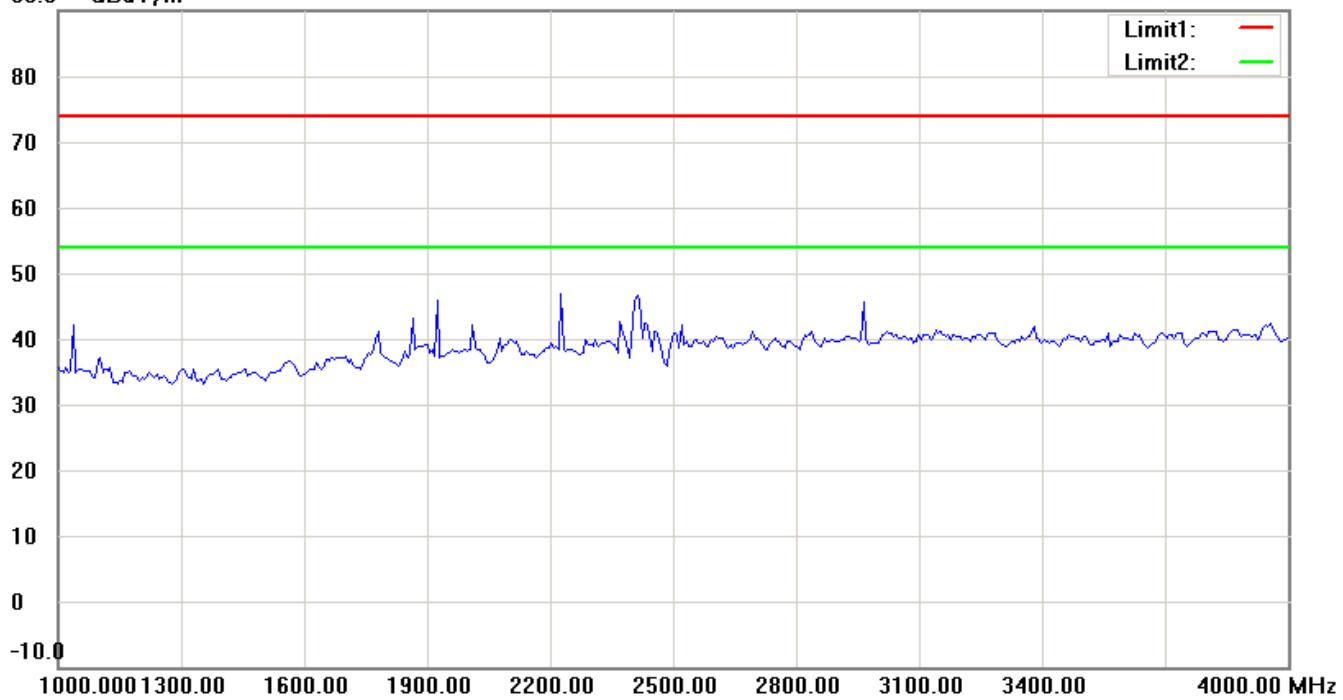
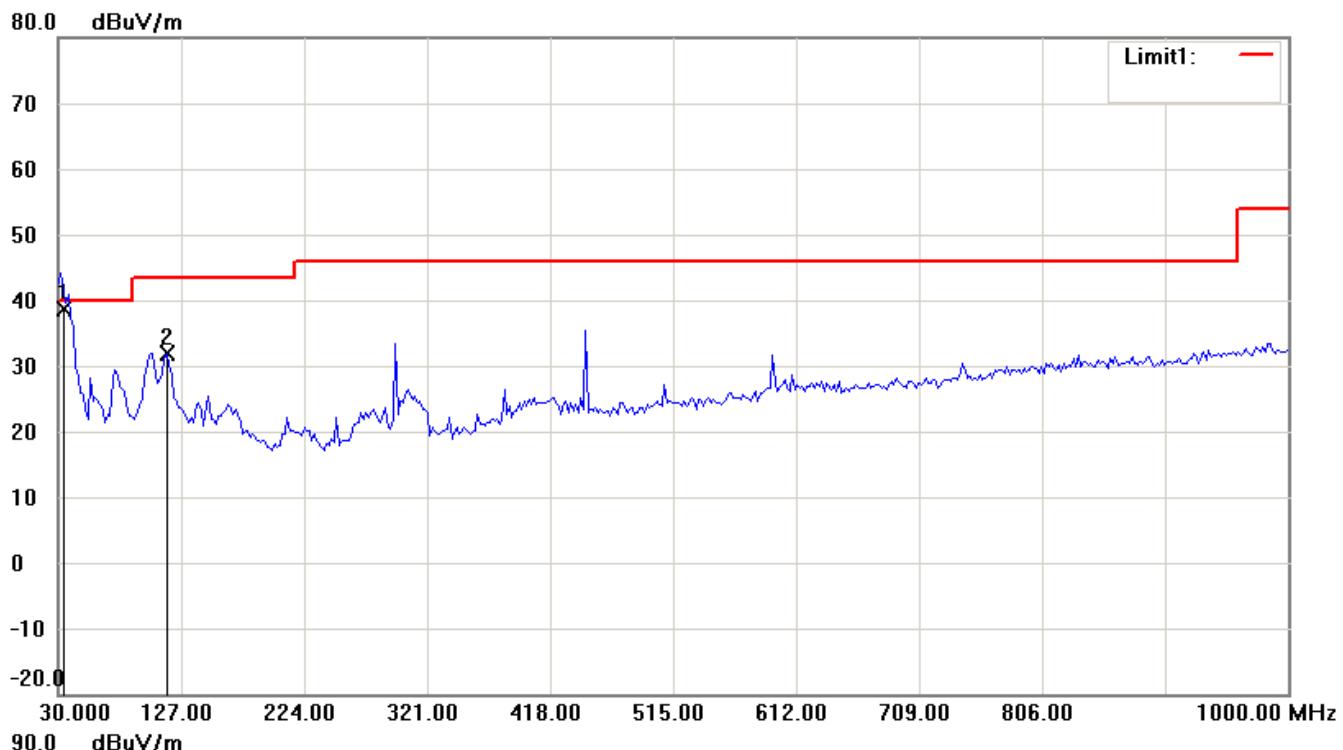


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

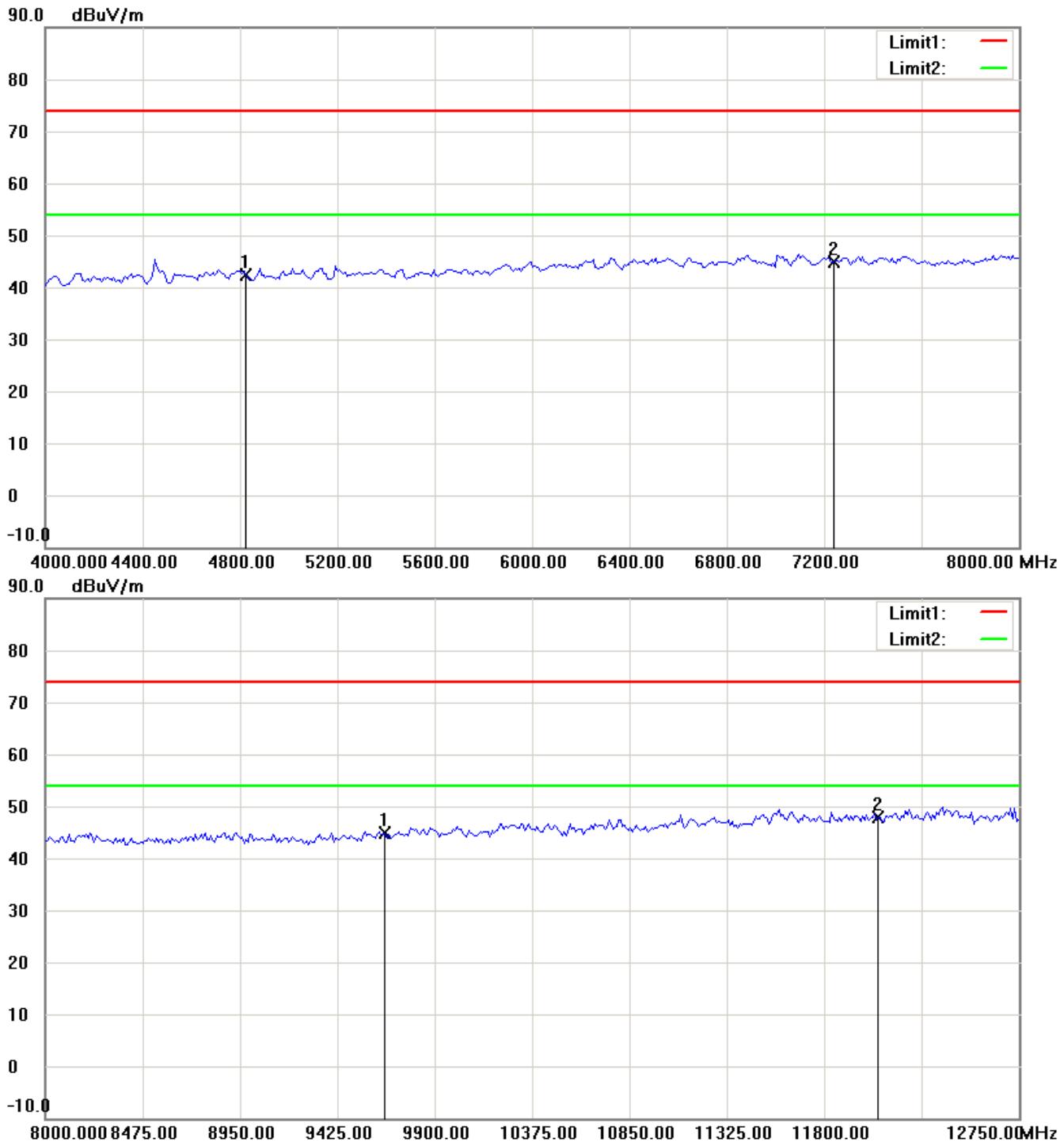
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

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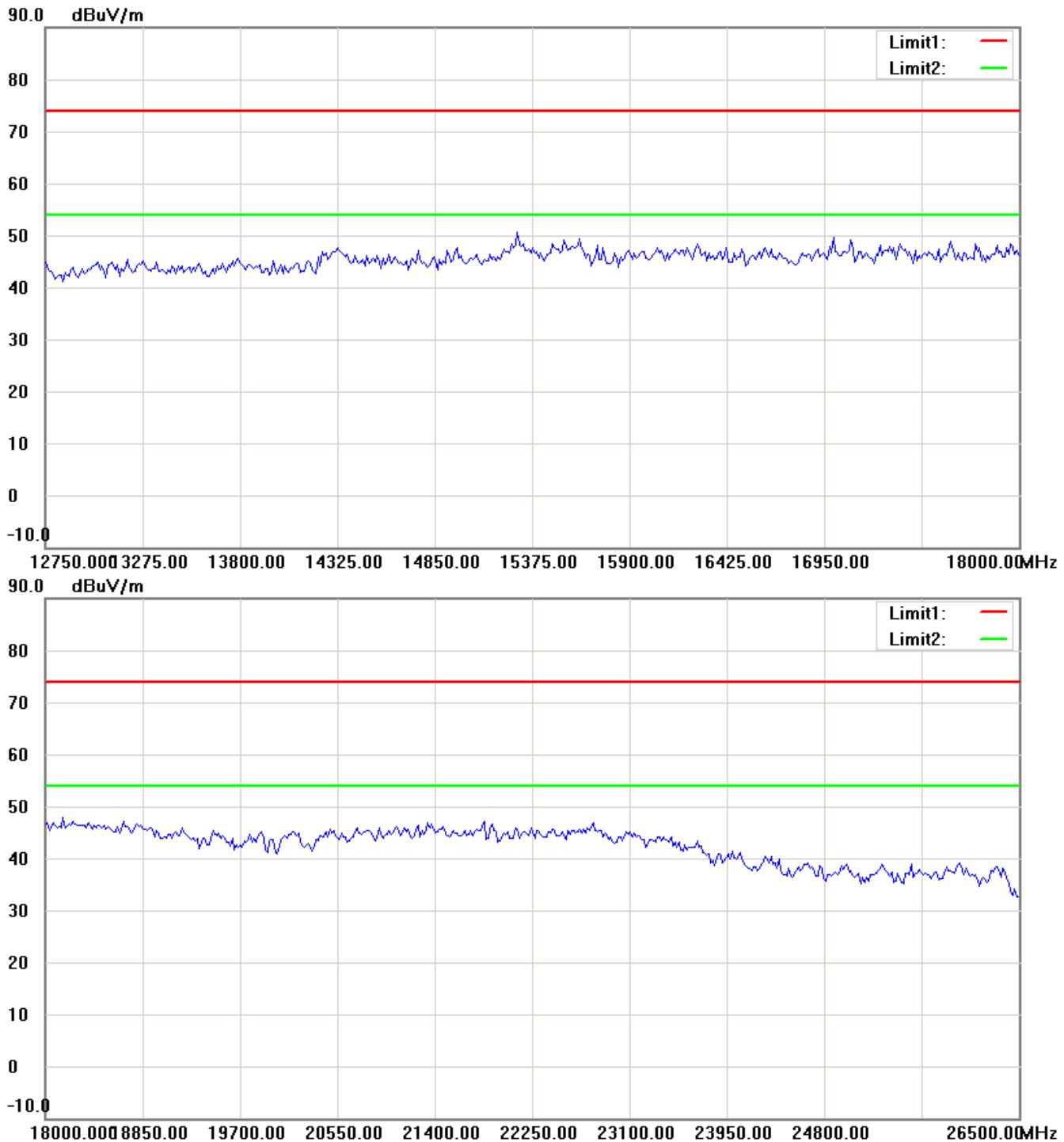
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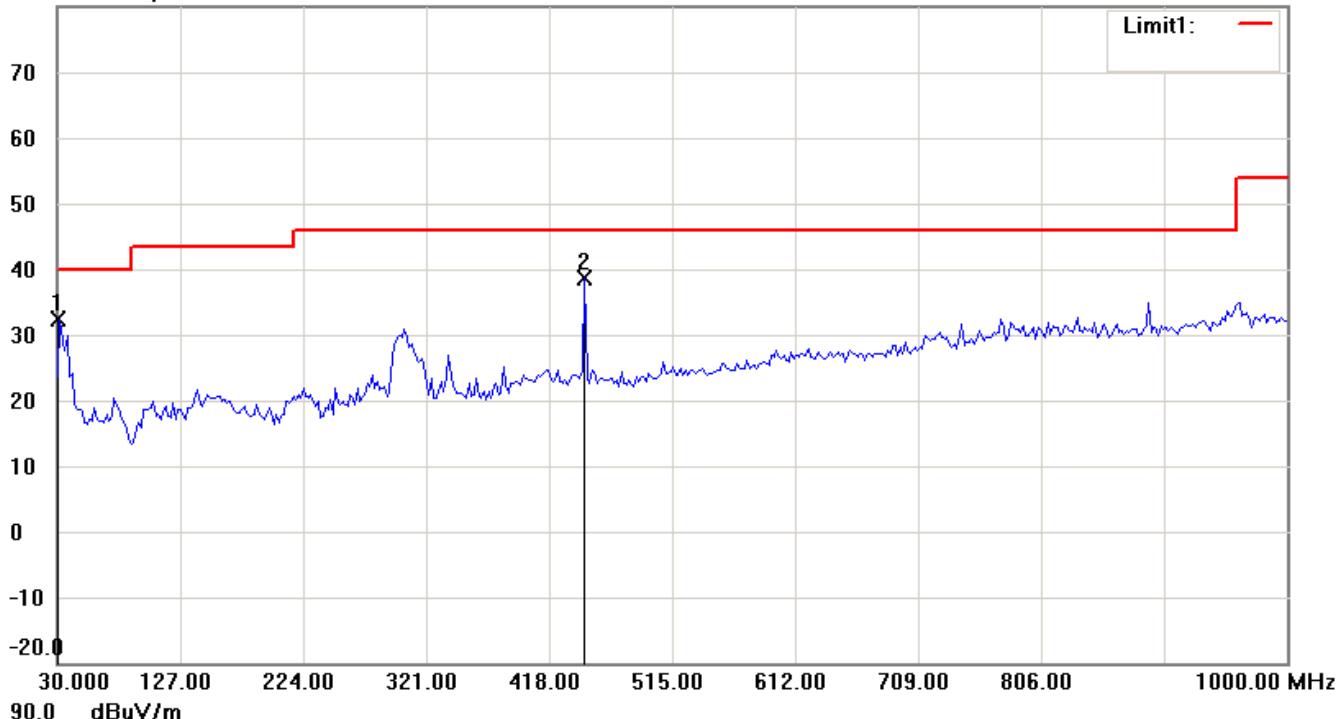
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

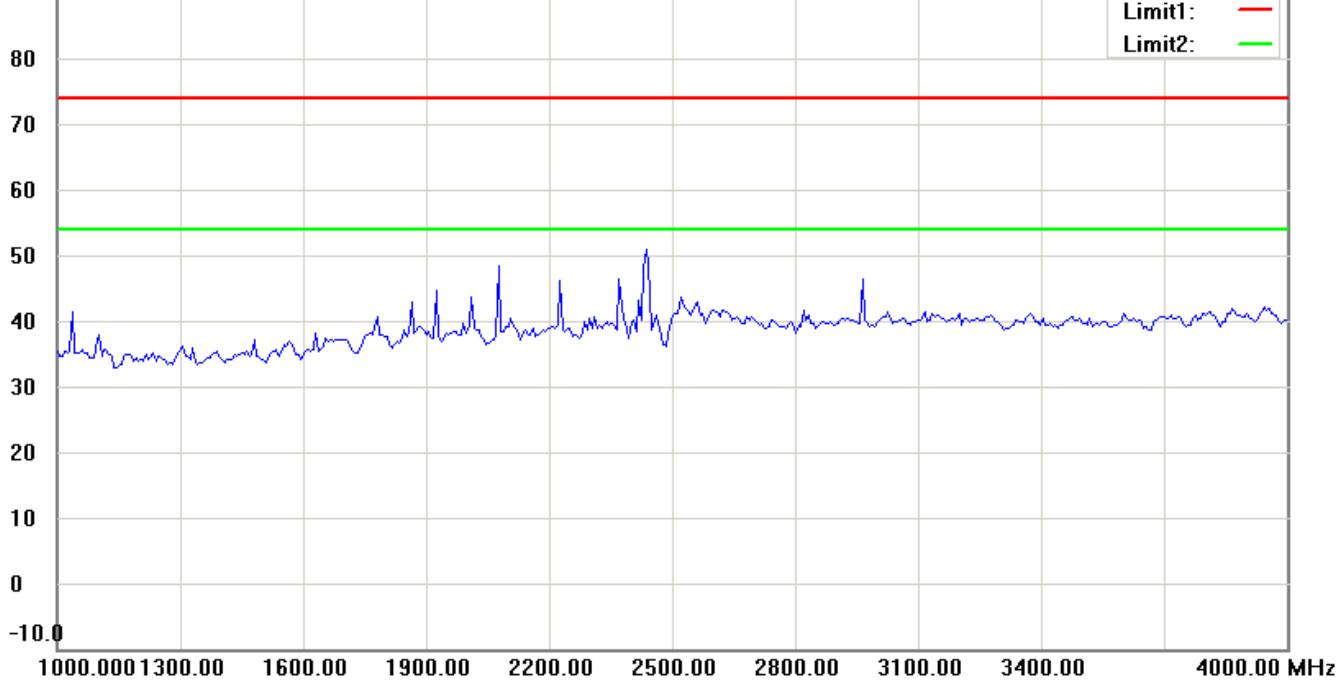
802.11g ch6 TX

Antenna Polarization H

80.0 dBuV/m



90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

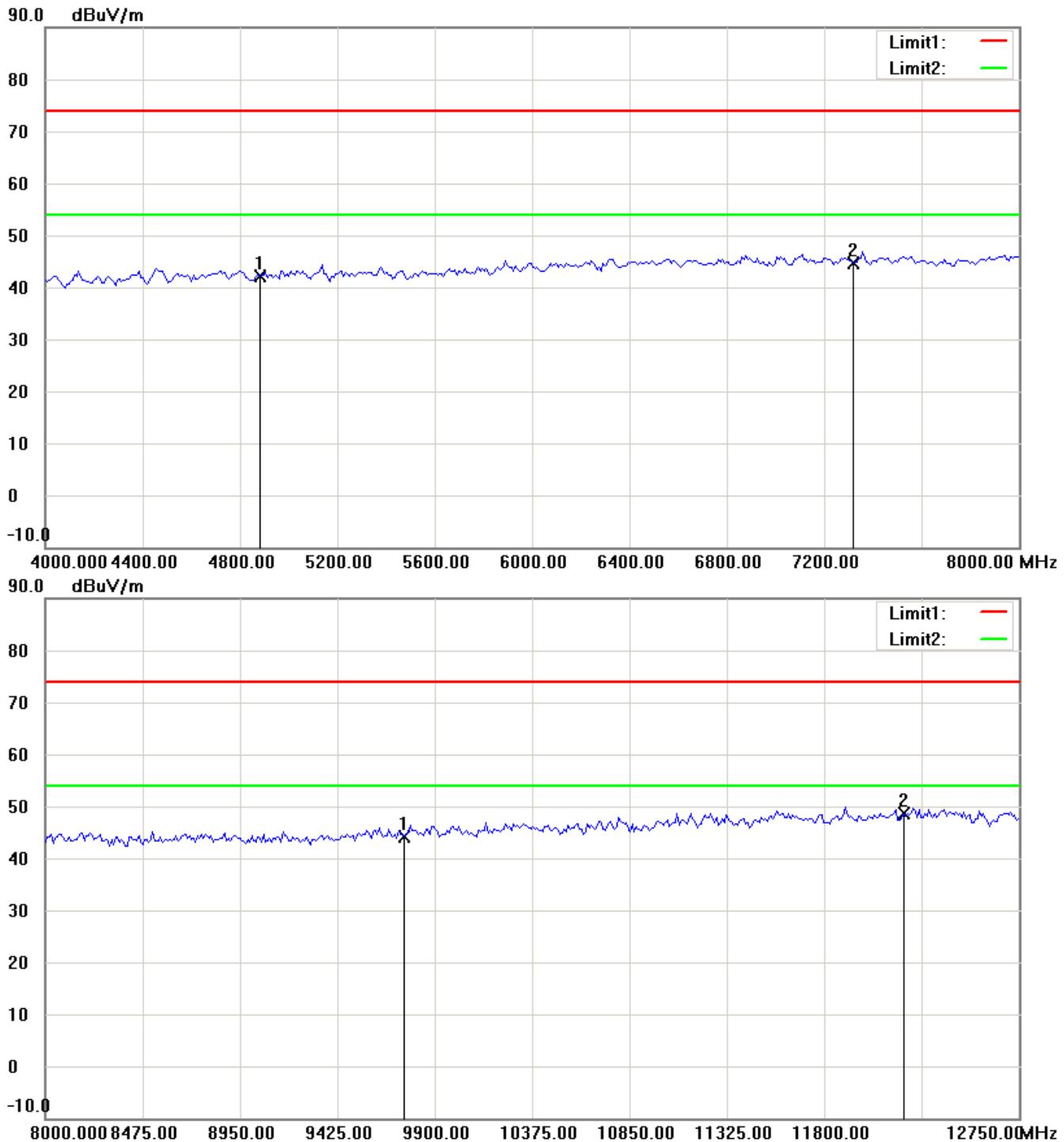
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FCC ID: 2AA4J-W6M2130813478



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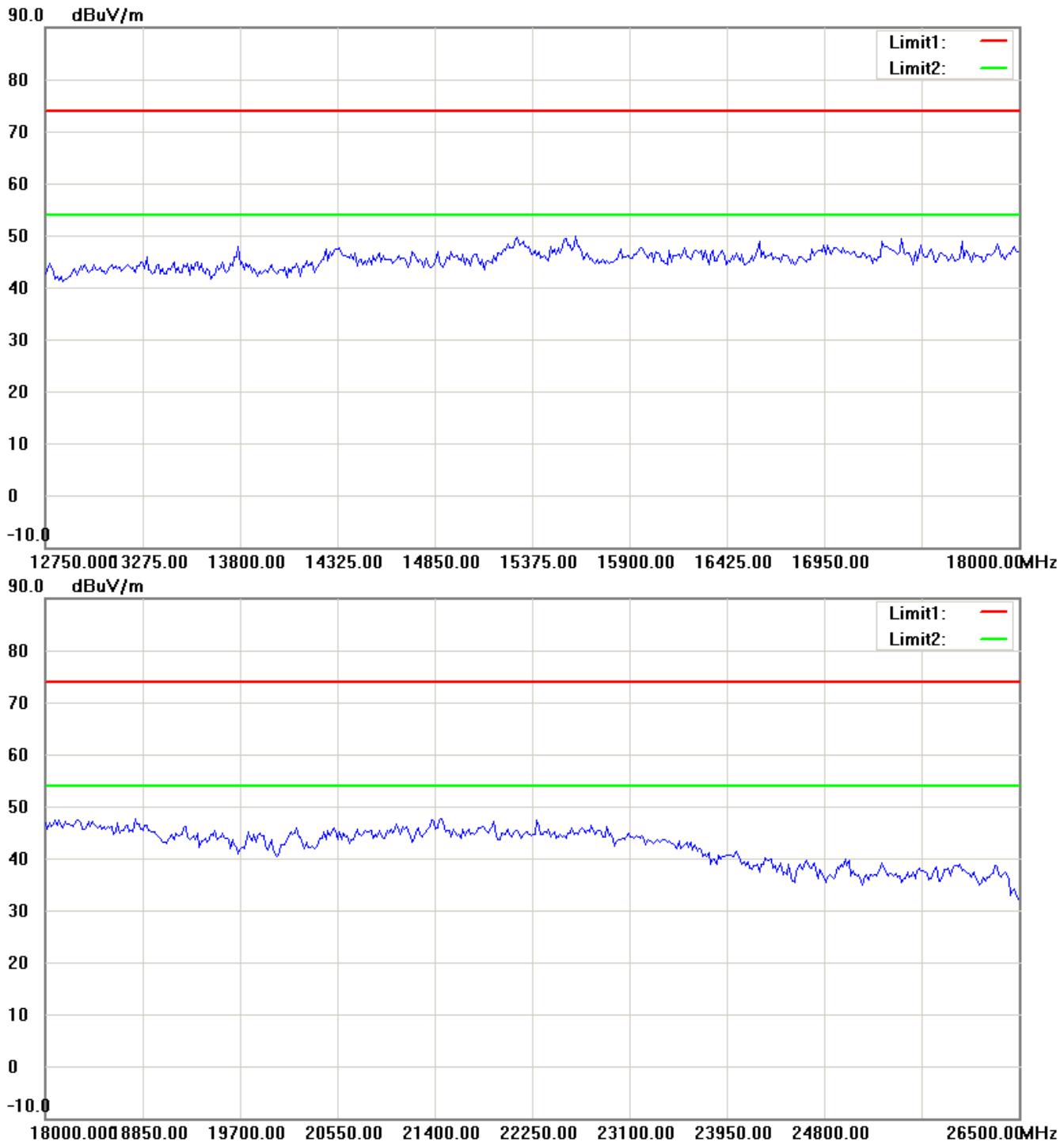
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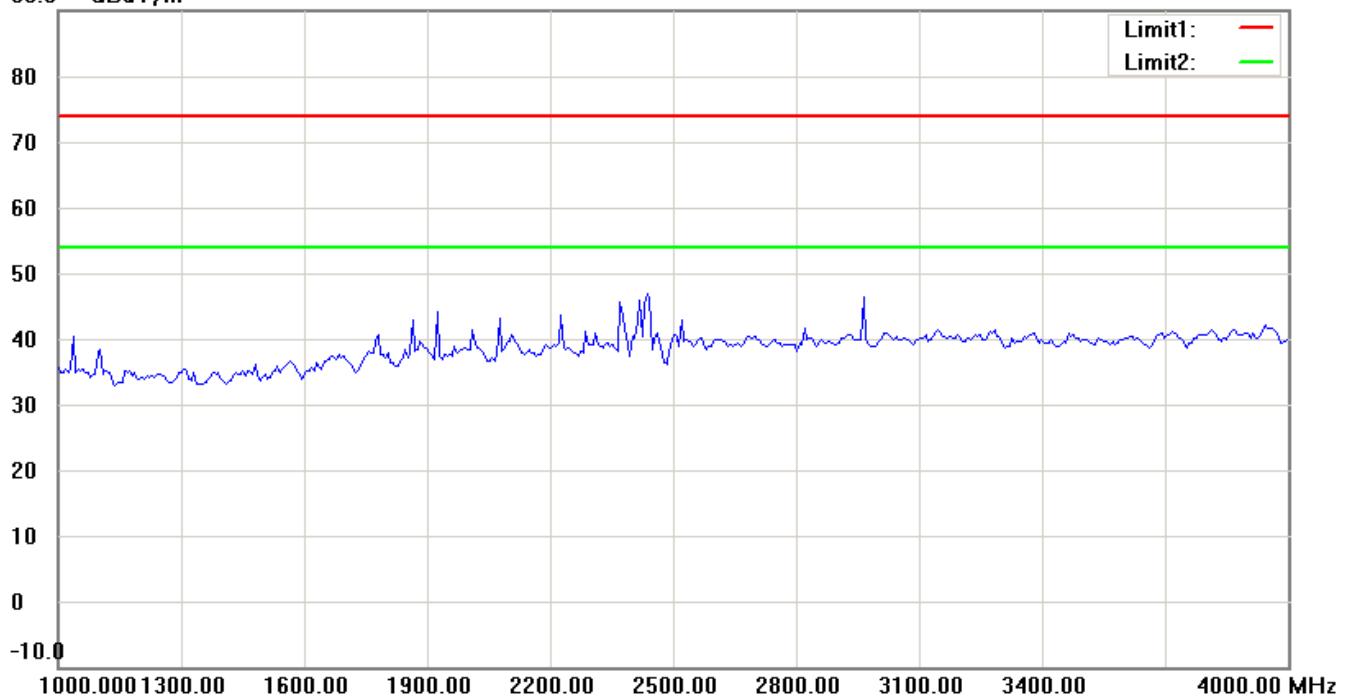
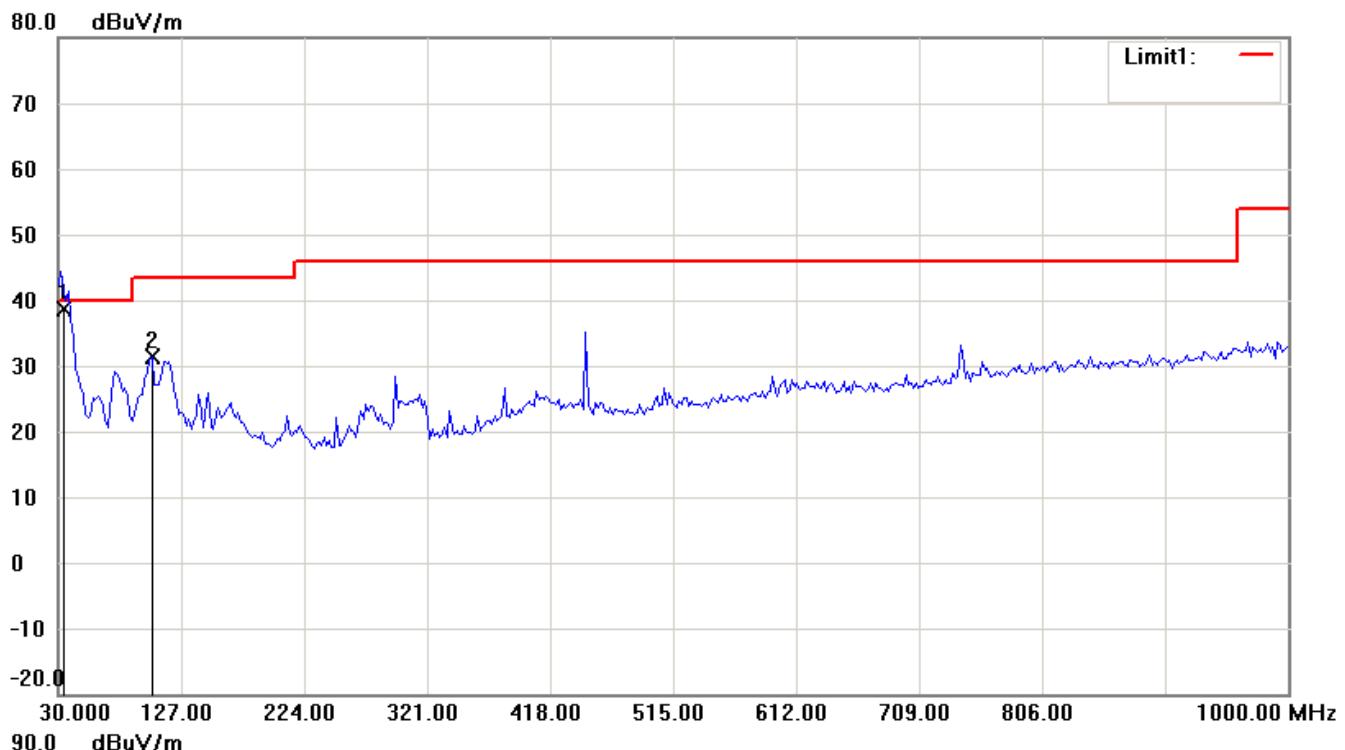


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

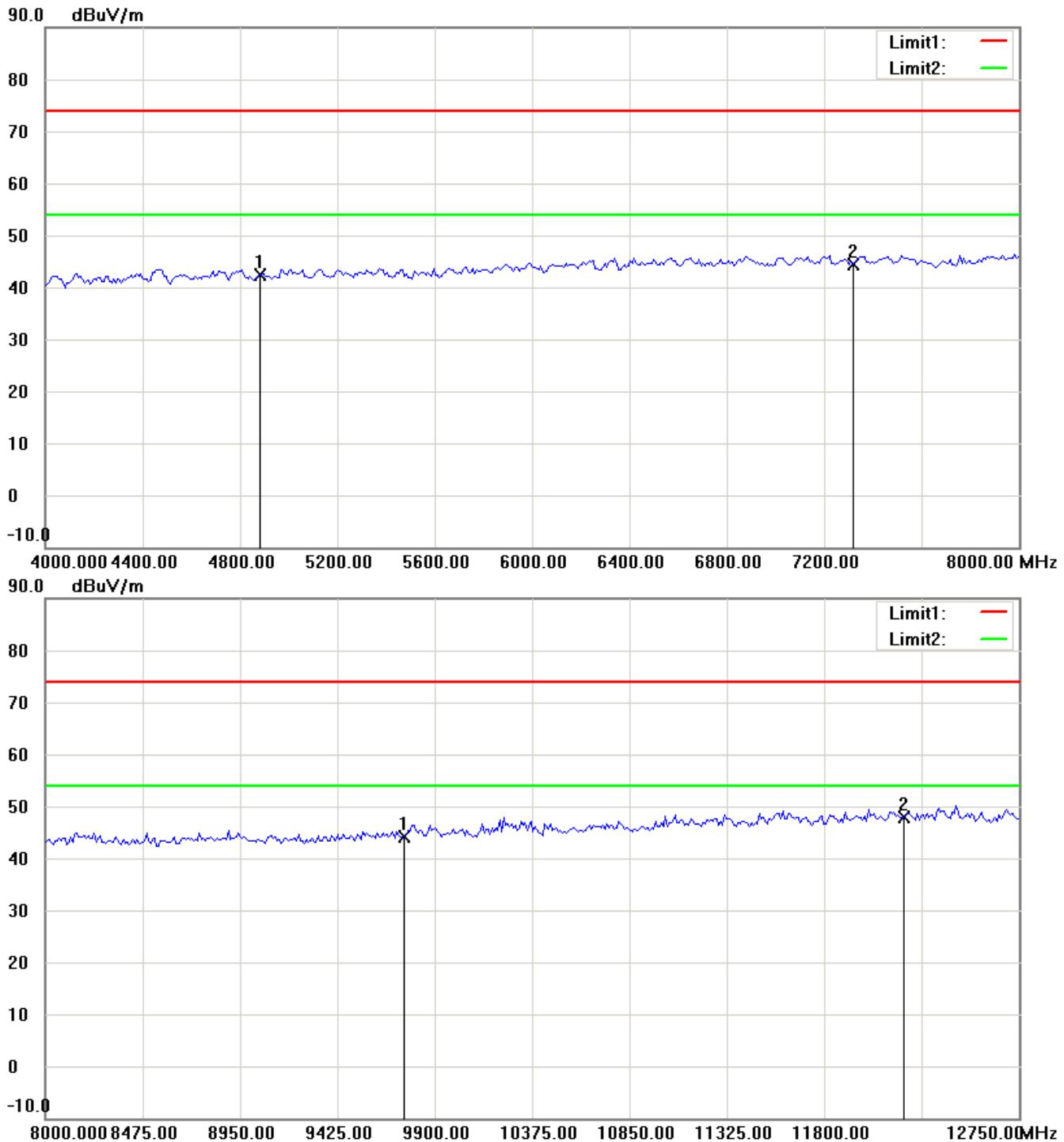
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Registration number: W6M21308-13478-C-1

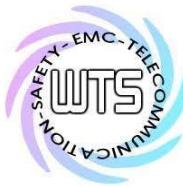
FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

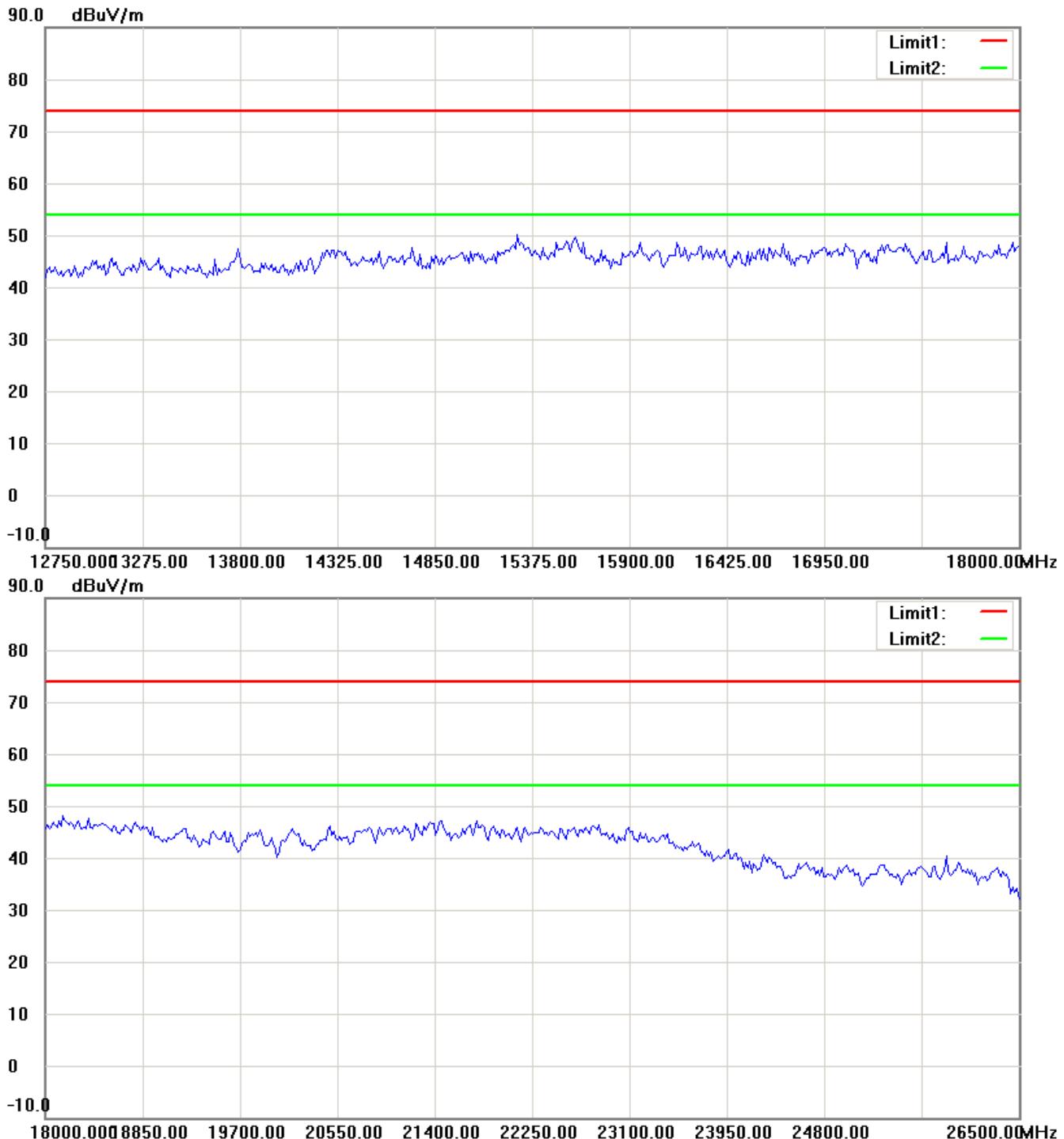
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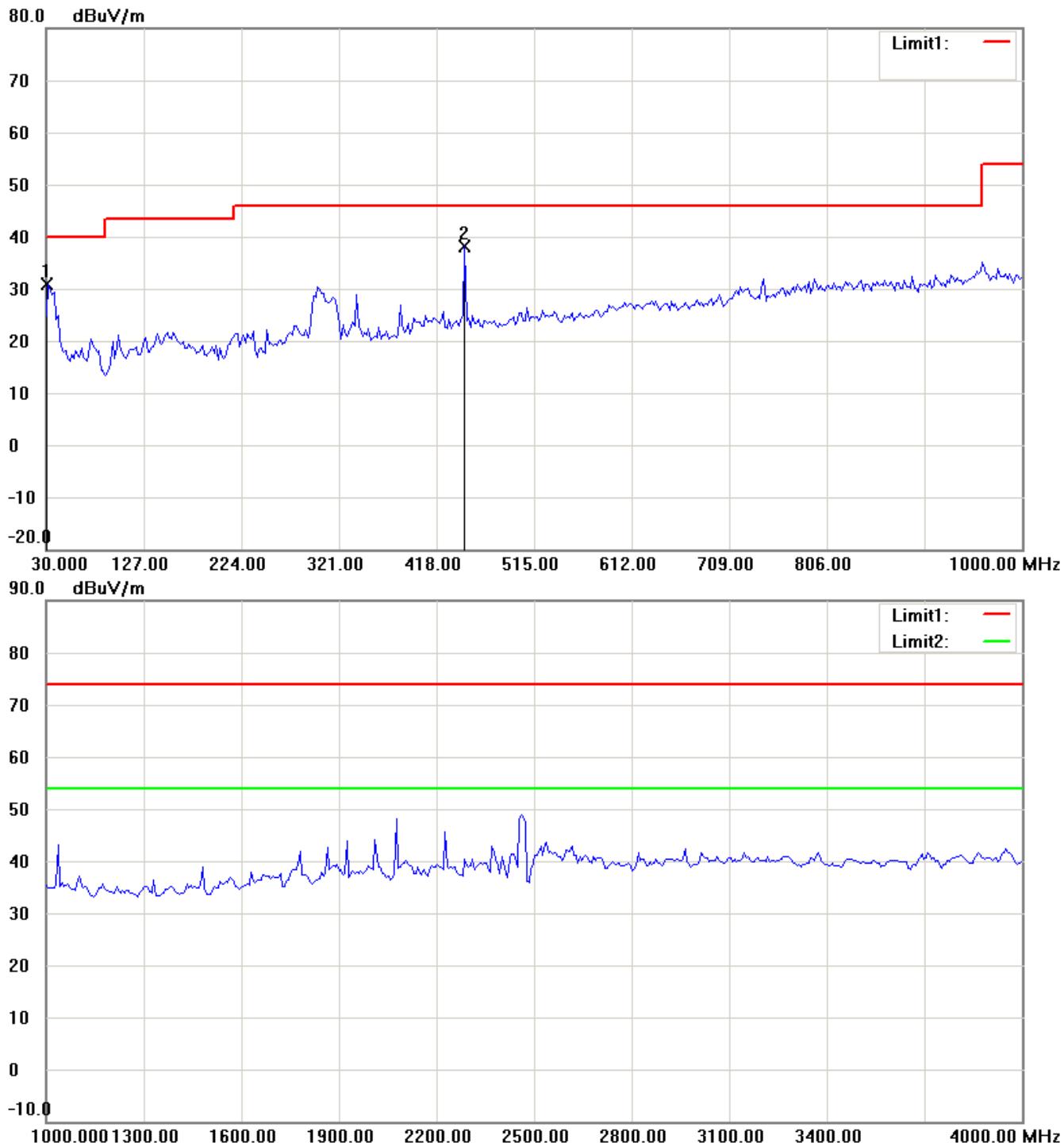
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

802.11g ch11 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

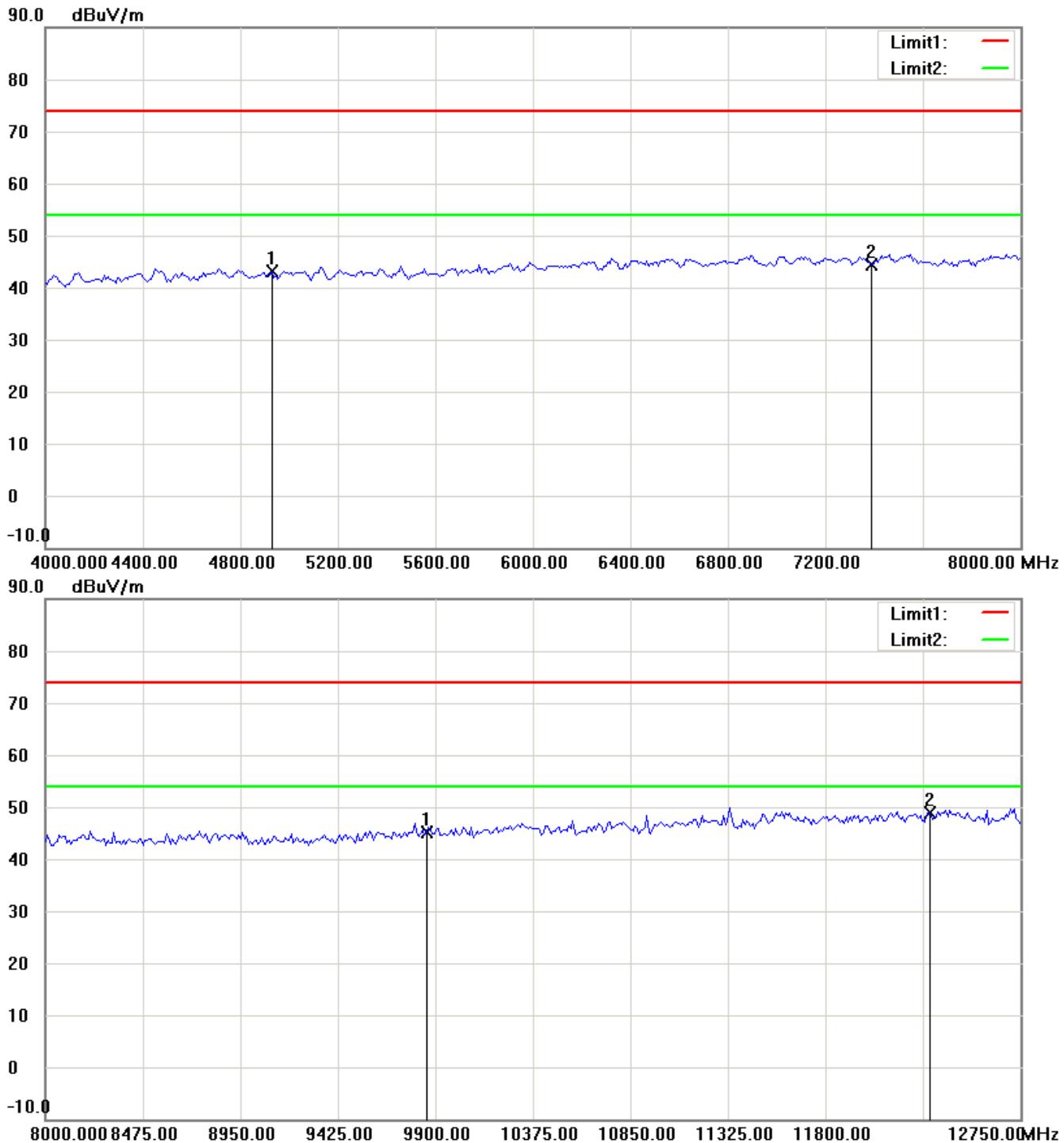
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

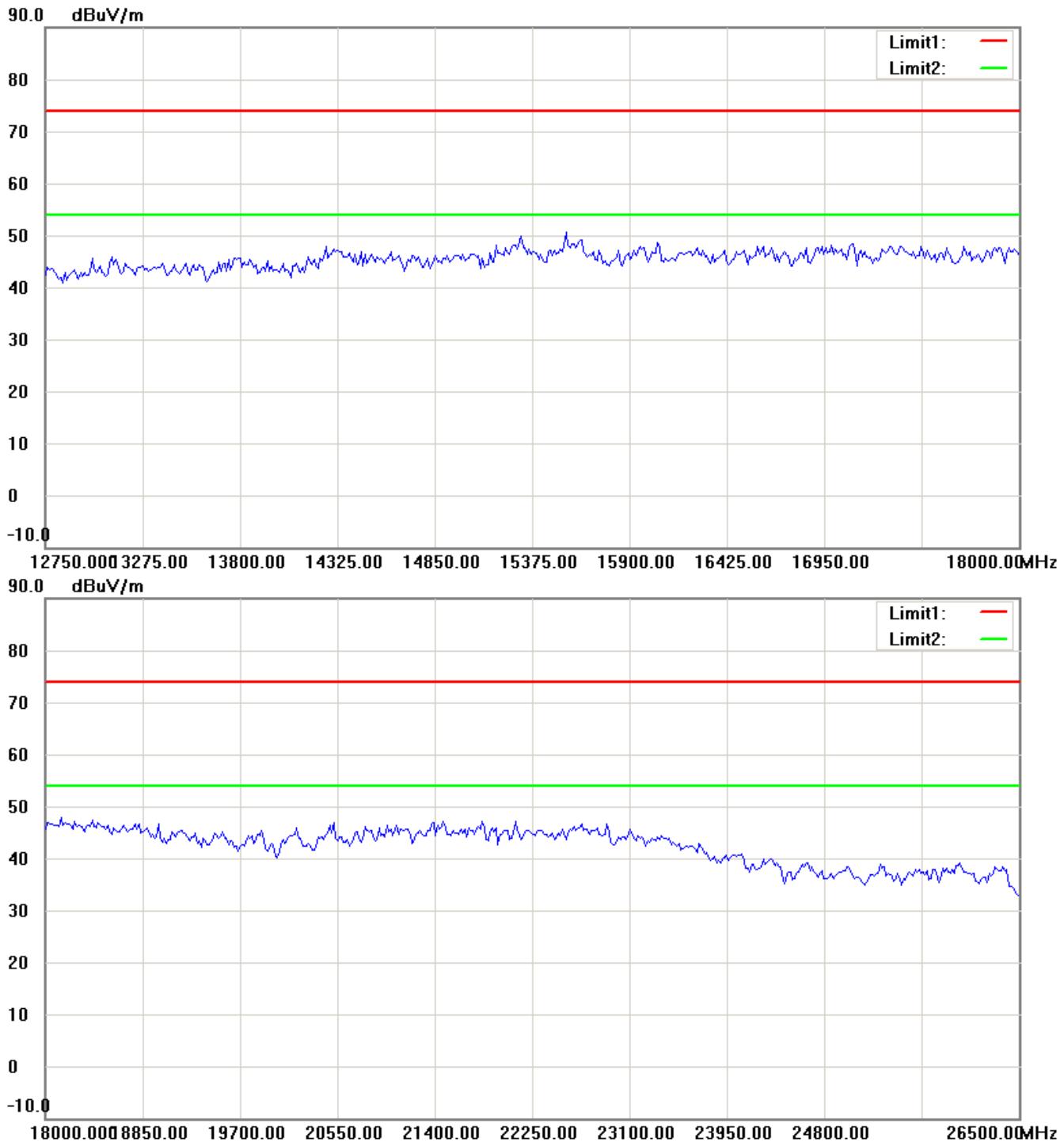
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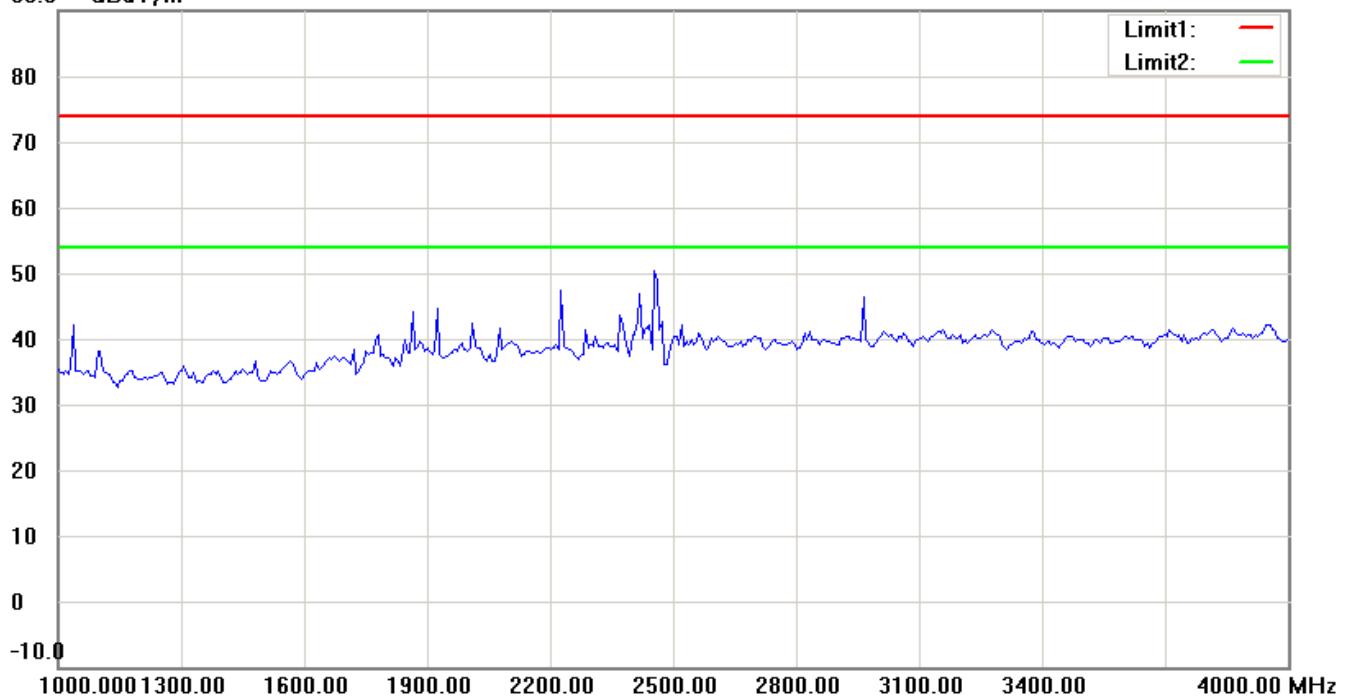
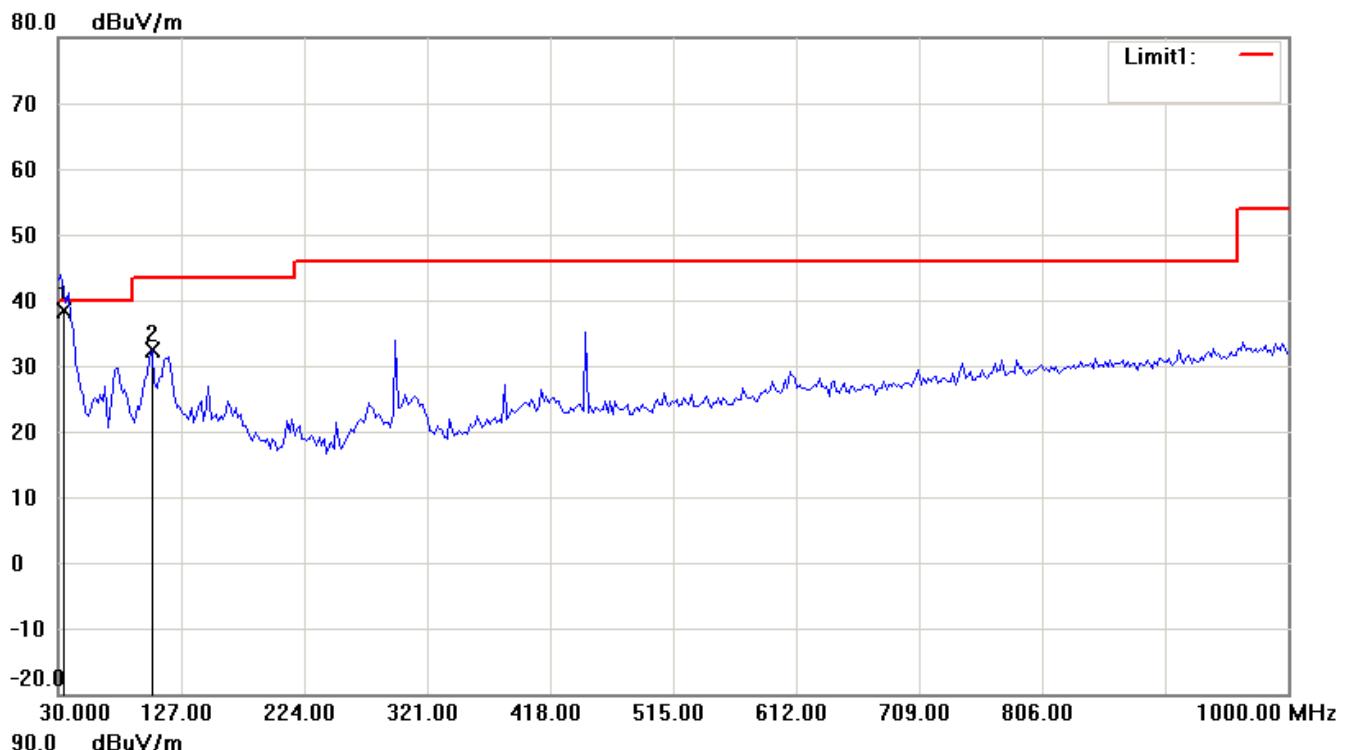


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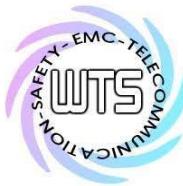
## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

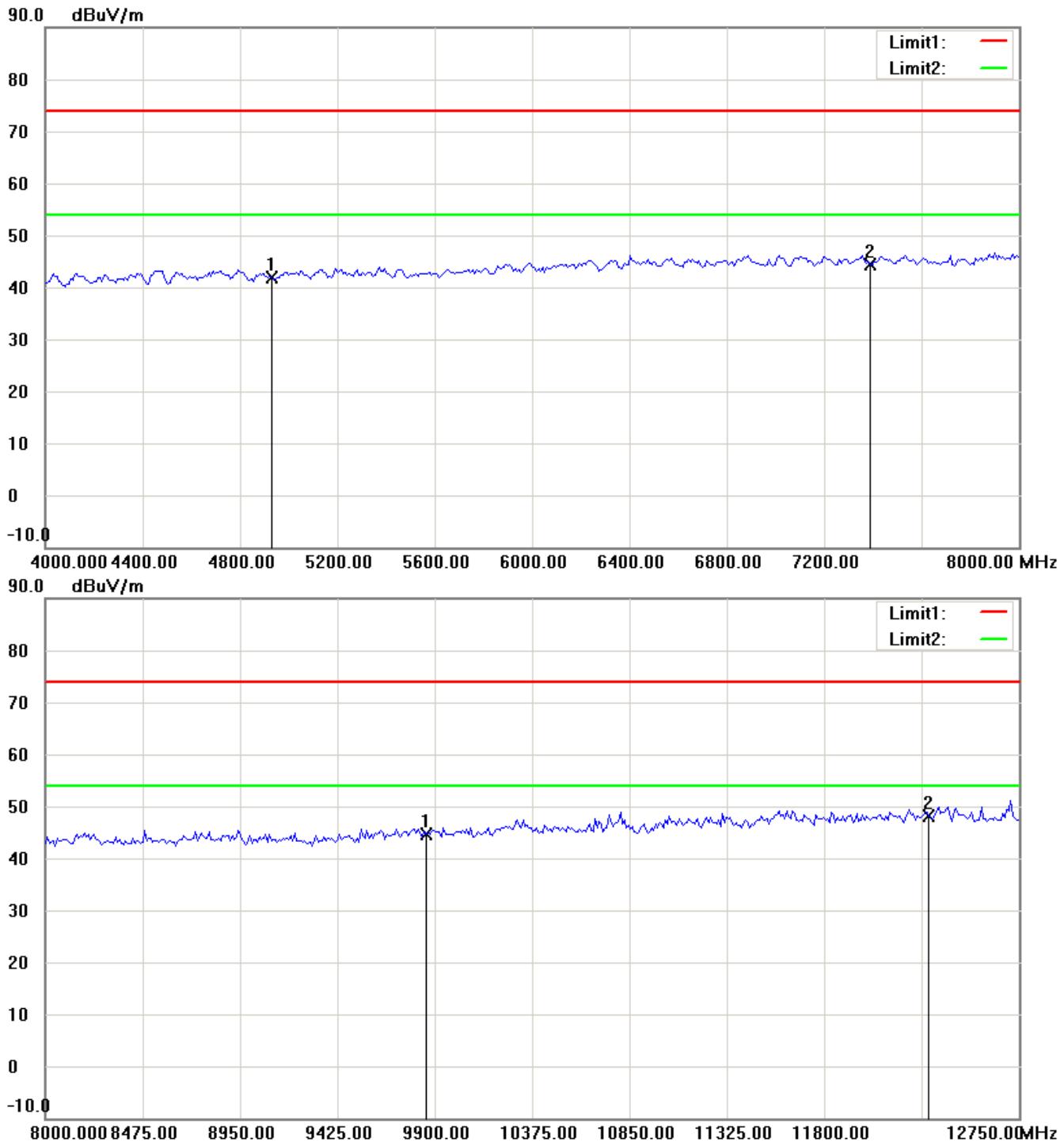
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

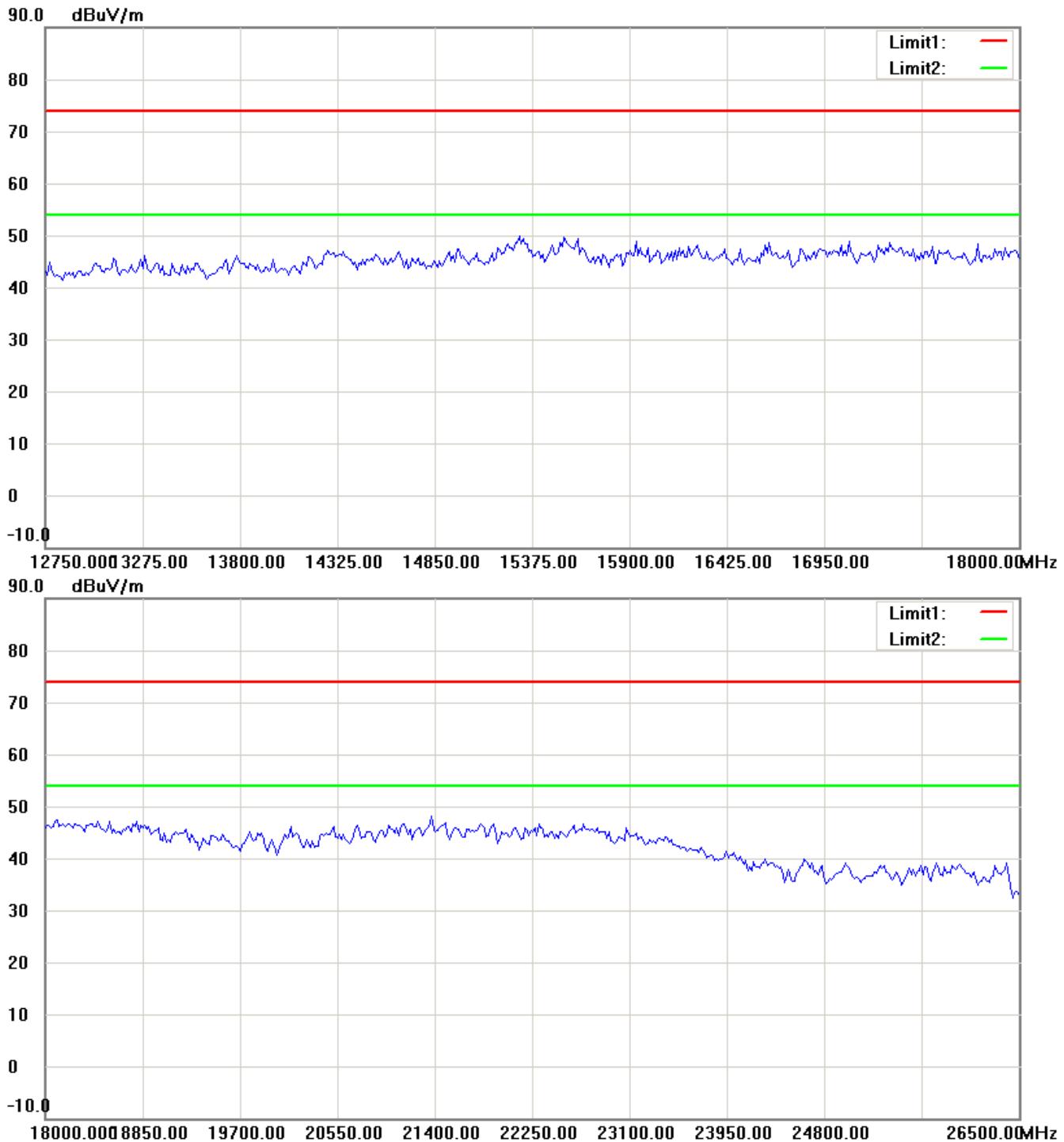
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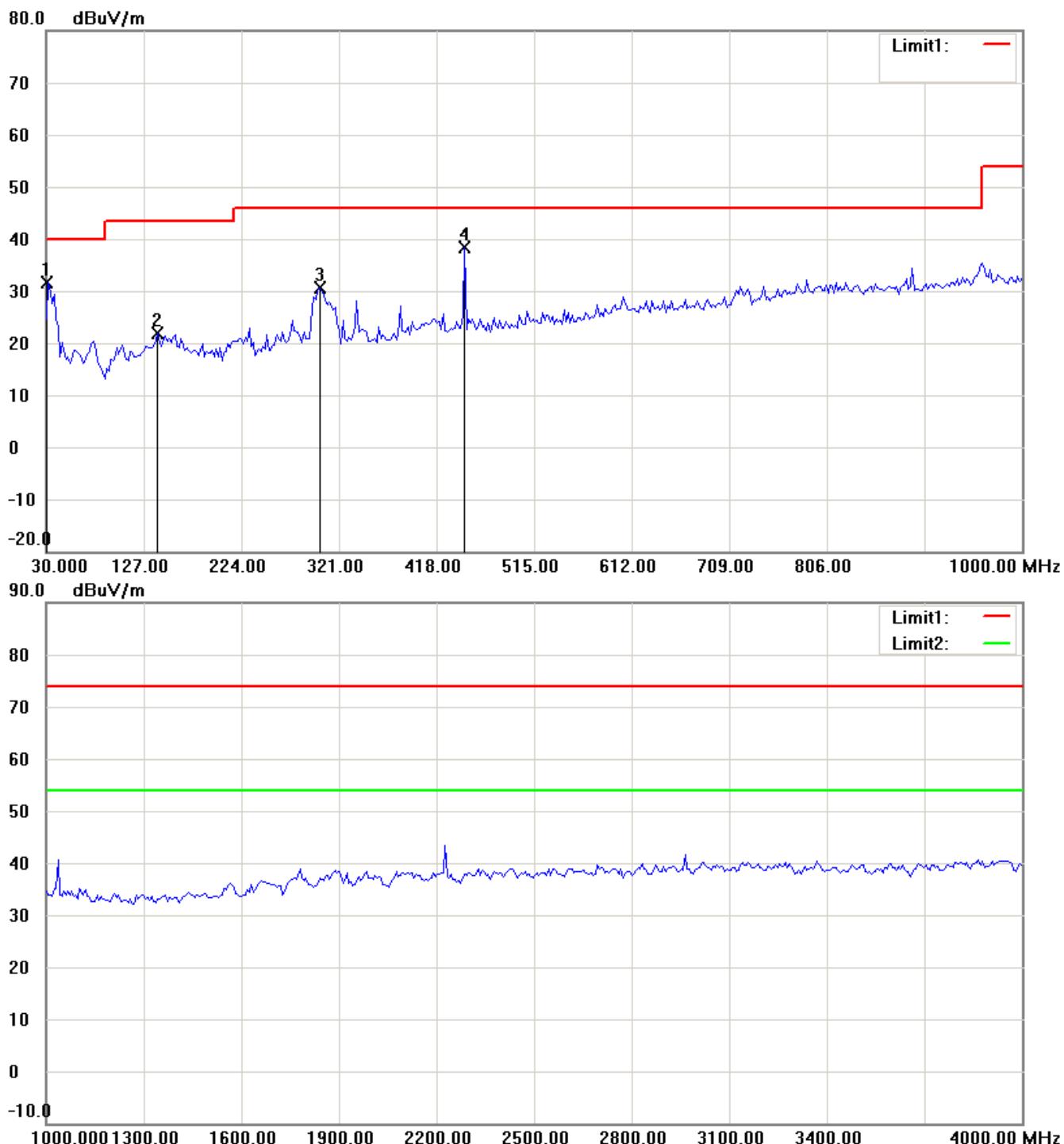
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

WLAN 5.745 ~ 5.825 GHz

802.11a ch149 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

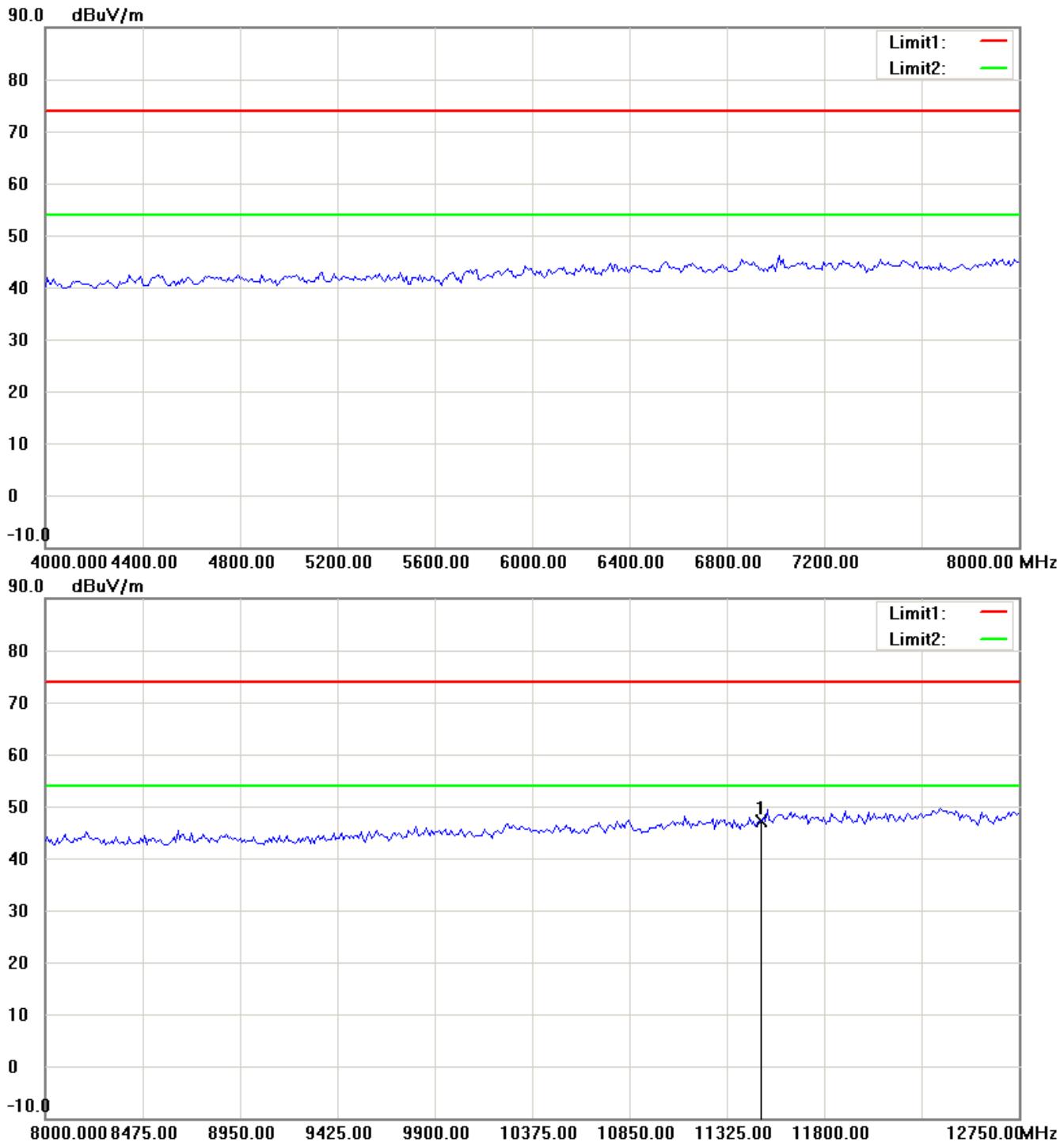
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Note:

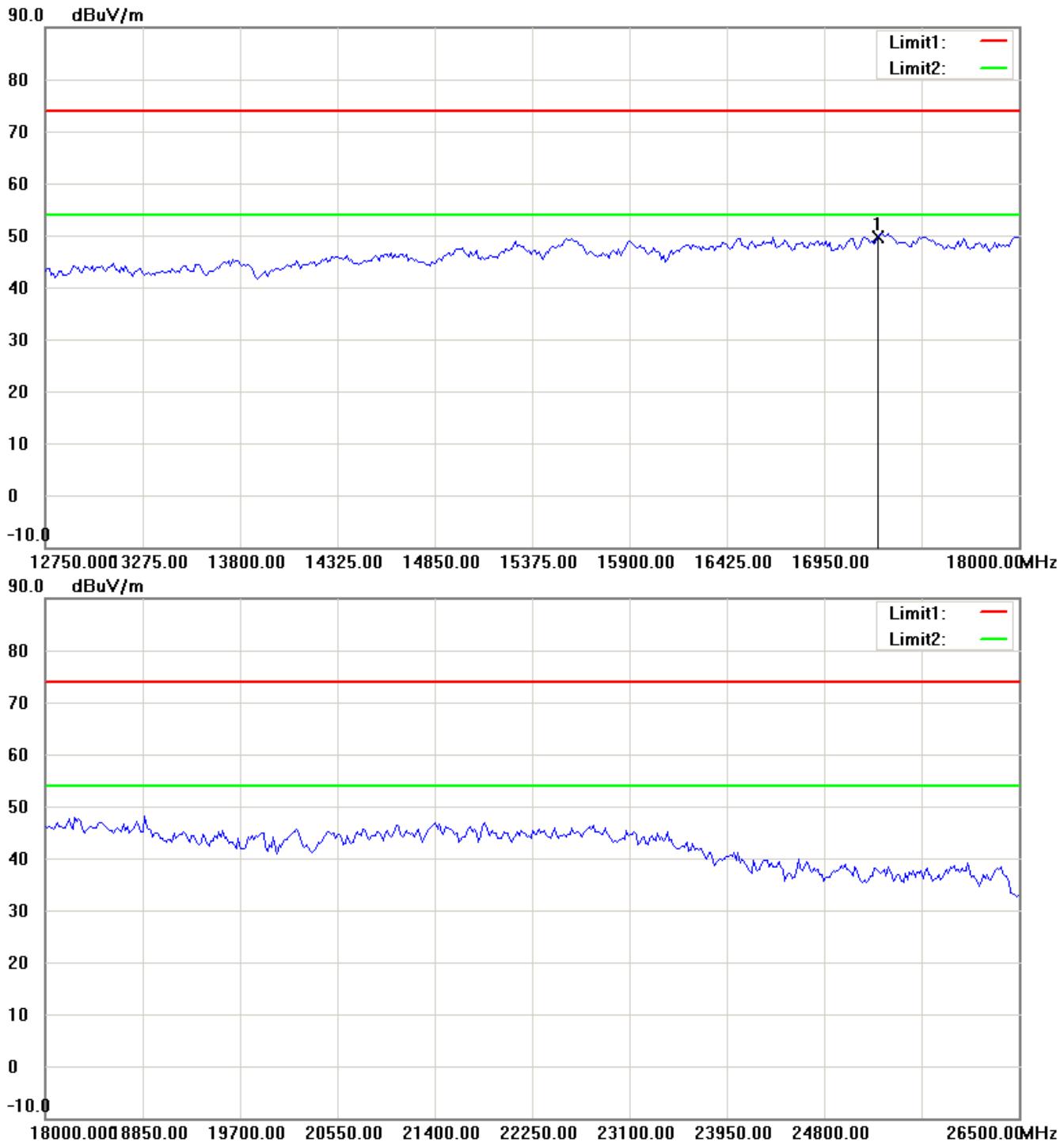
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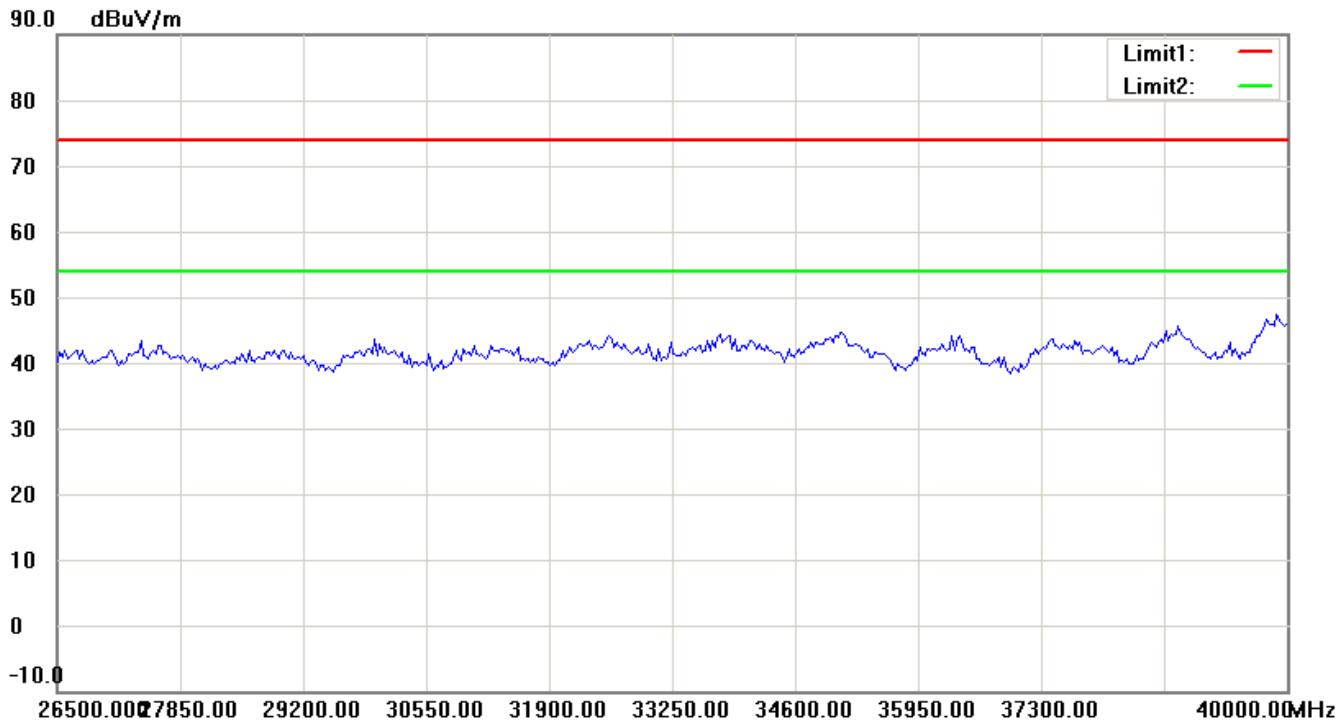
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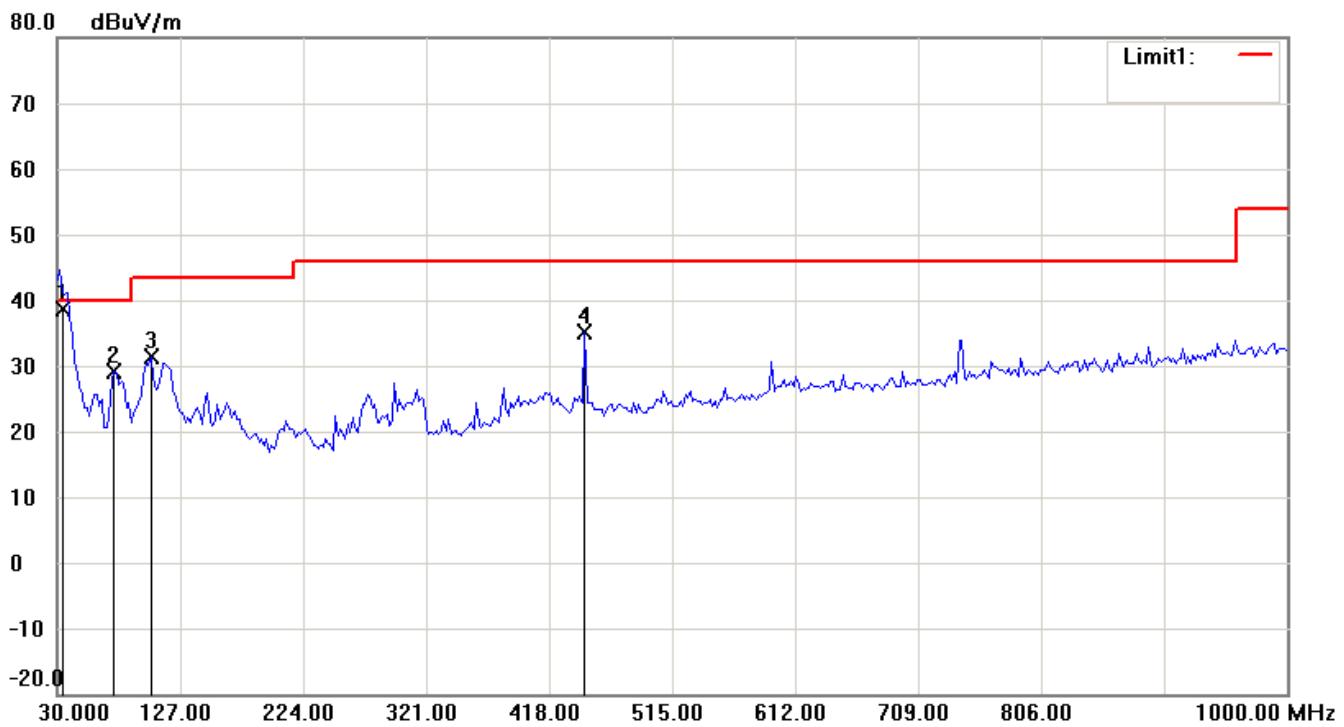
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

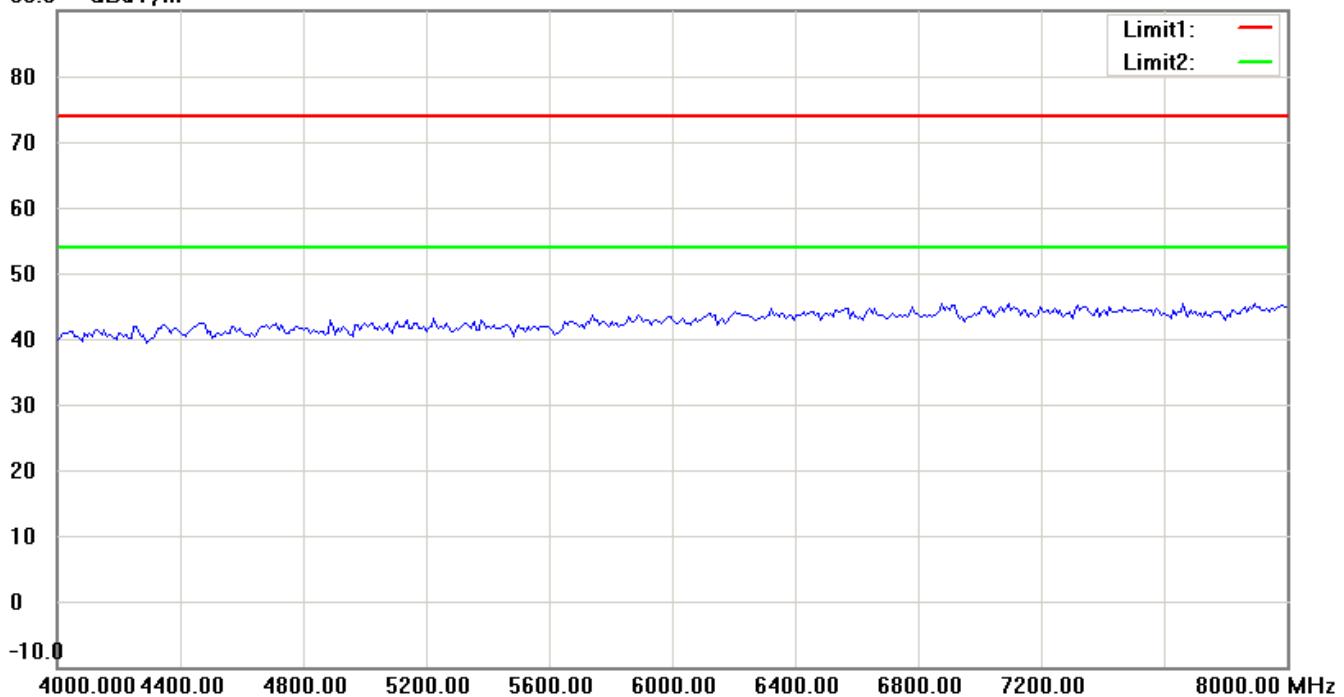
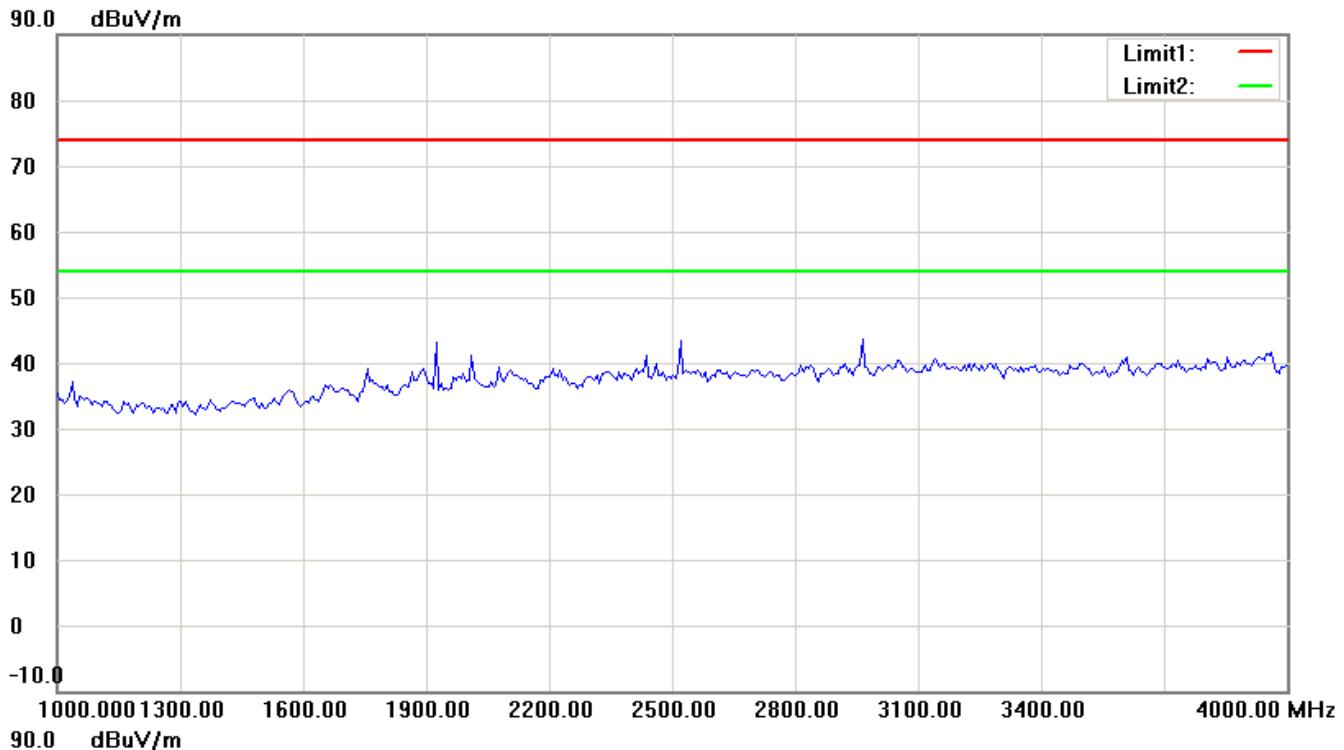
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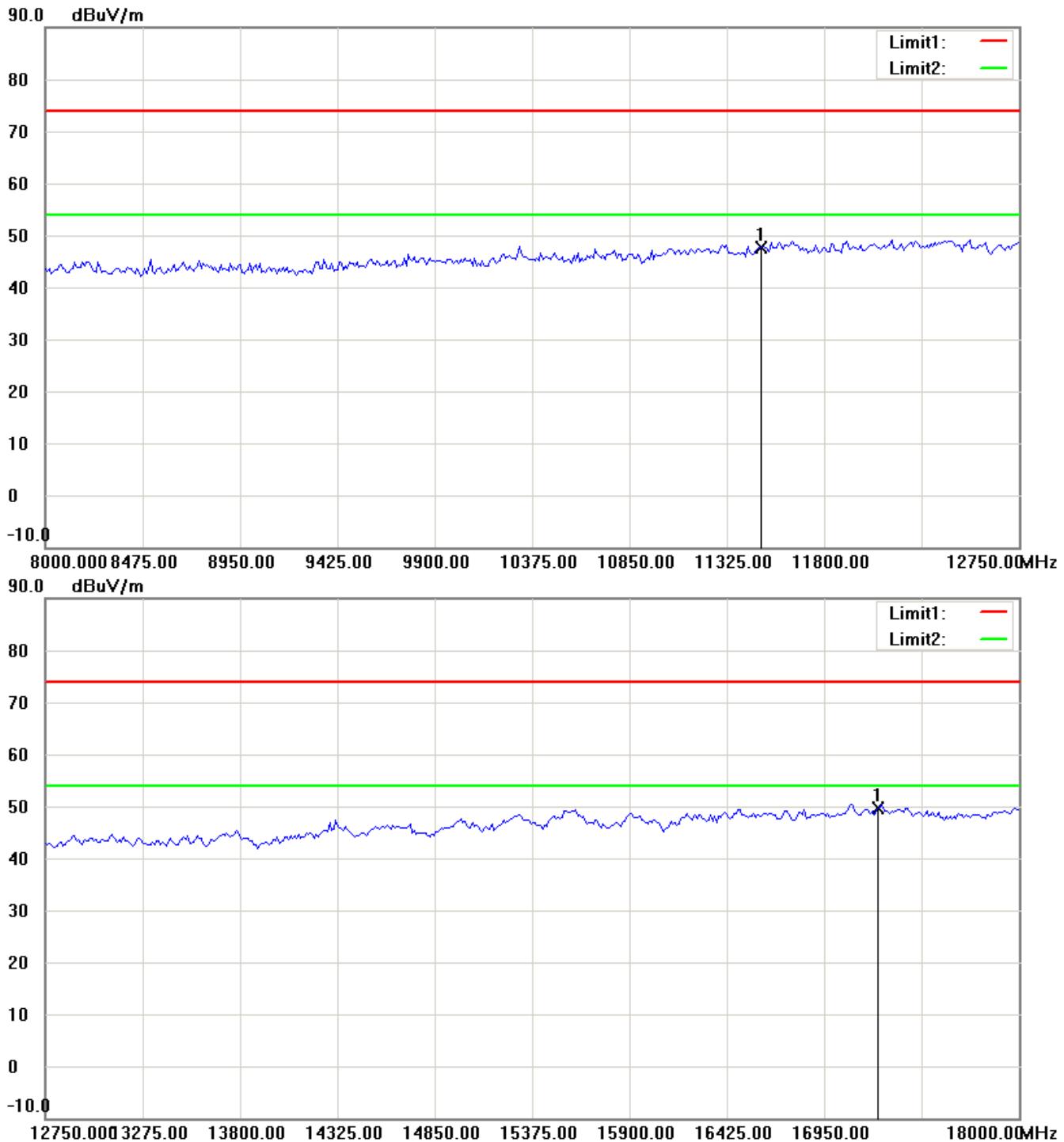
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# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

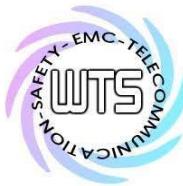
FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

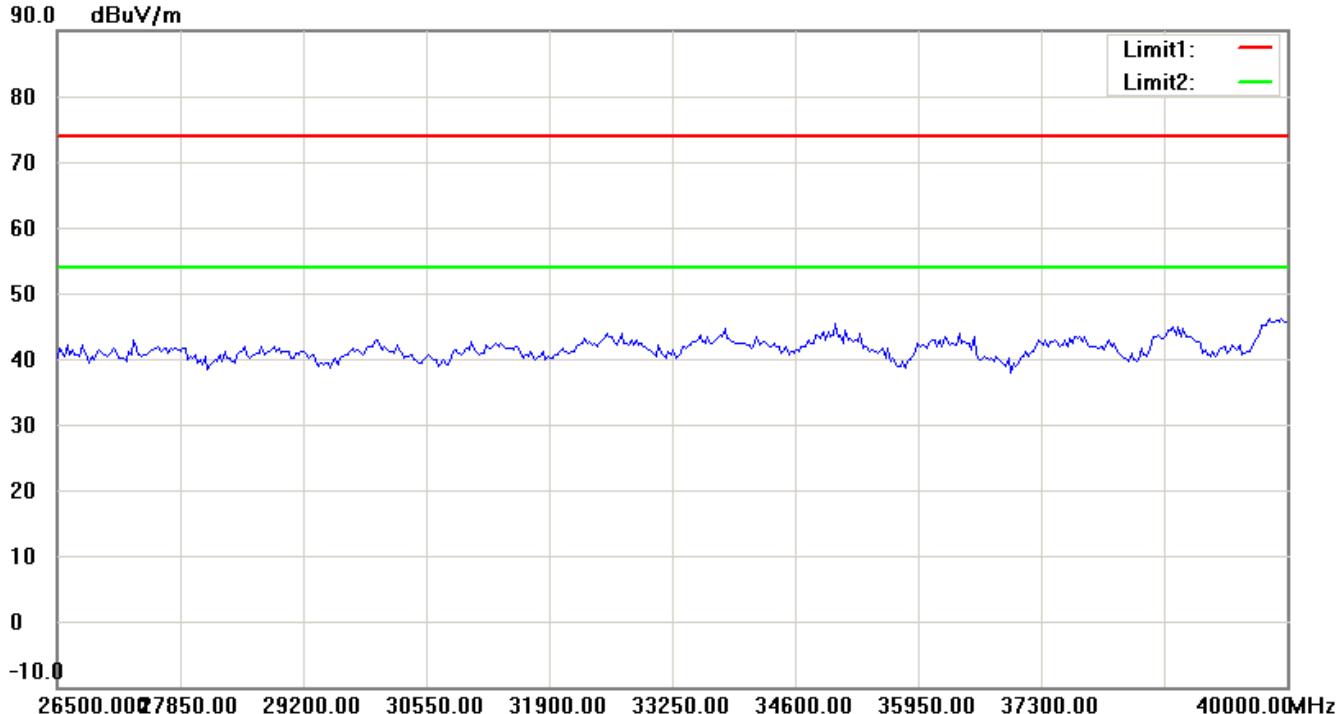
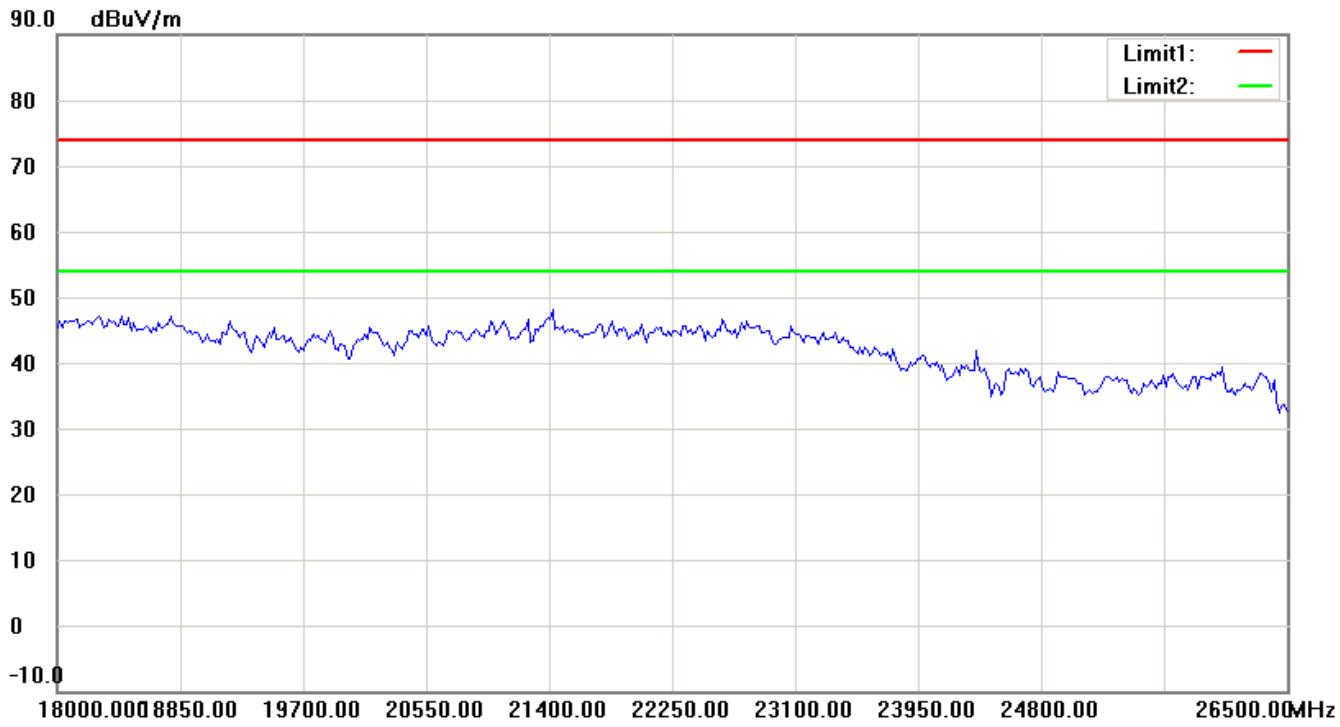
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FCC ID: 2AA4J-W6M2130813478



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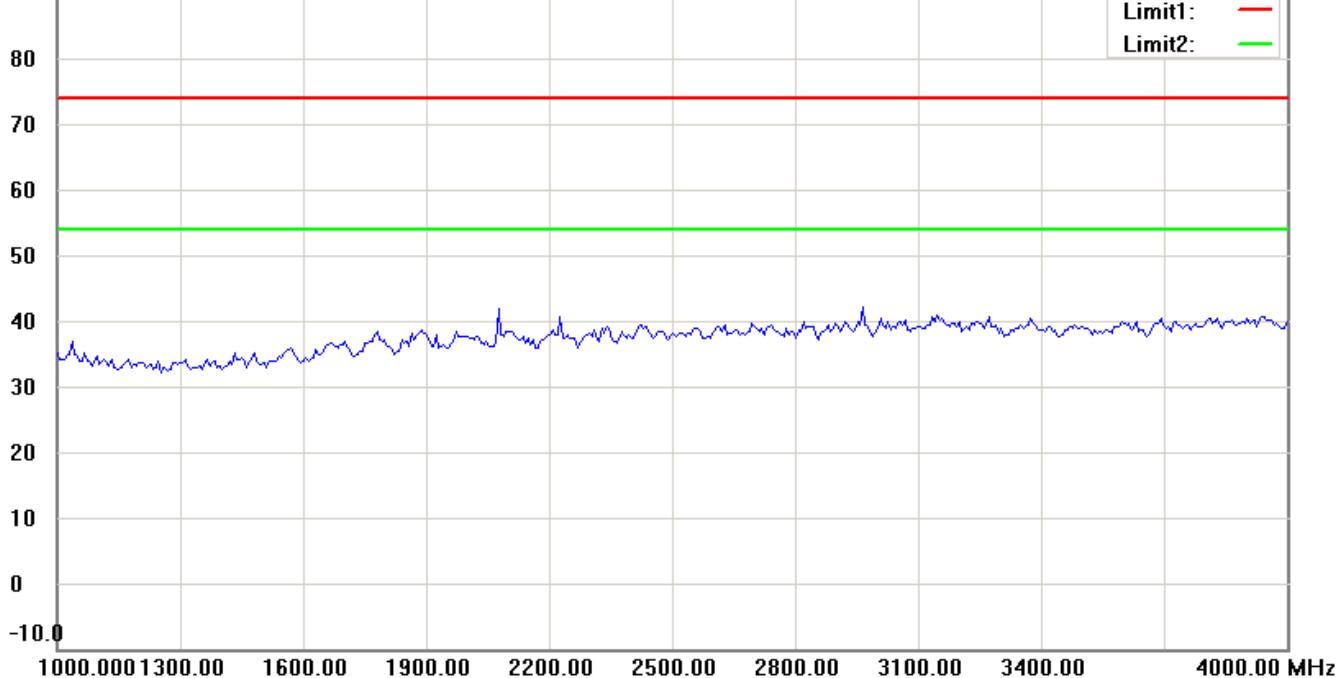
802.11a ch157 TX

Antenna Polarization H

80.0 dBuV/m



90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

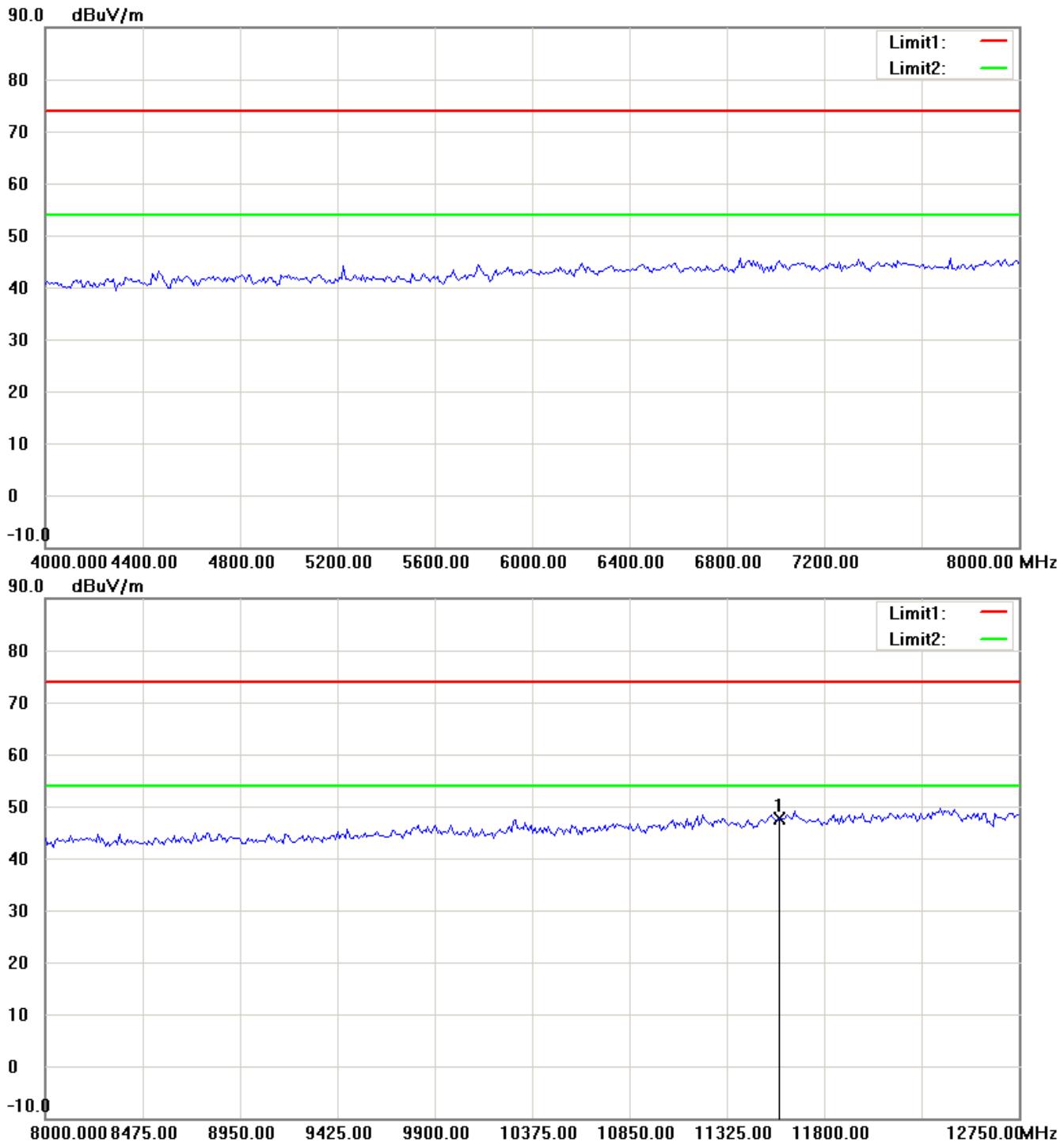
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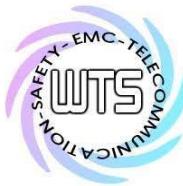
FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

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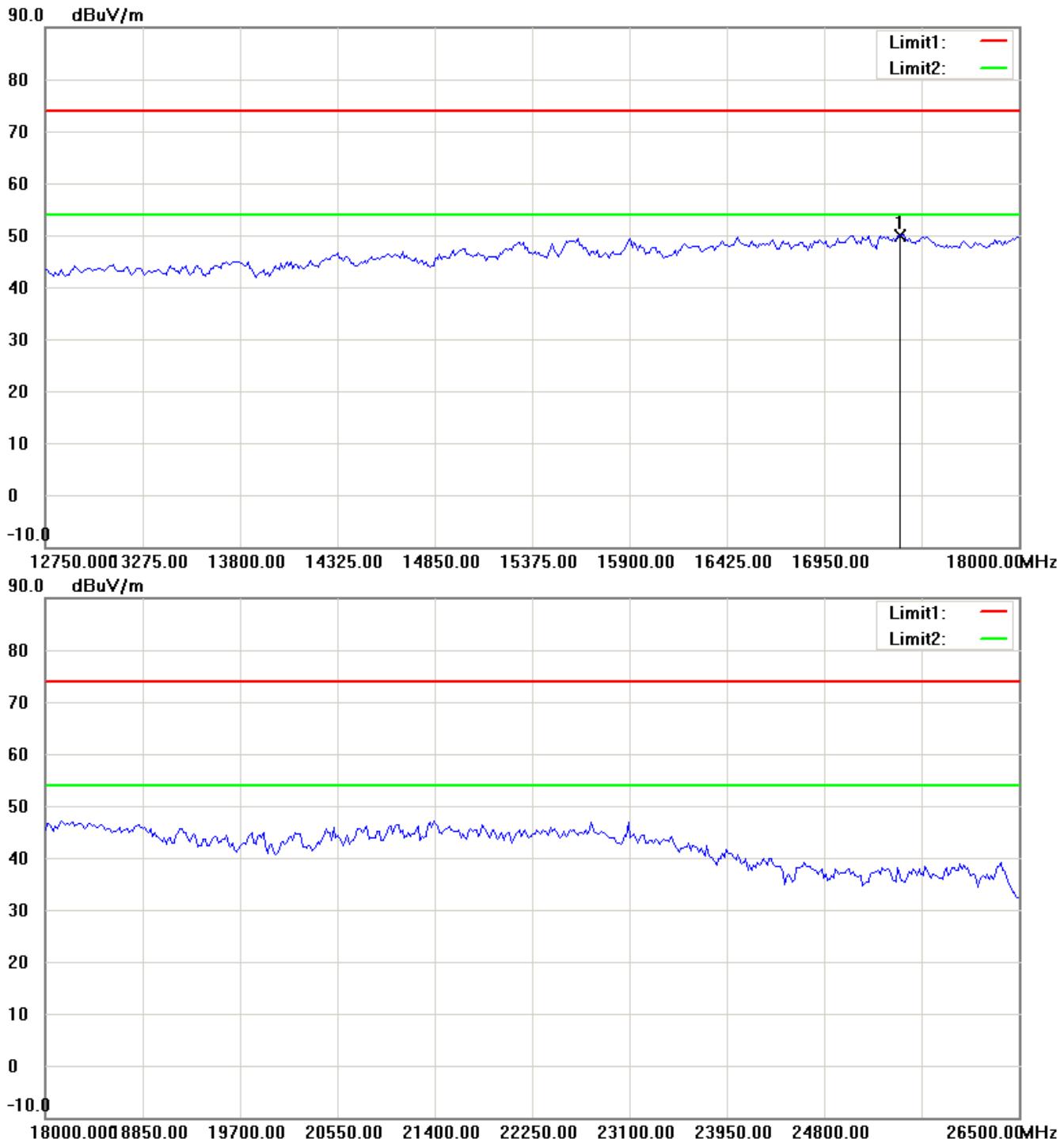
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FCC ID: 2AA4J-W6M2130813478



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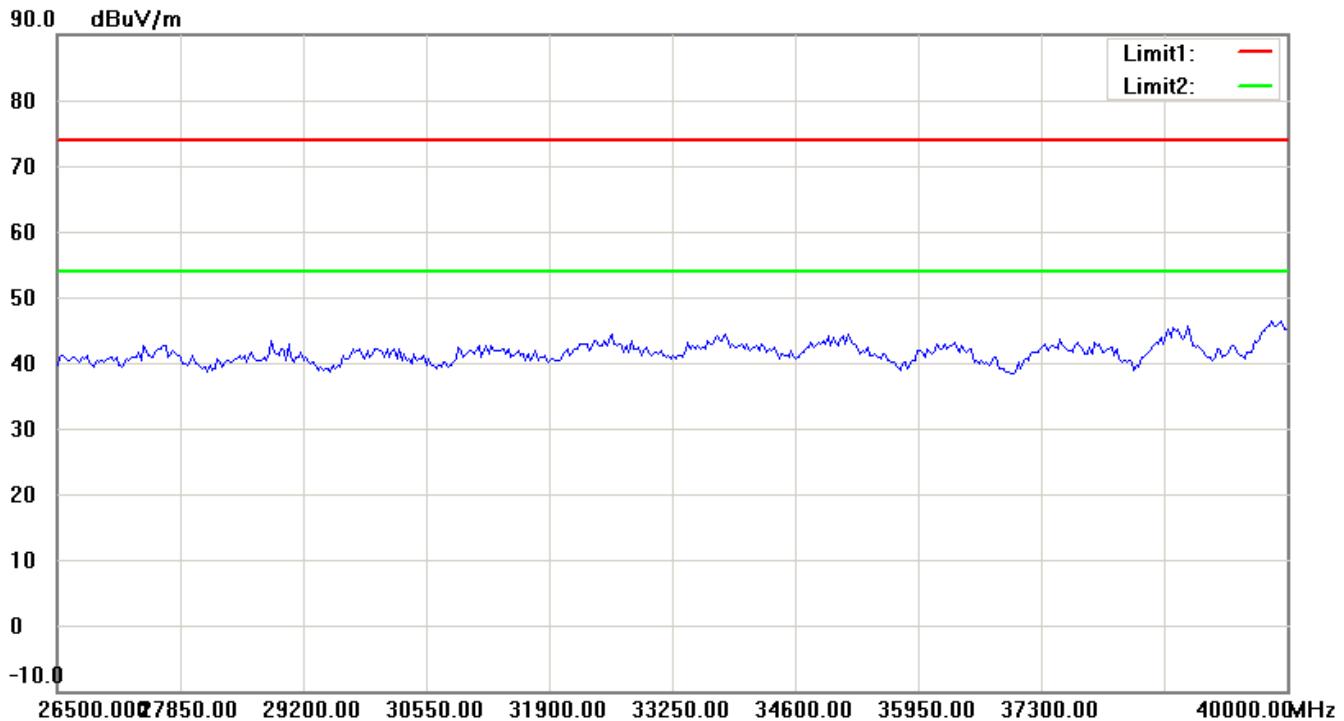
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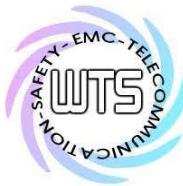
## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

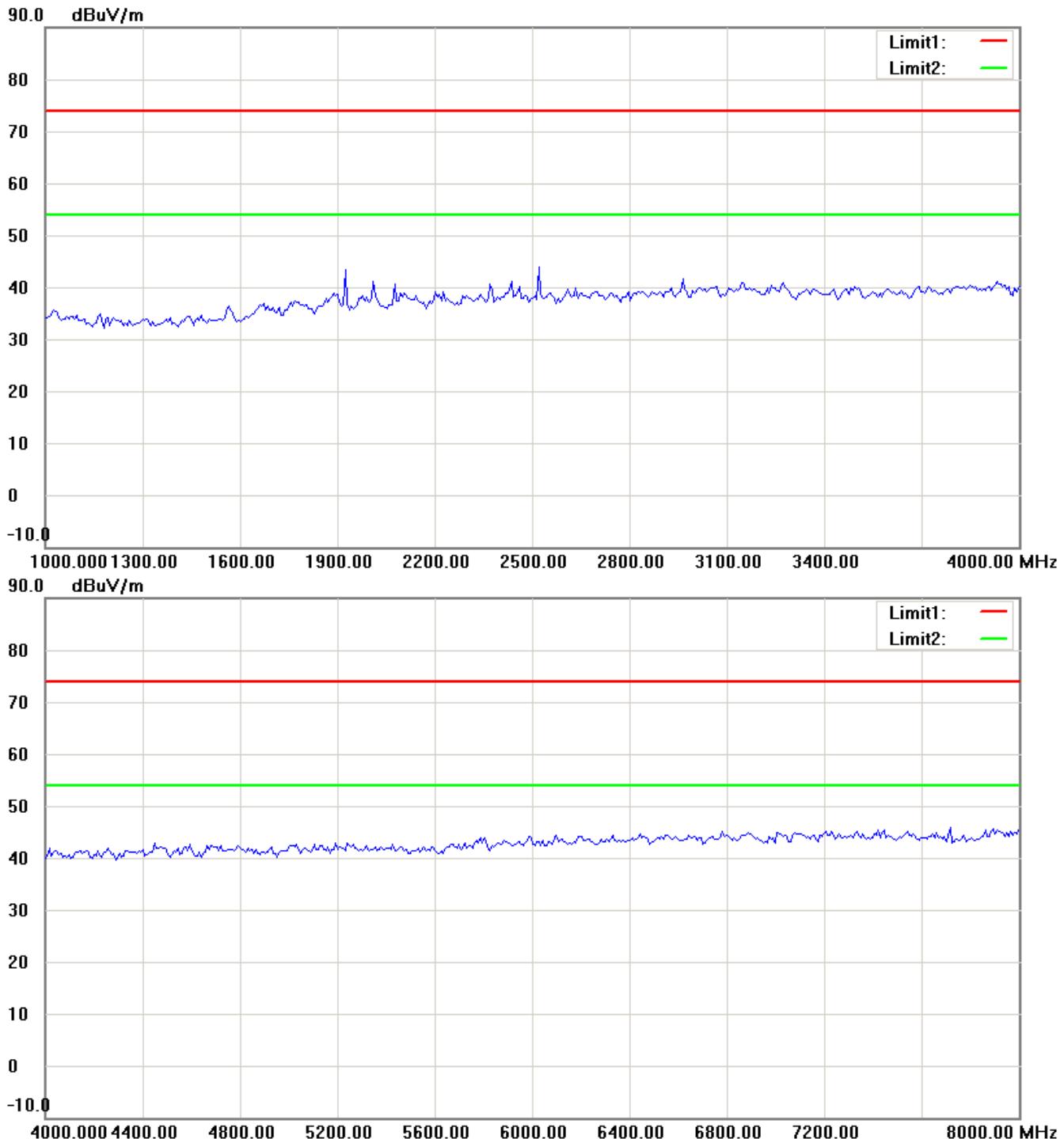
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

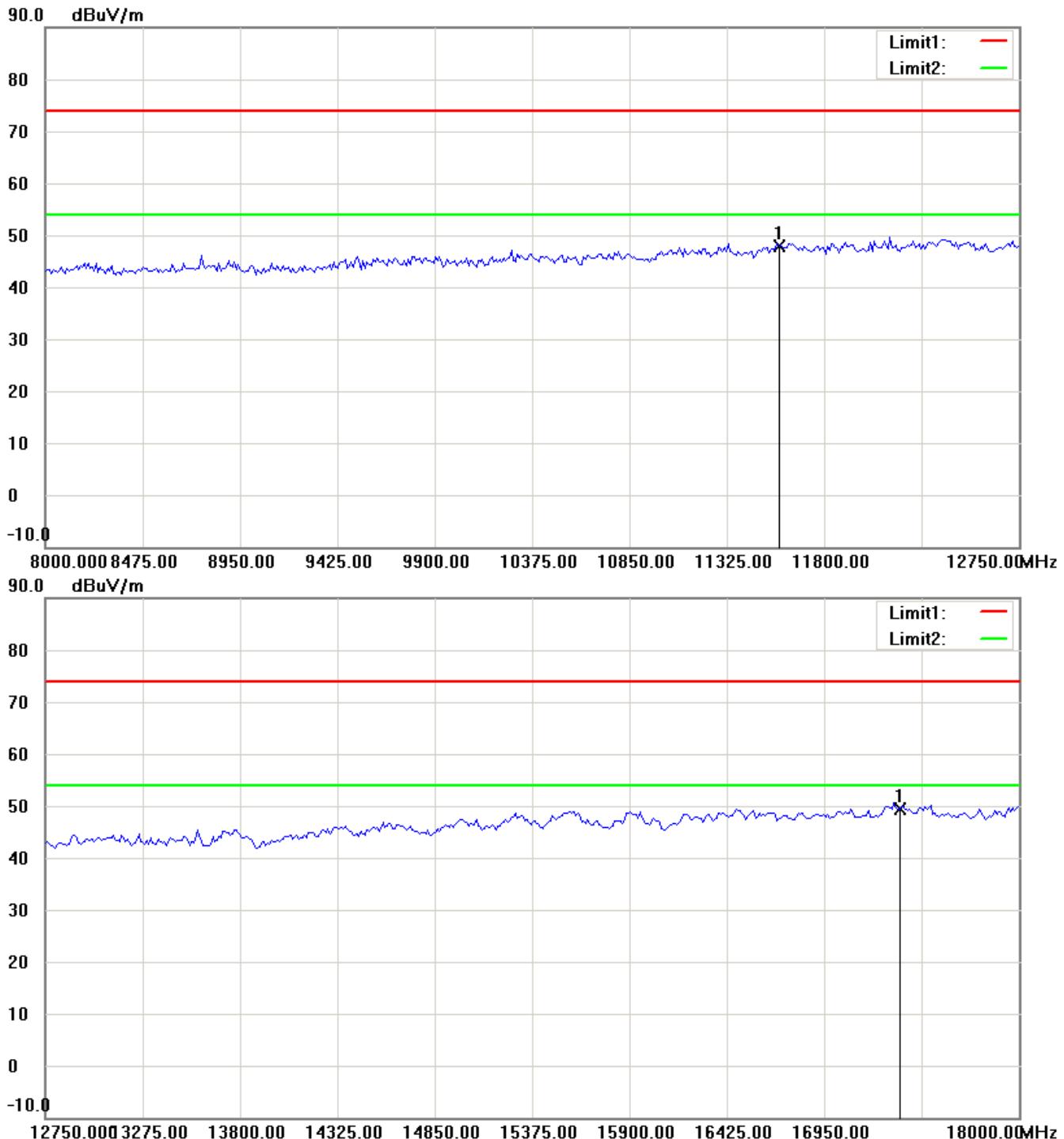
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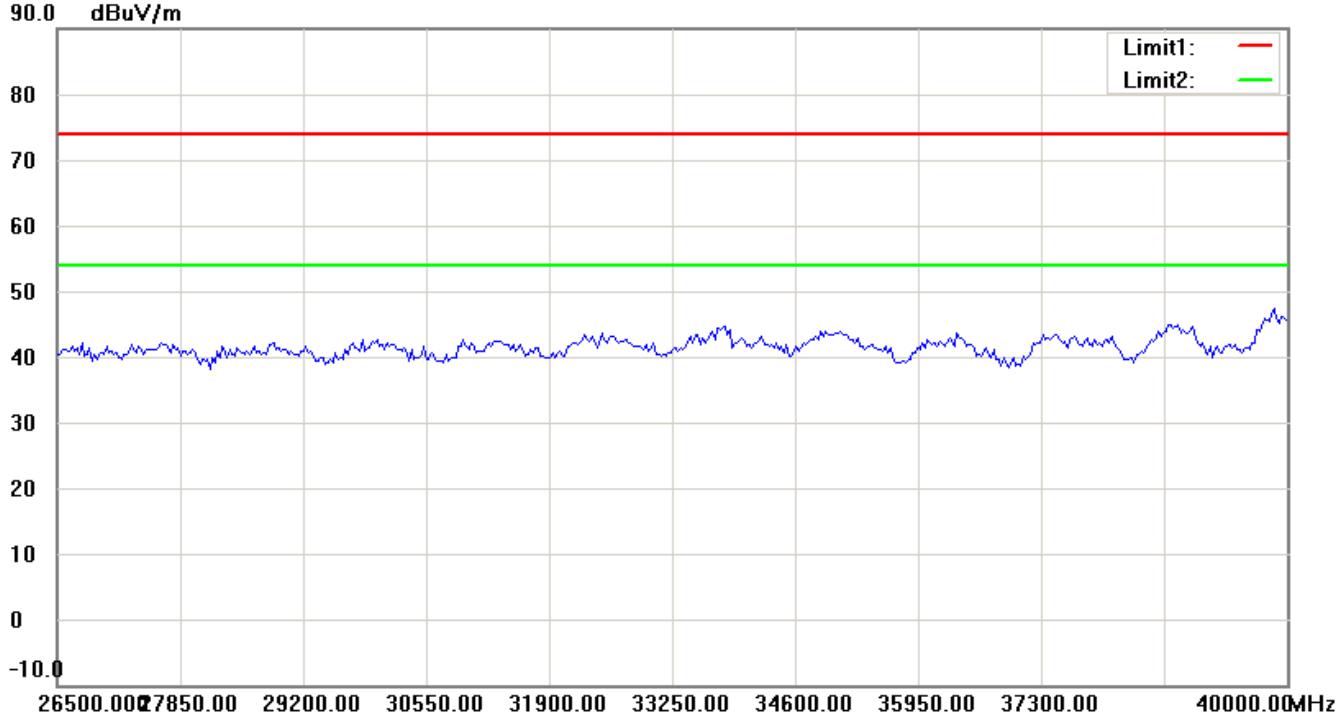
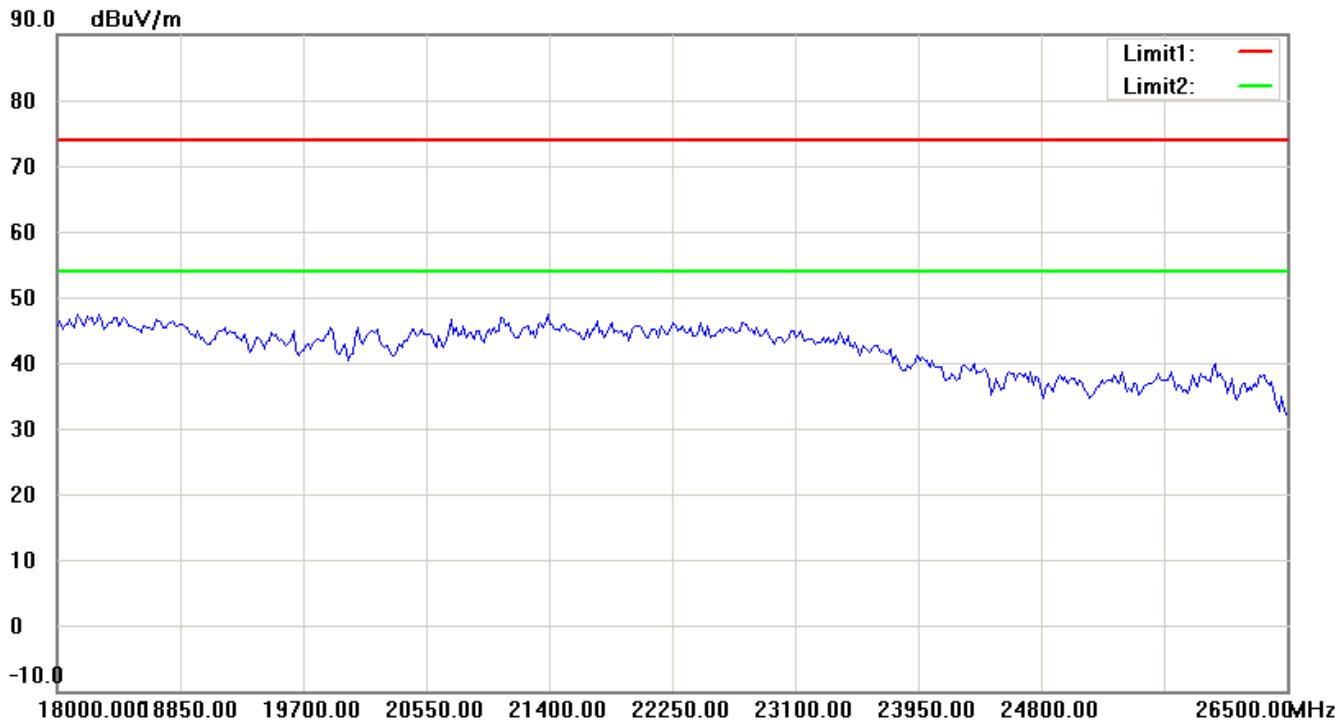
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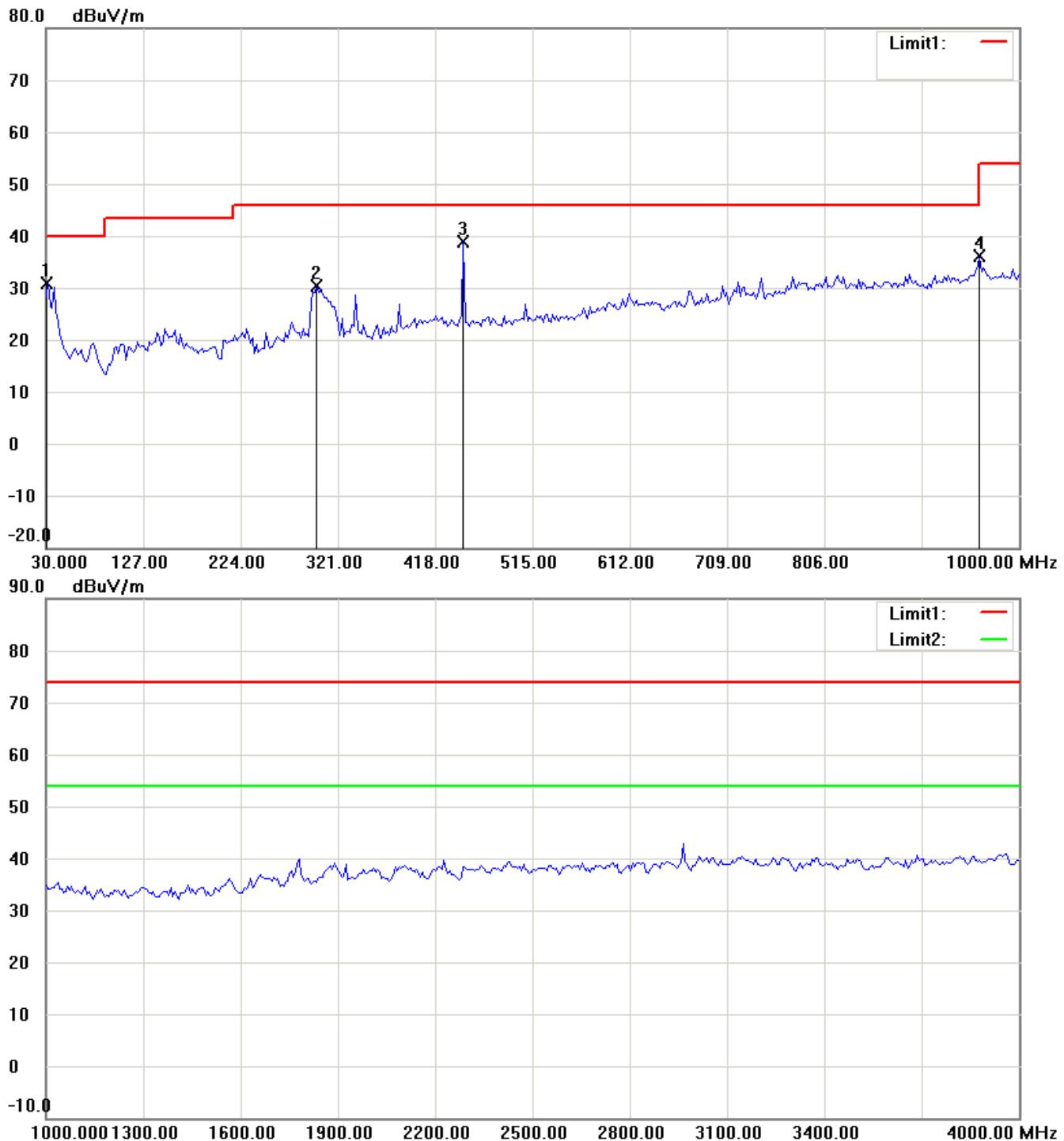
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

802.11a ch165 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

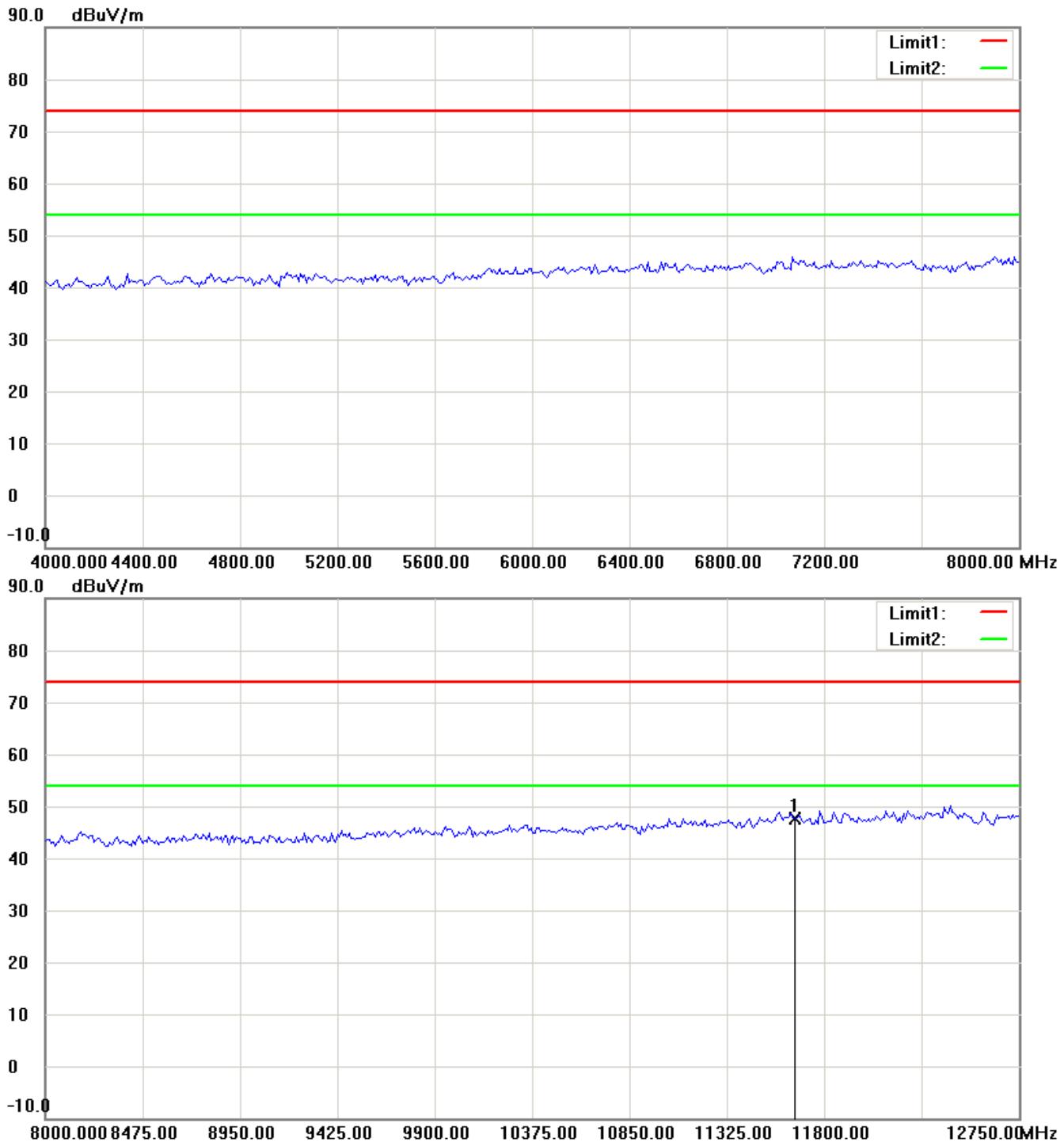
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

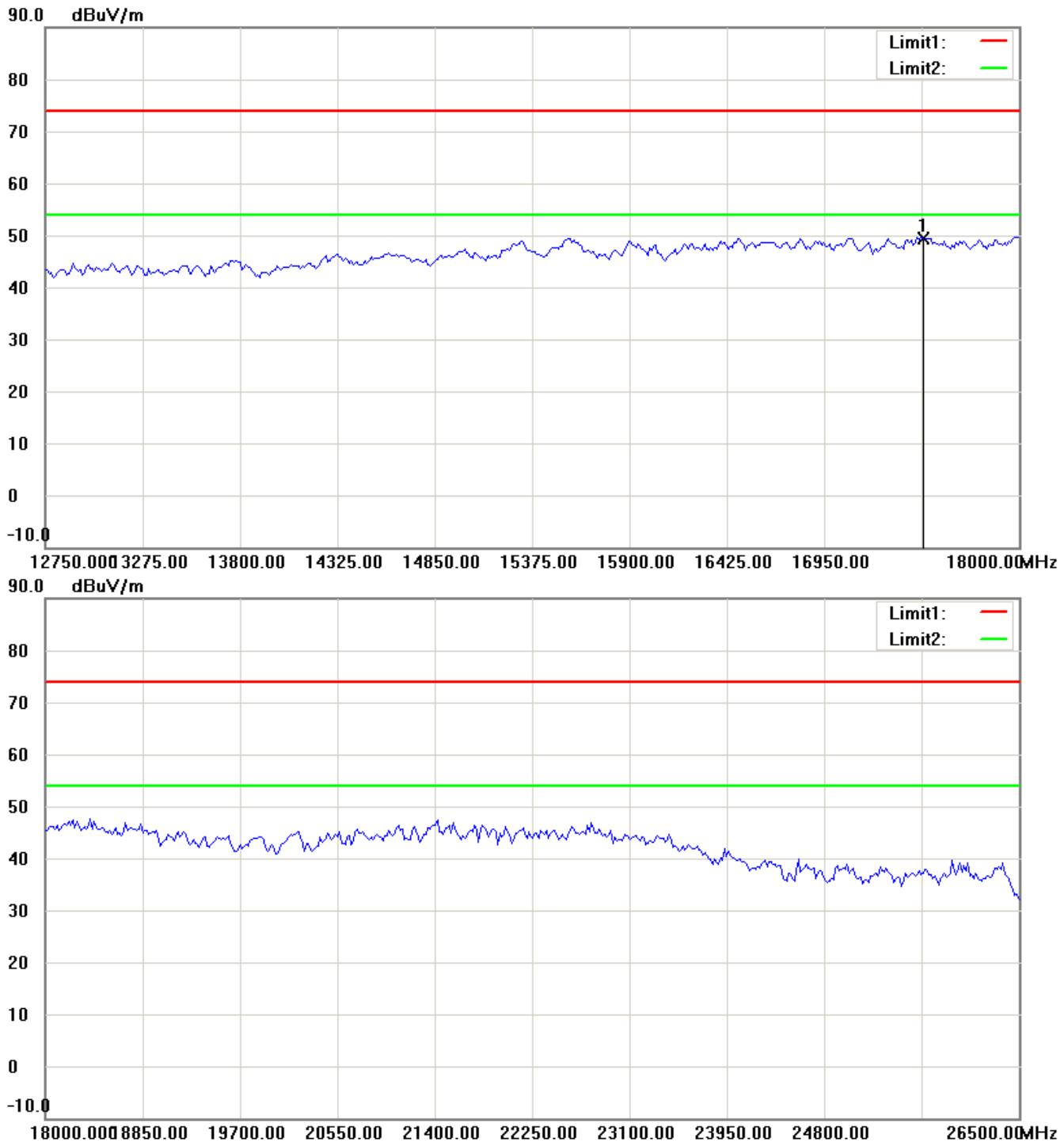
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Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

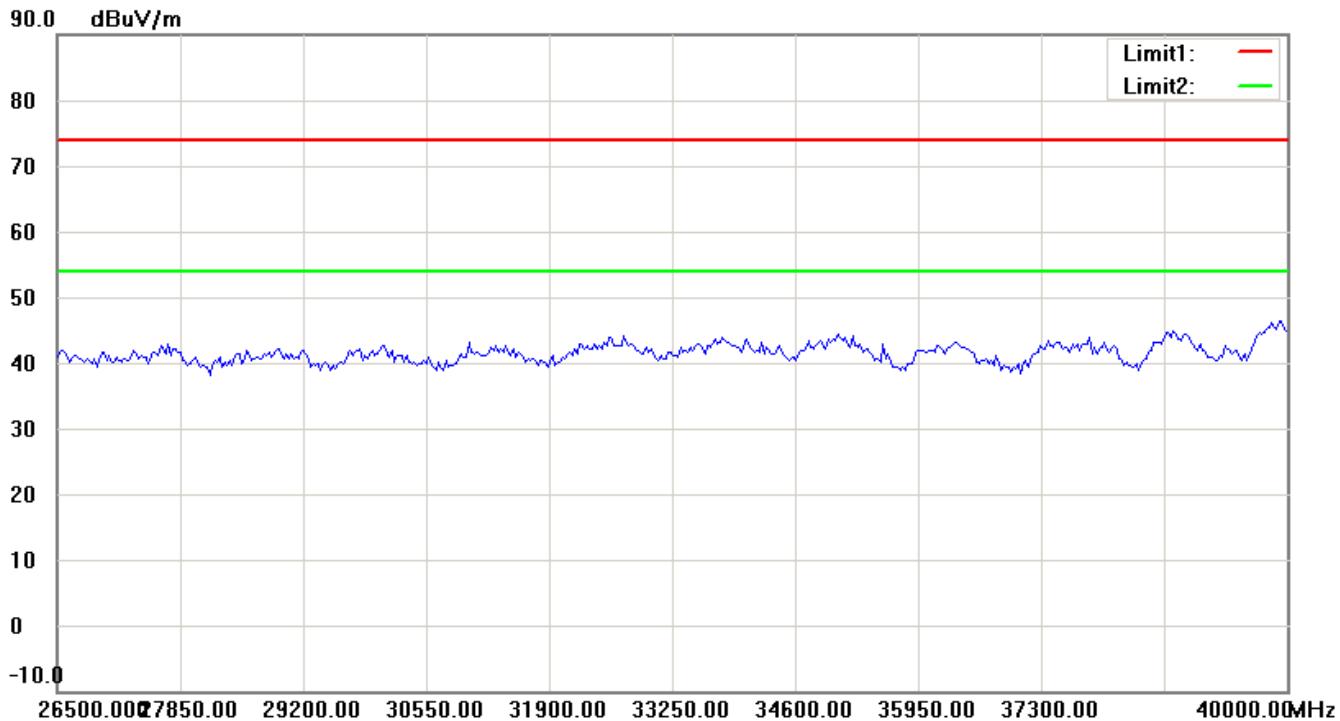
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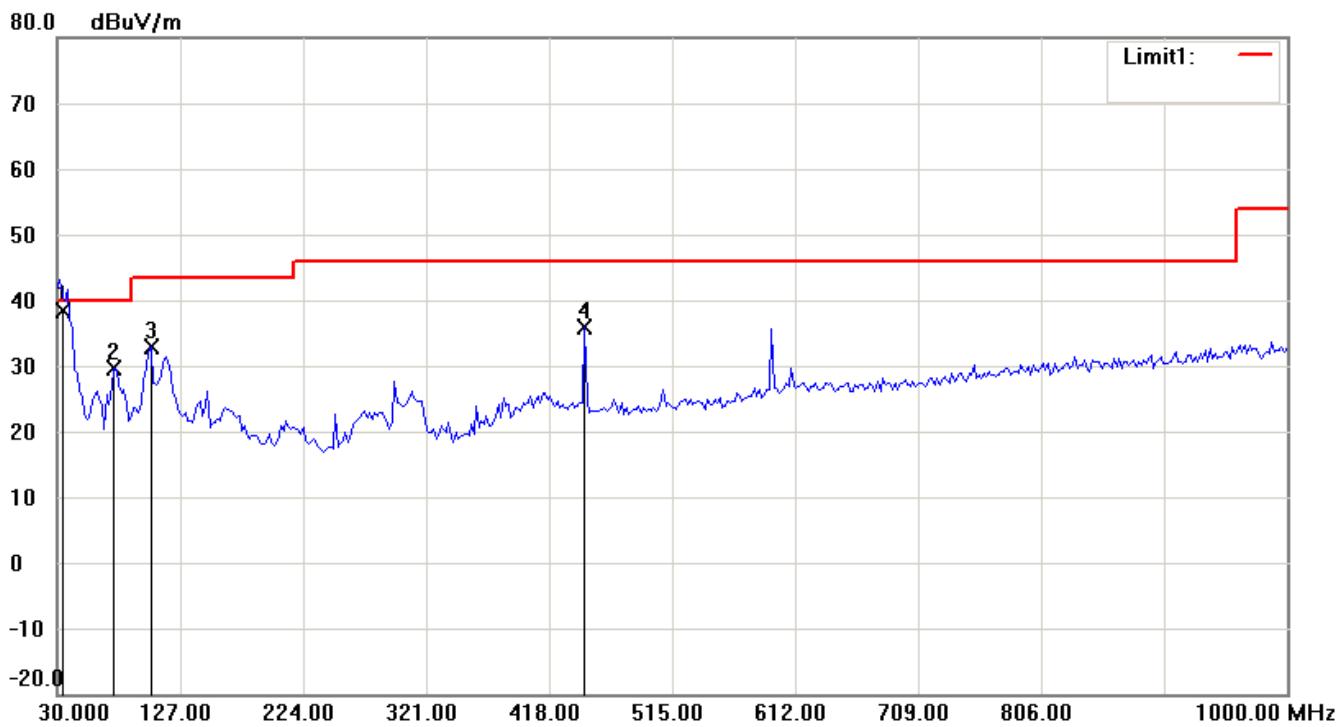
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

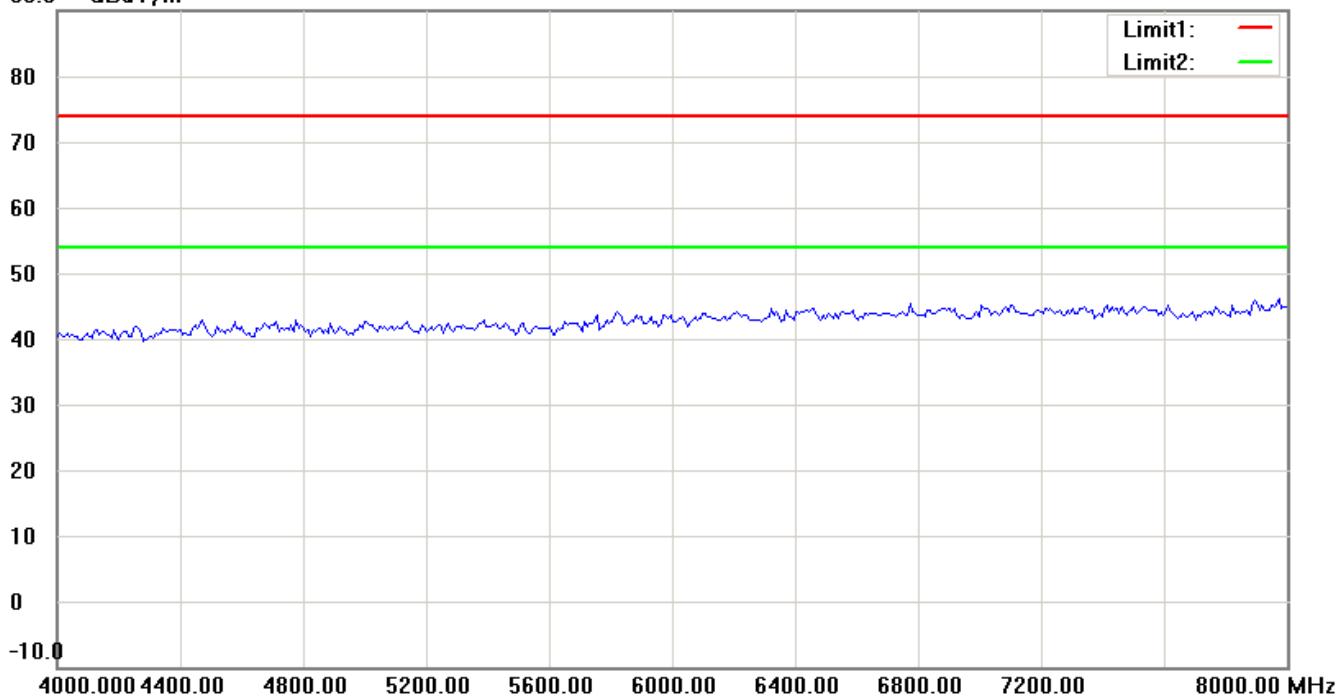
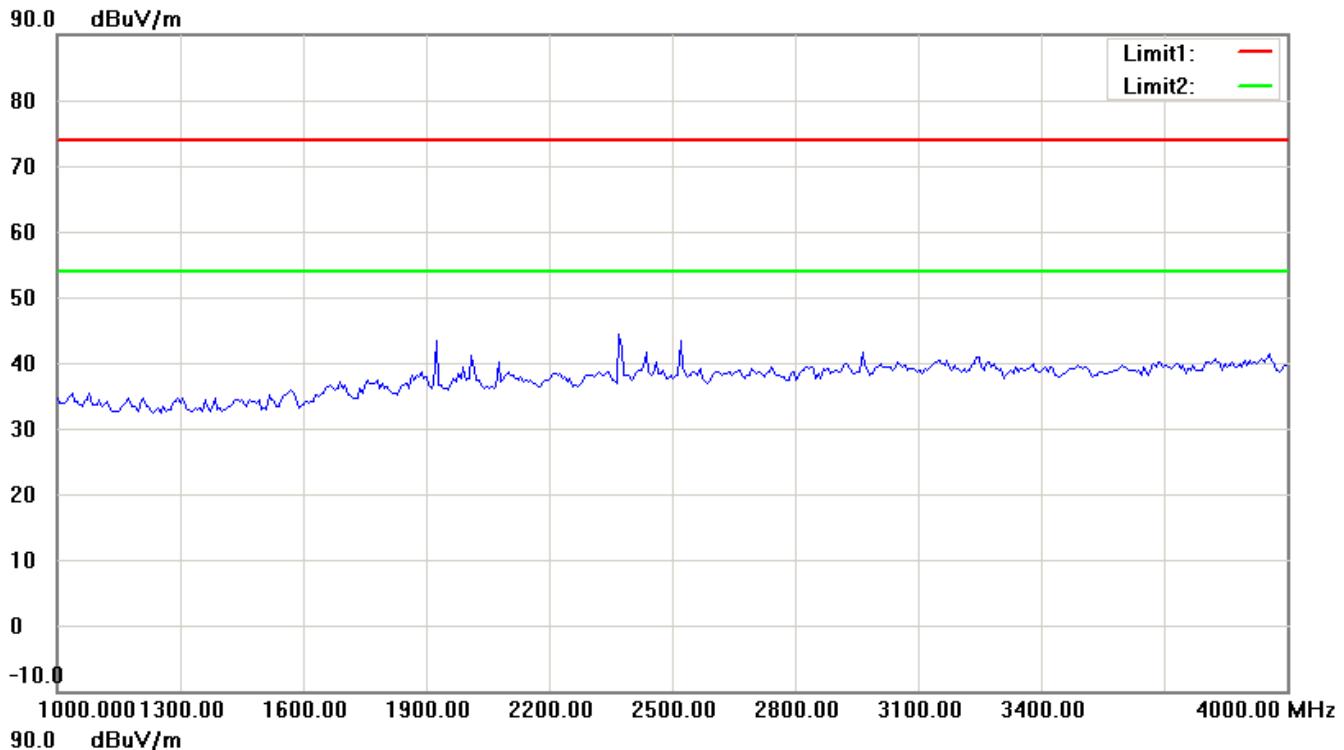
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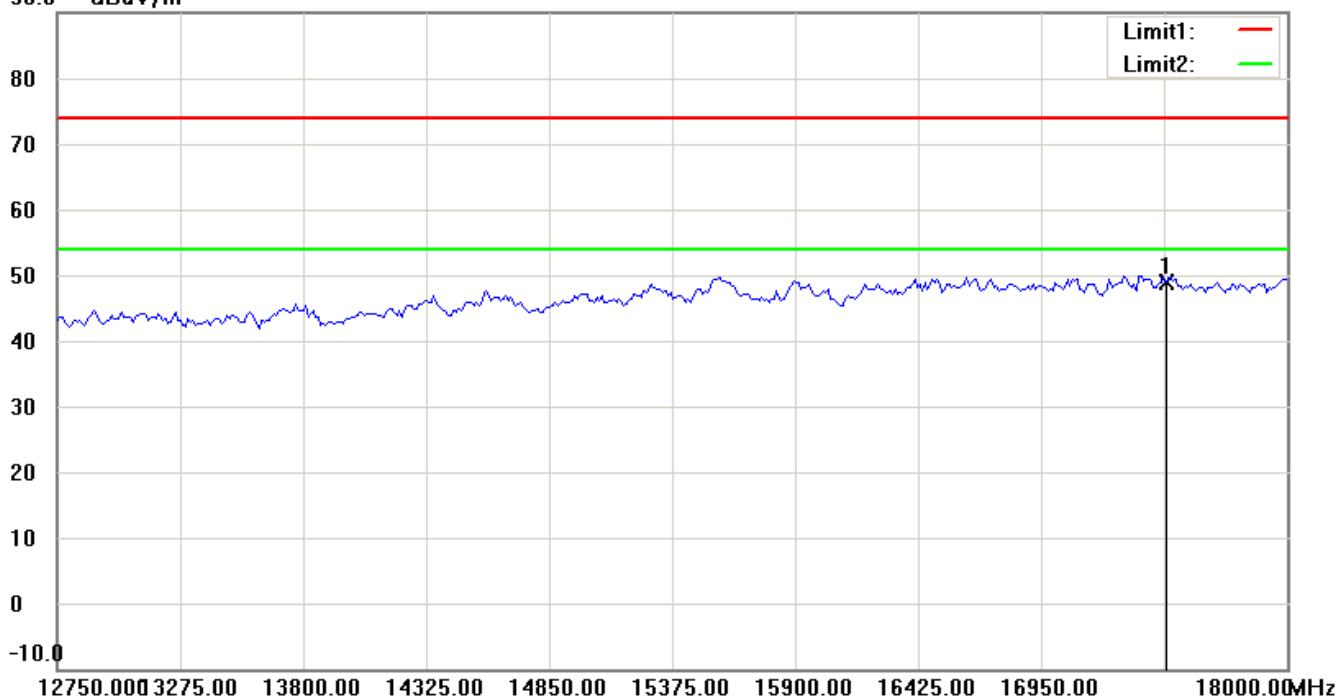
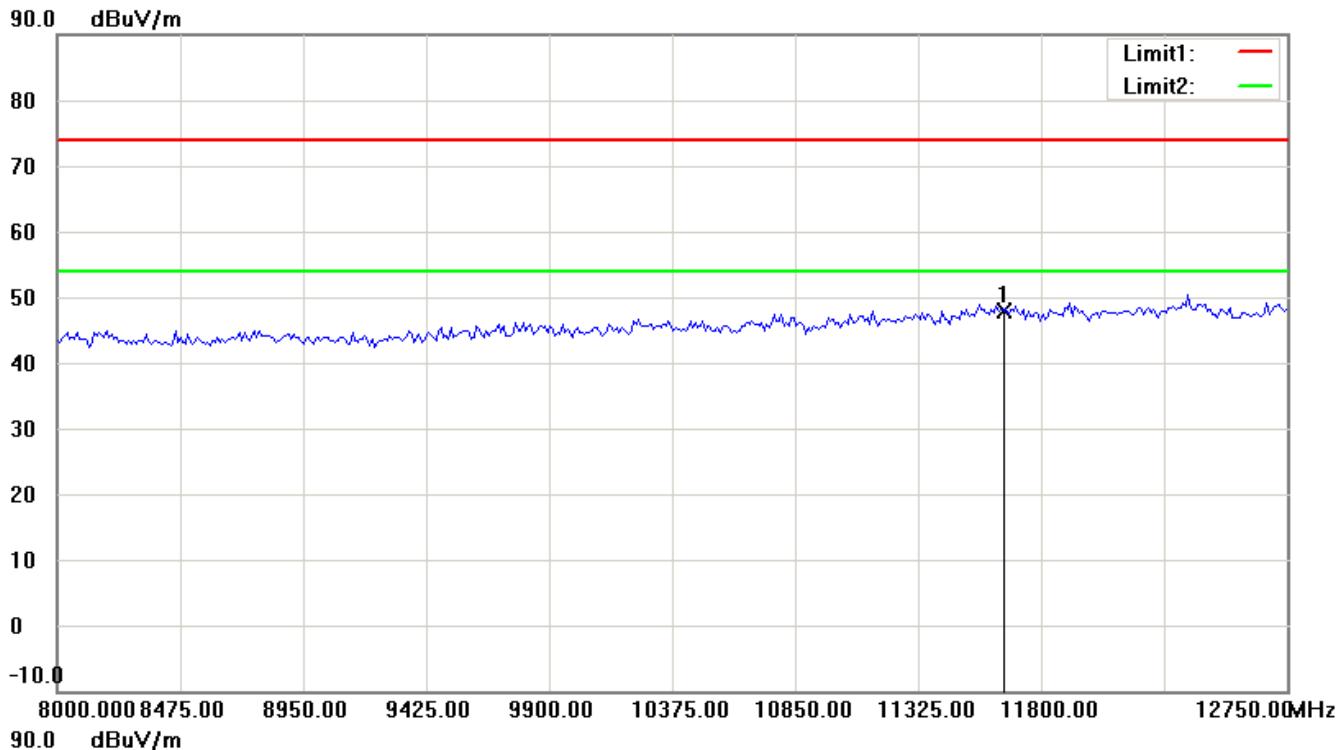
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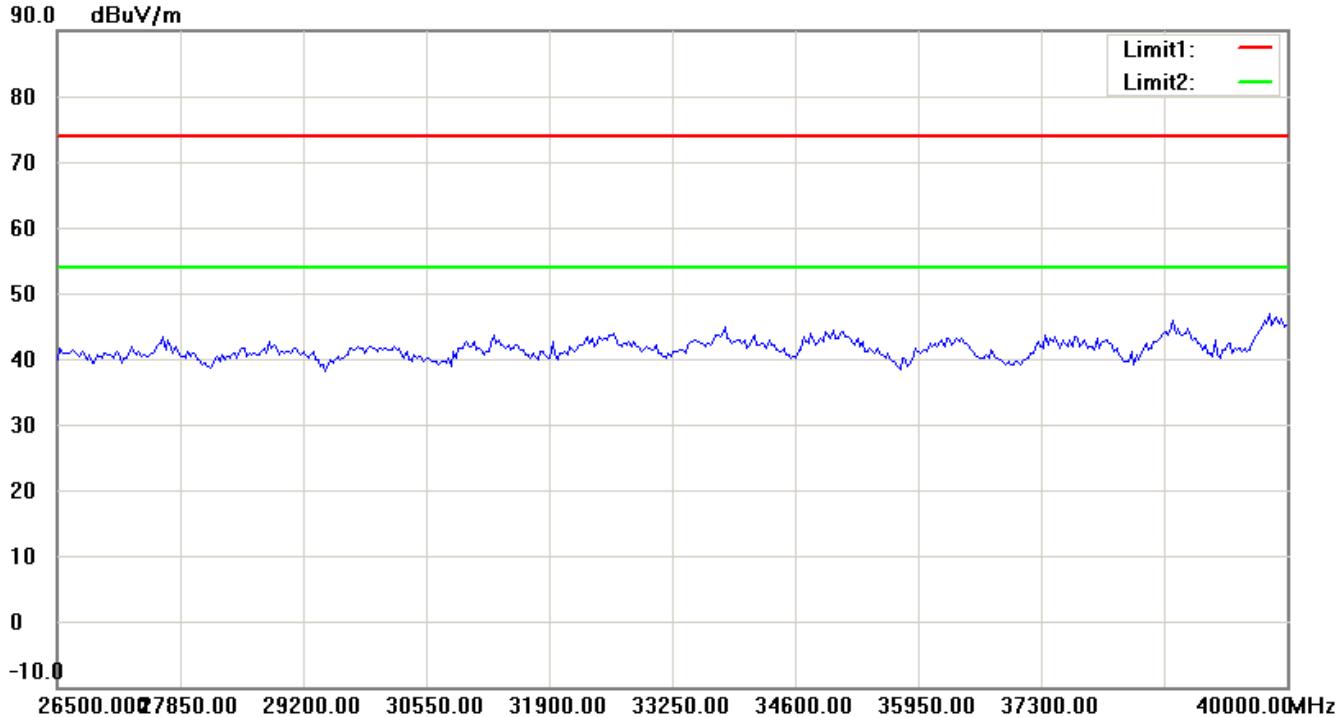
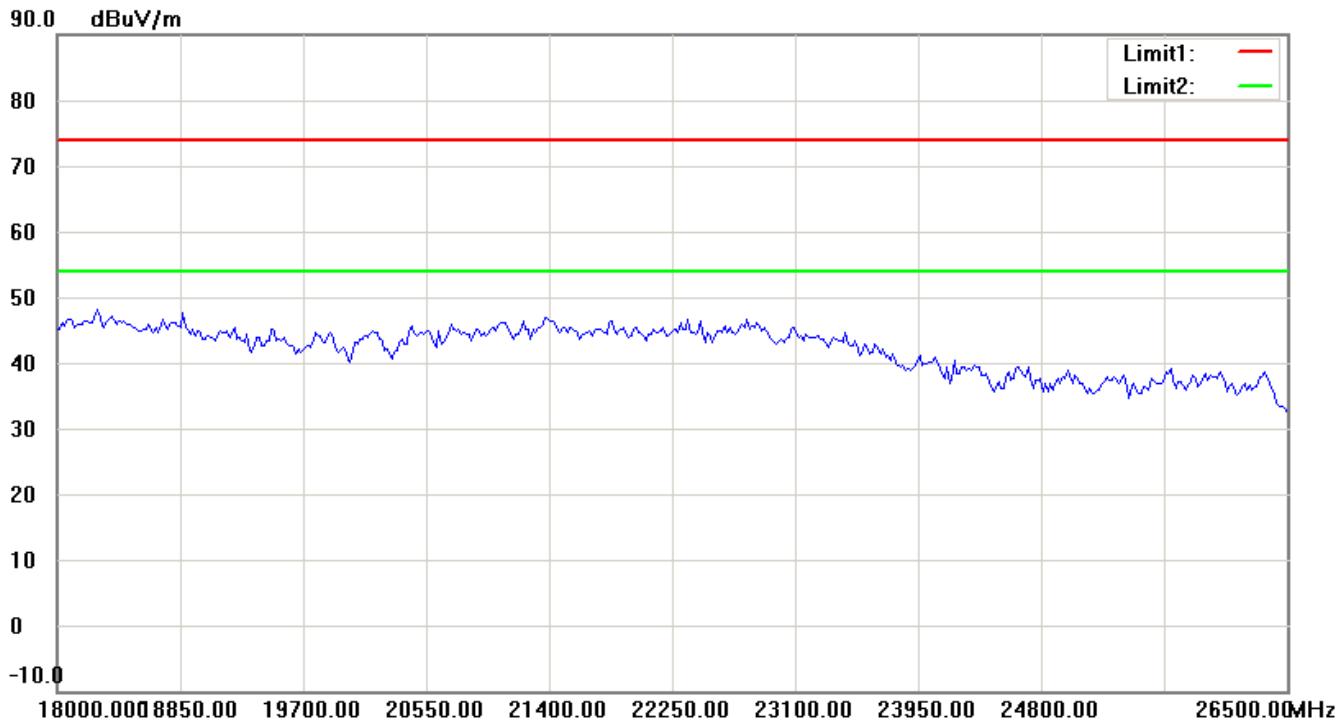
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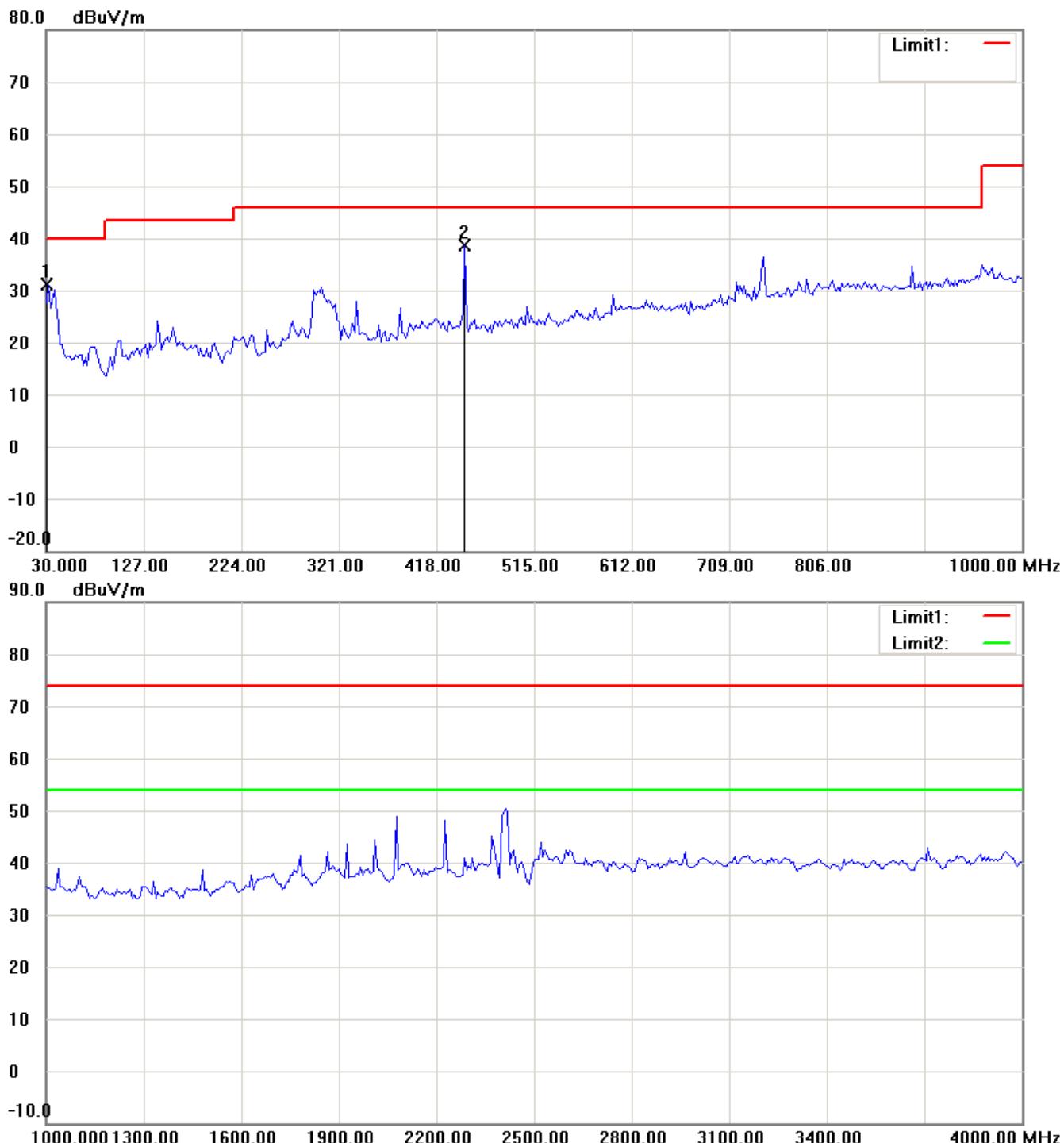
FCC ID: 2AA4J-W6M2130813478

ANT A (ANT 1)+ANT B (ANT 2)

WLAN 2.4GHz

802.11n 20MHz ch1 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

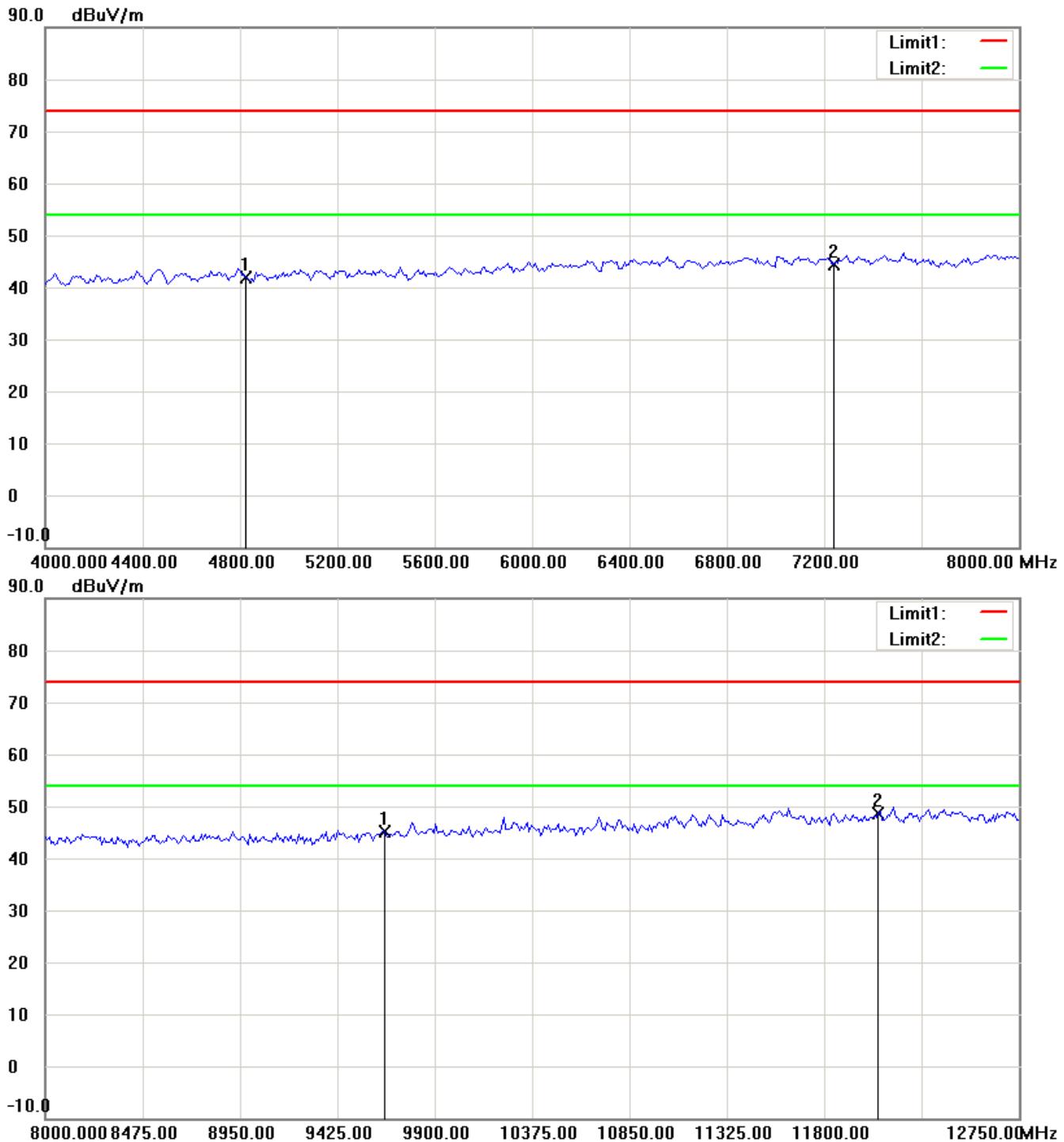
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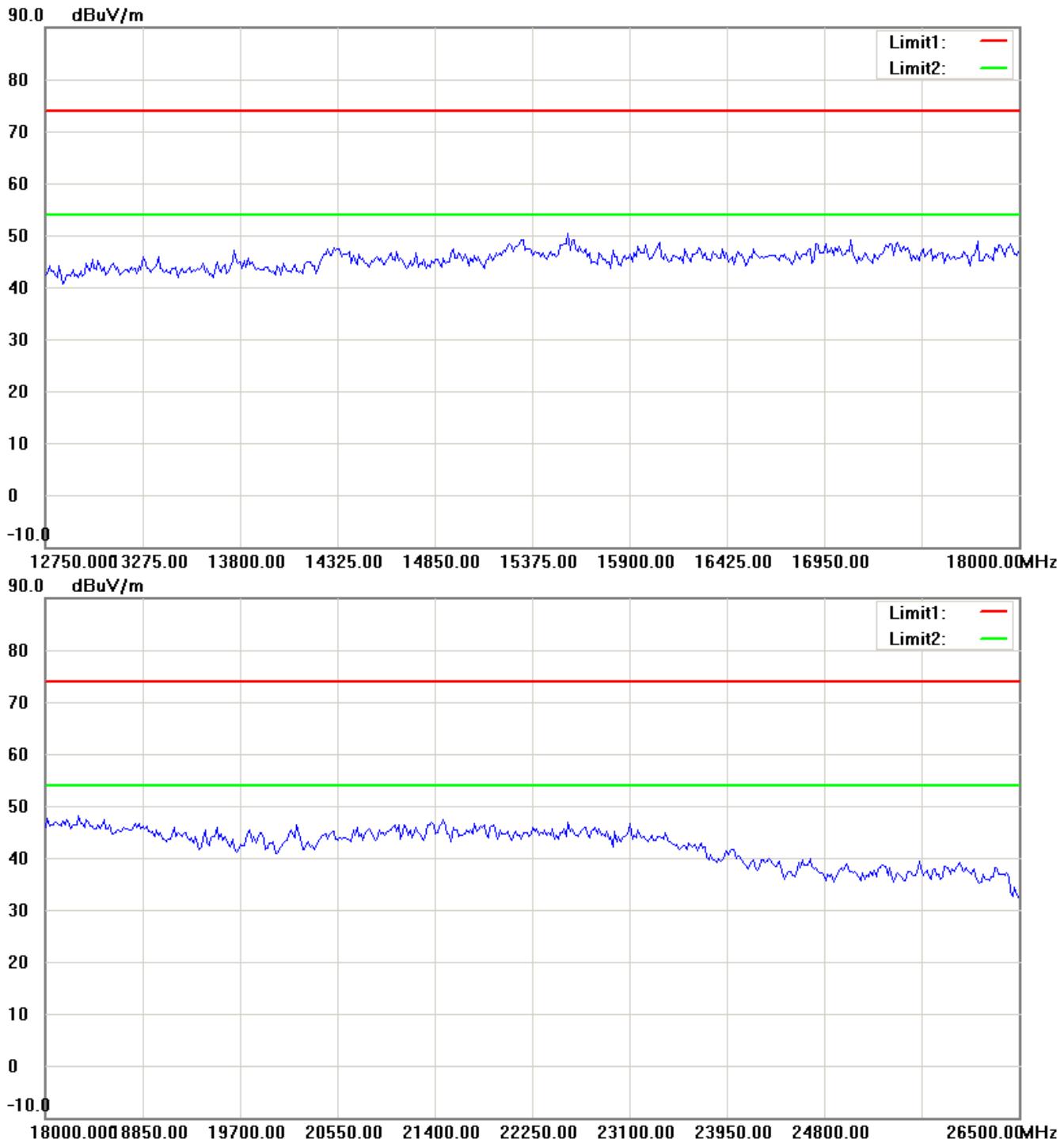
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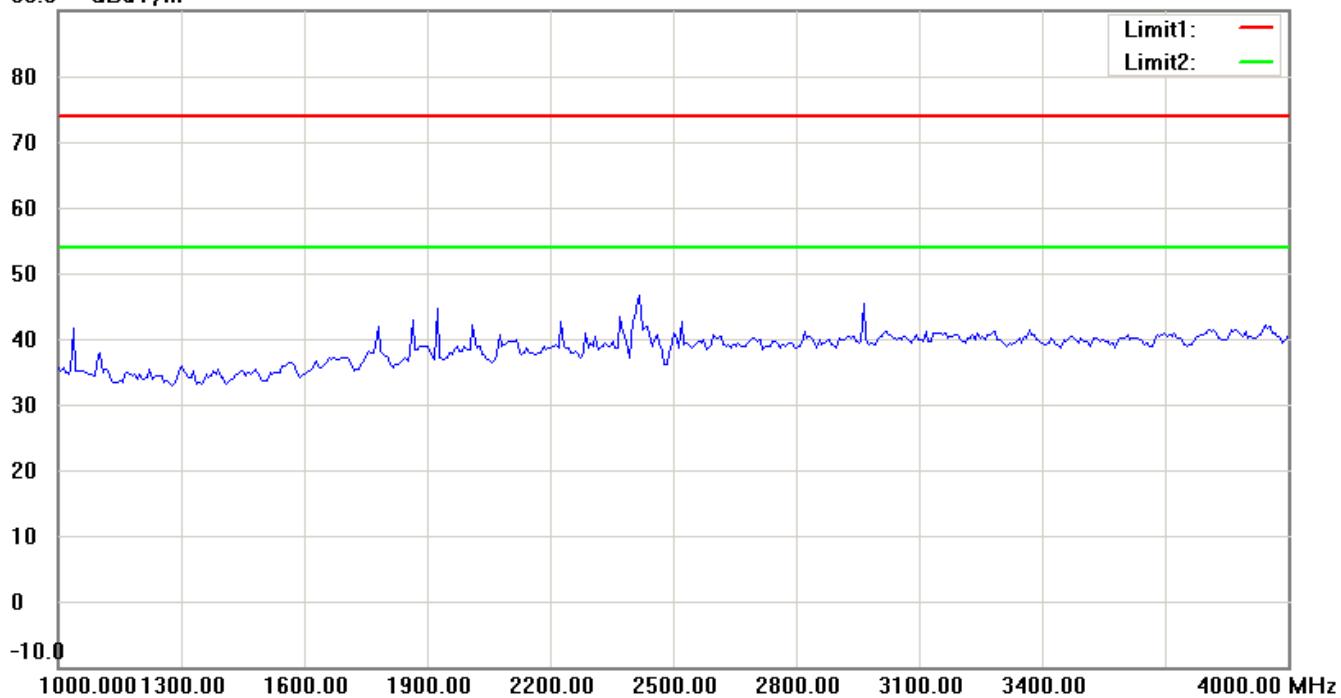
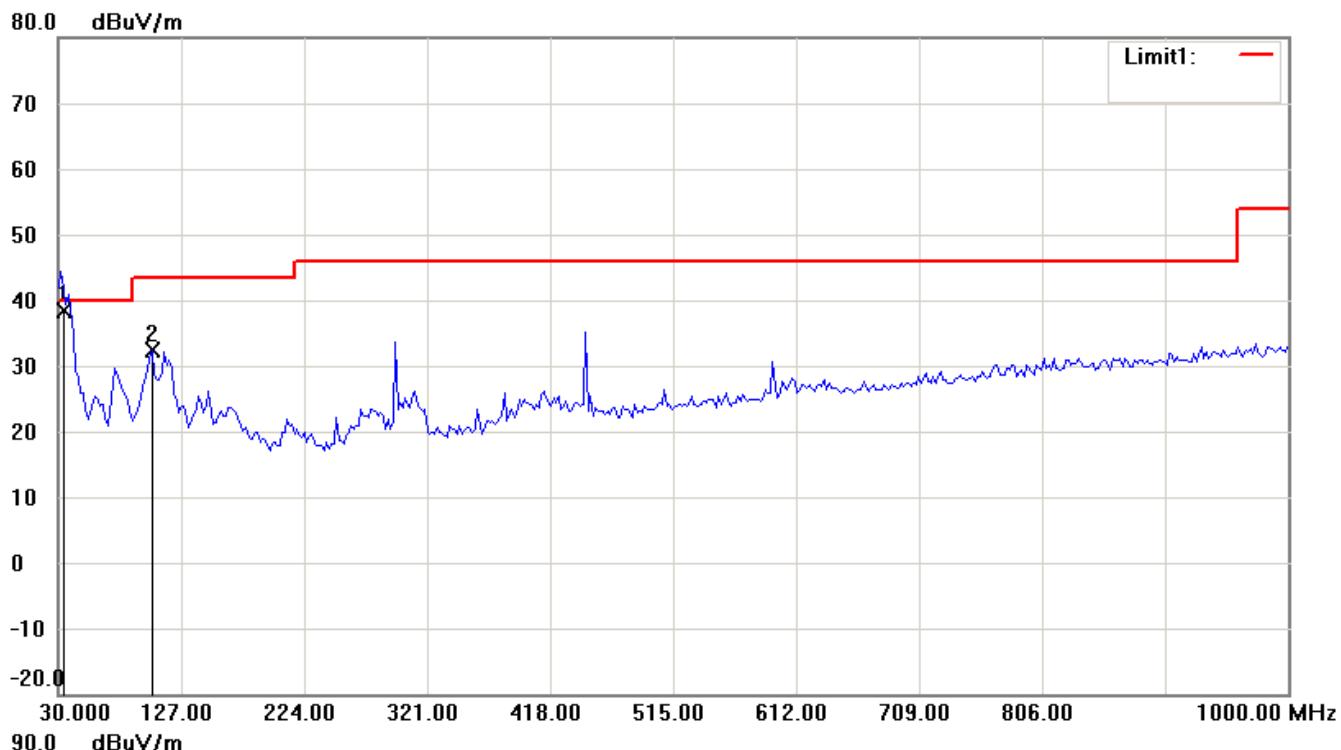


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

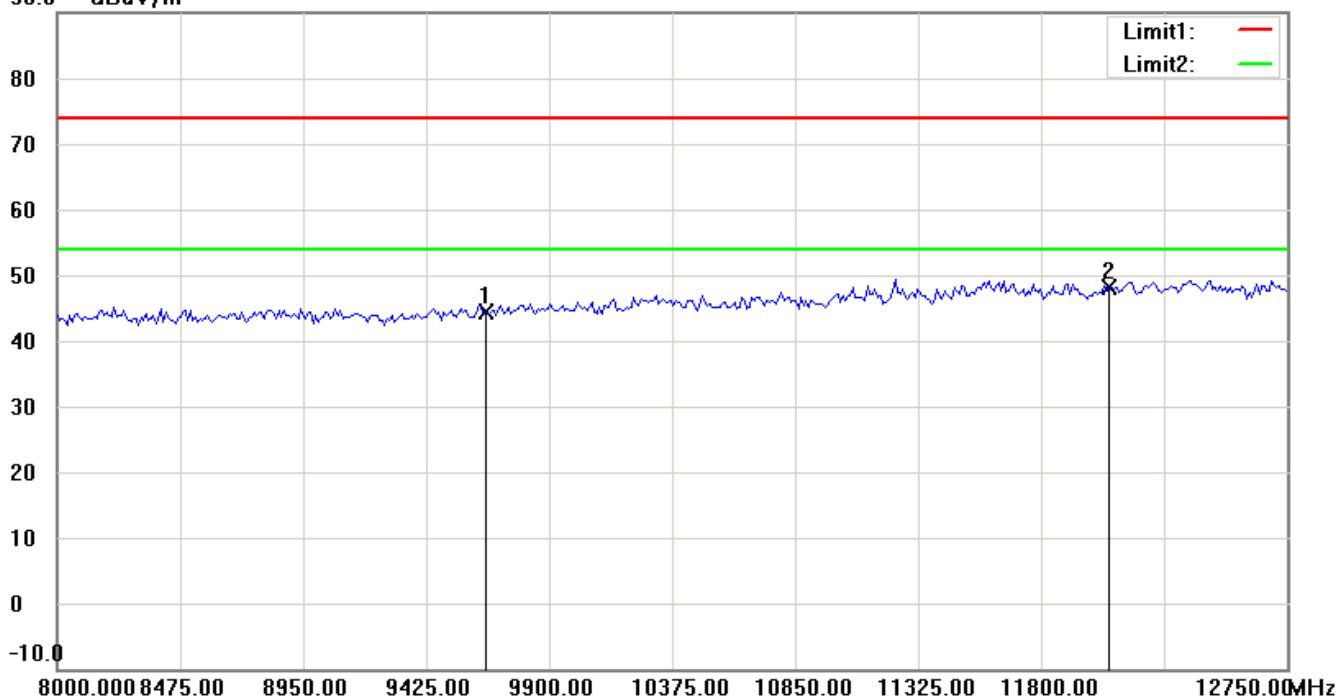
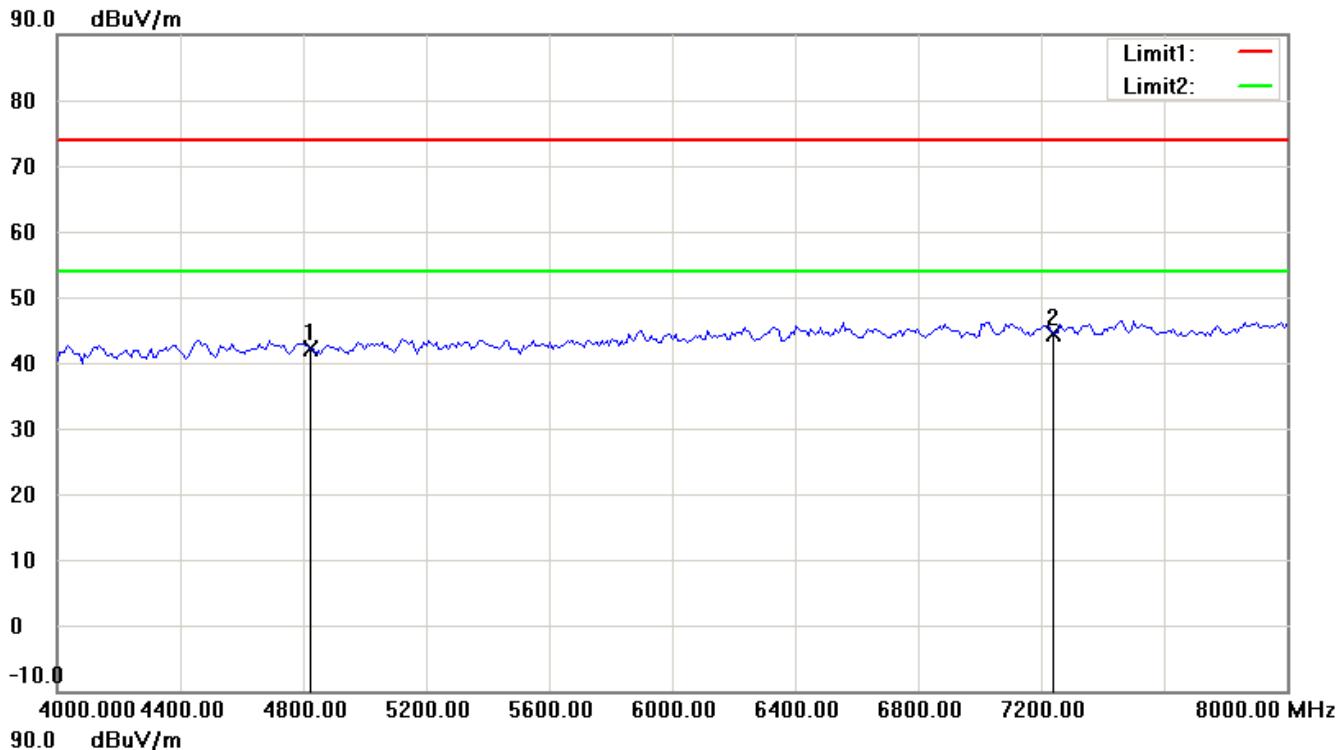
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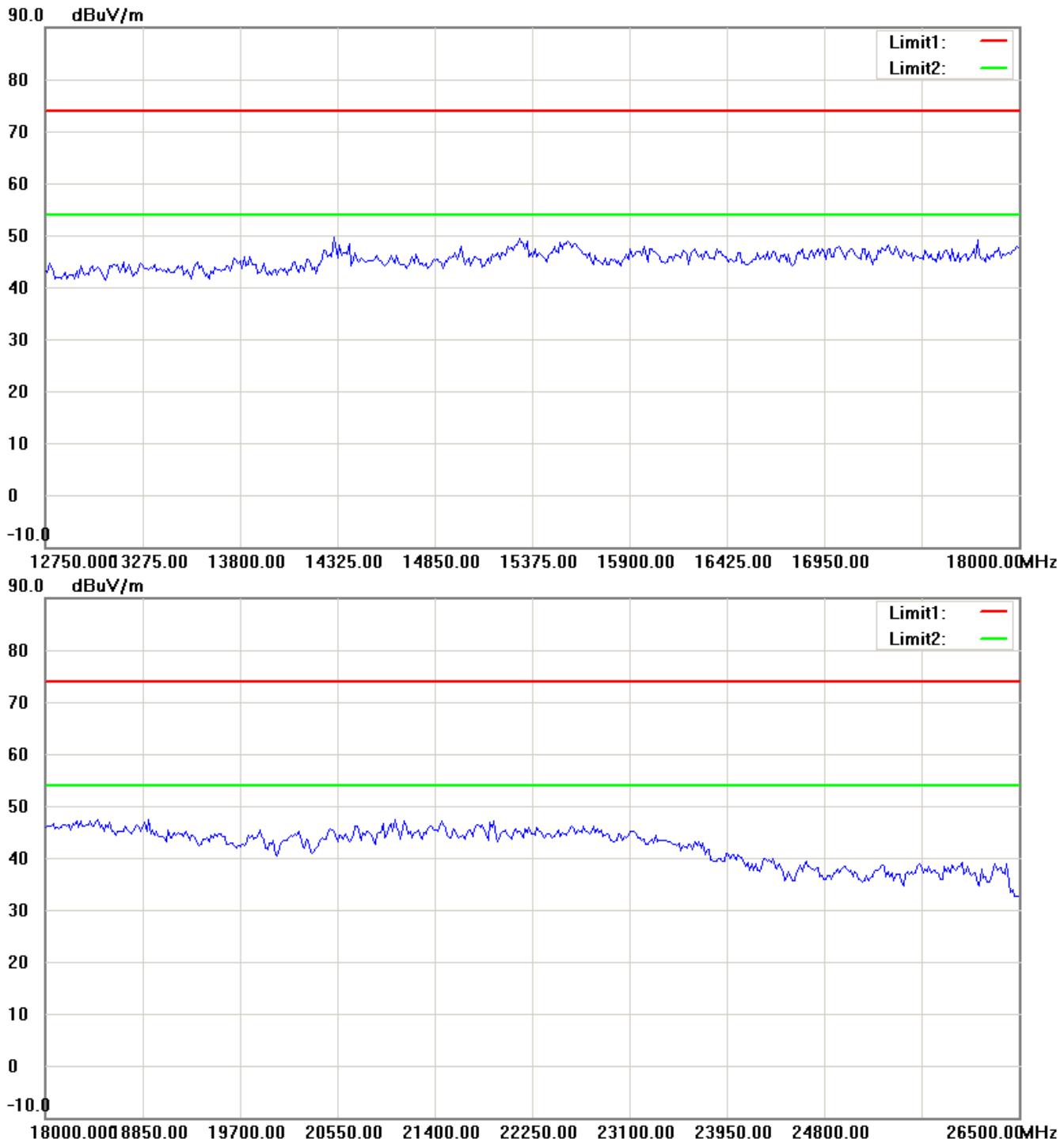
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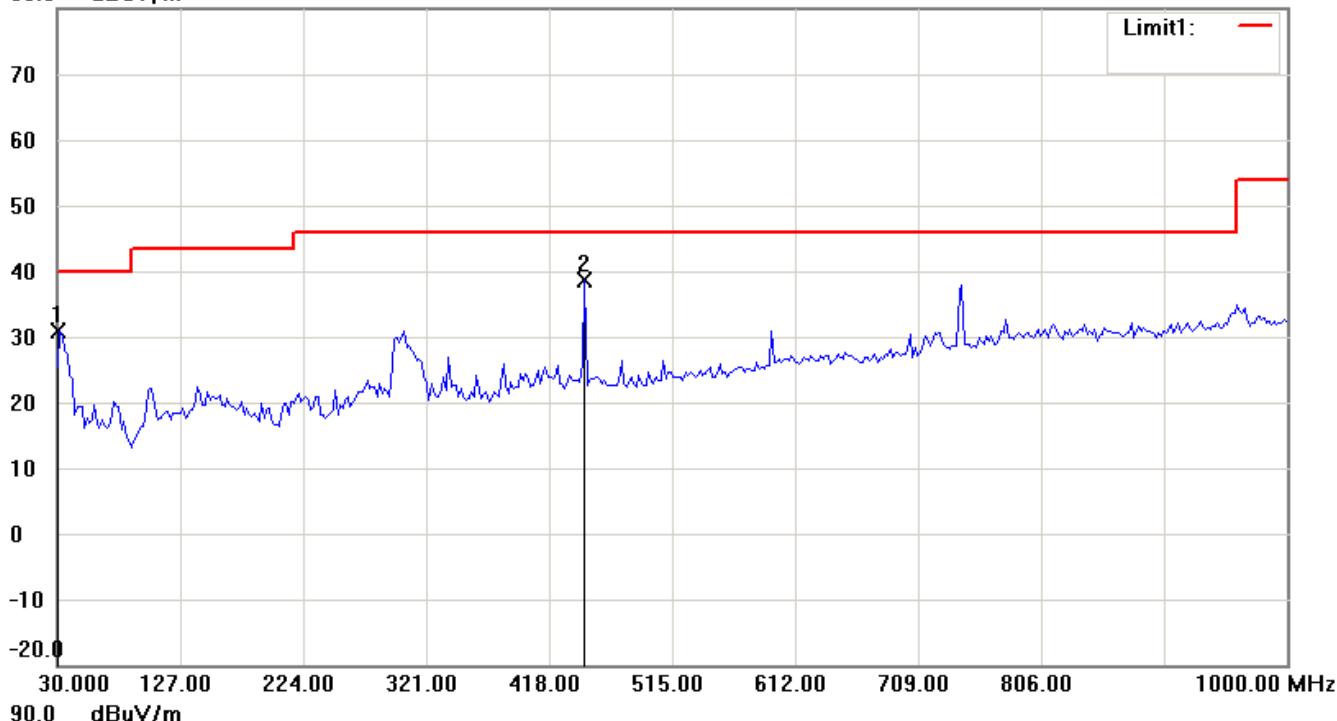
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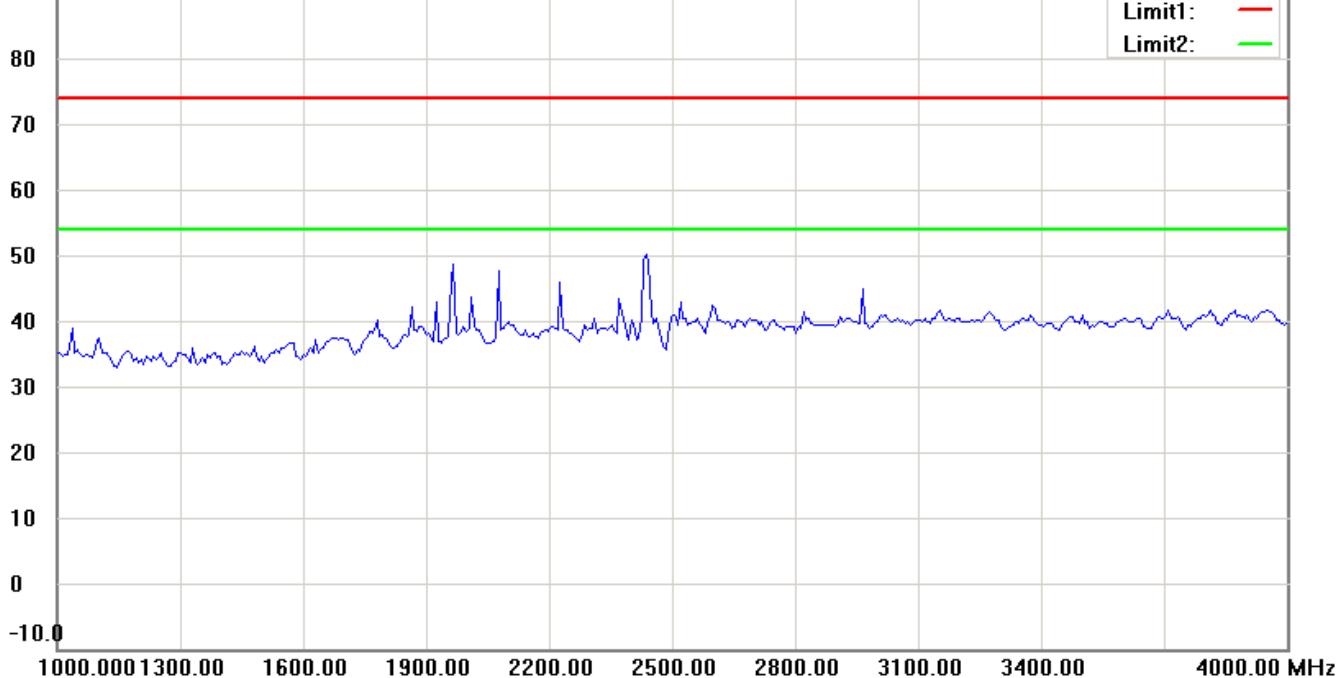
802.11n 20MHz ch6 TX

Antenna Polarization H

80.0 dBuV/m



90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

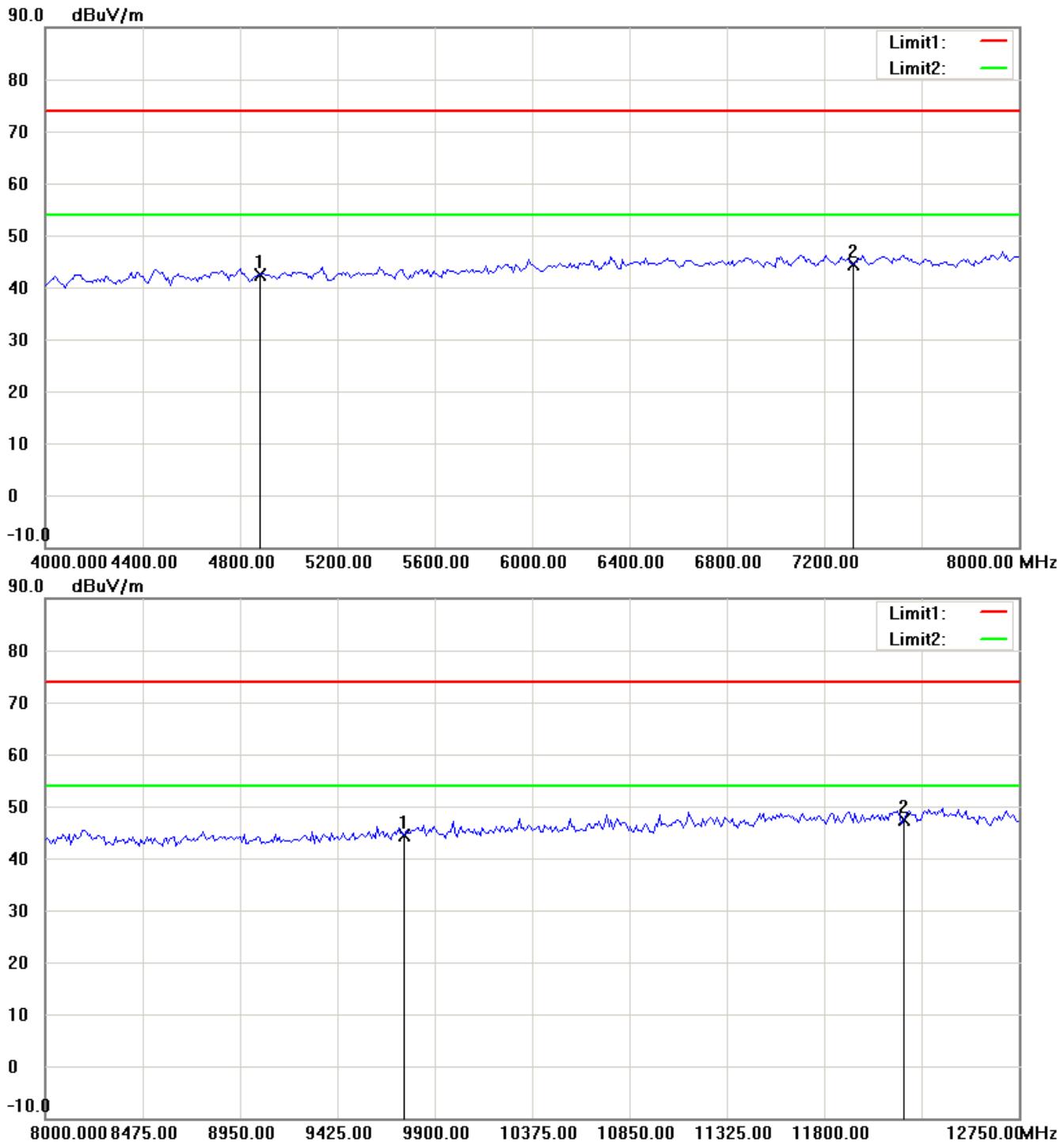
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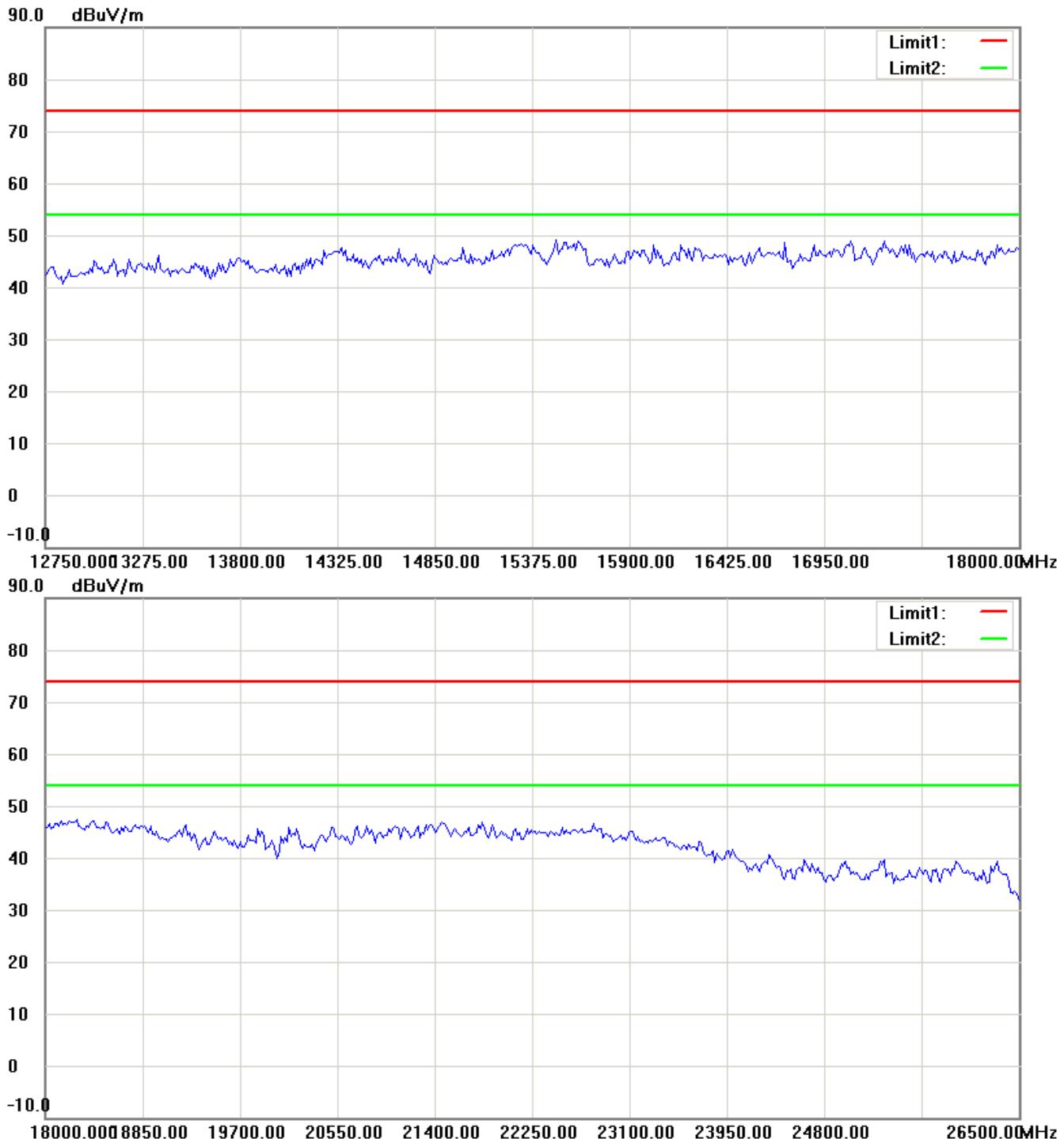
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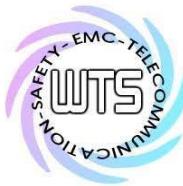
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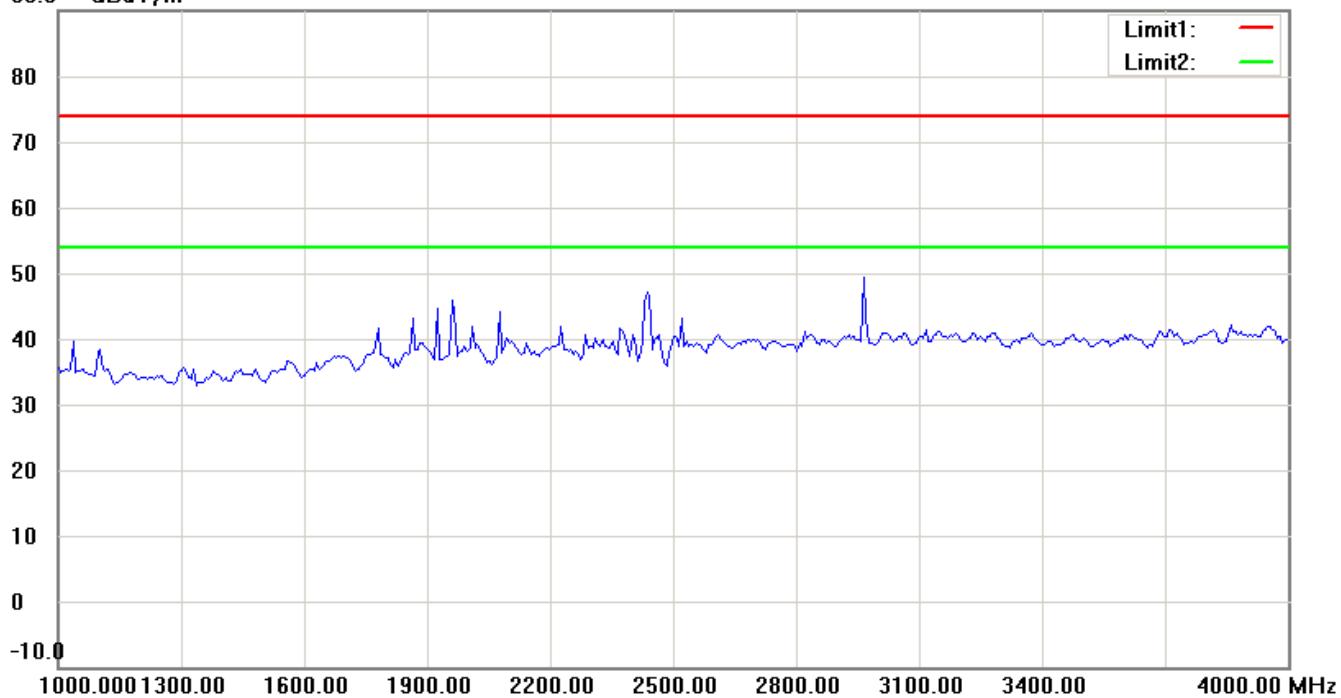
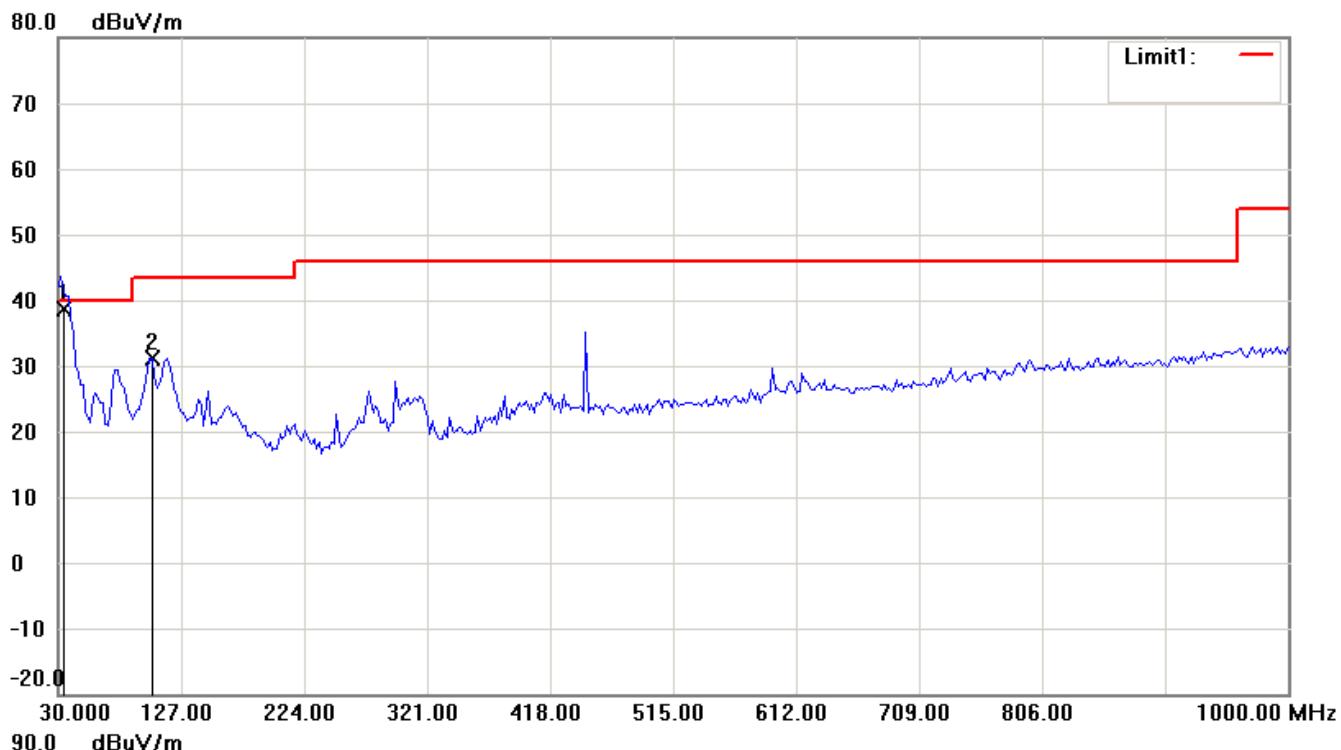


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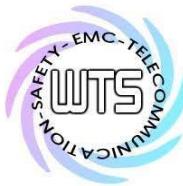
## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

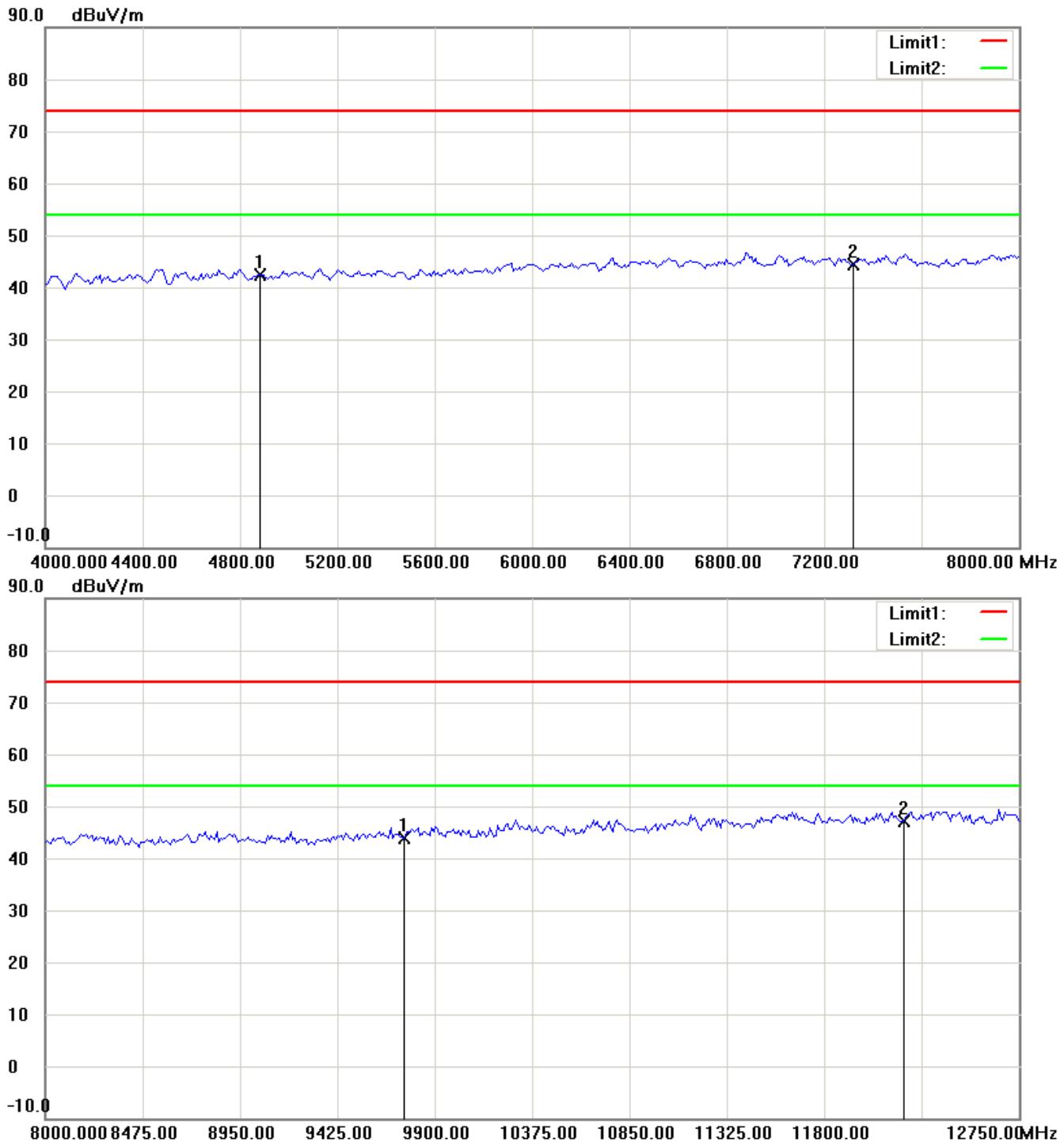
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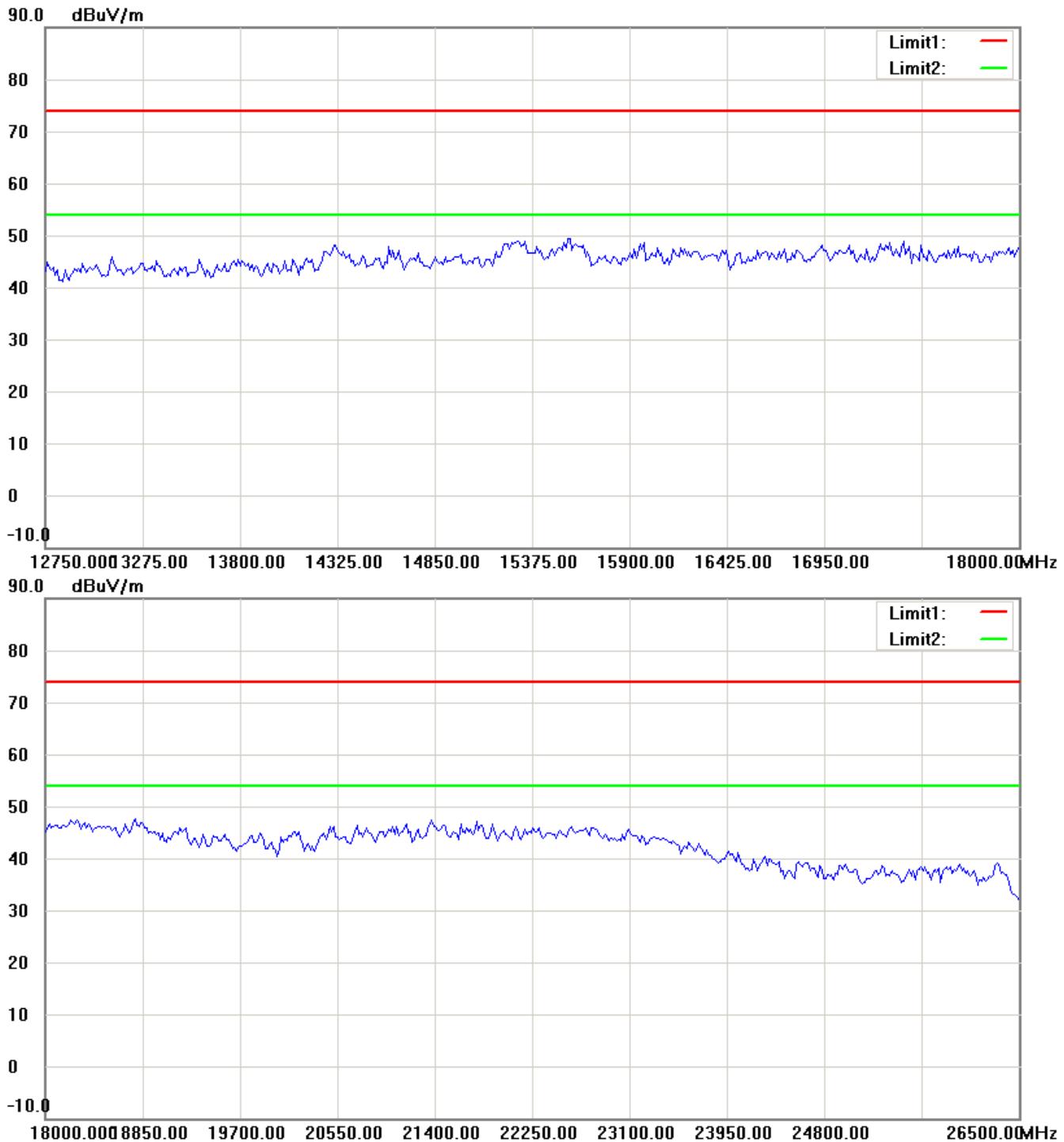
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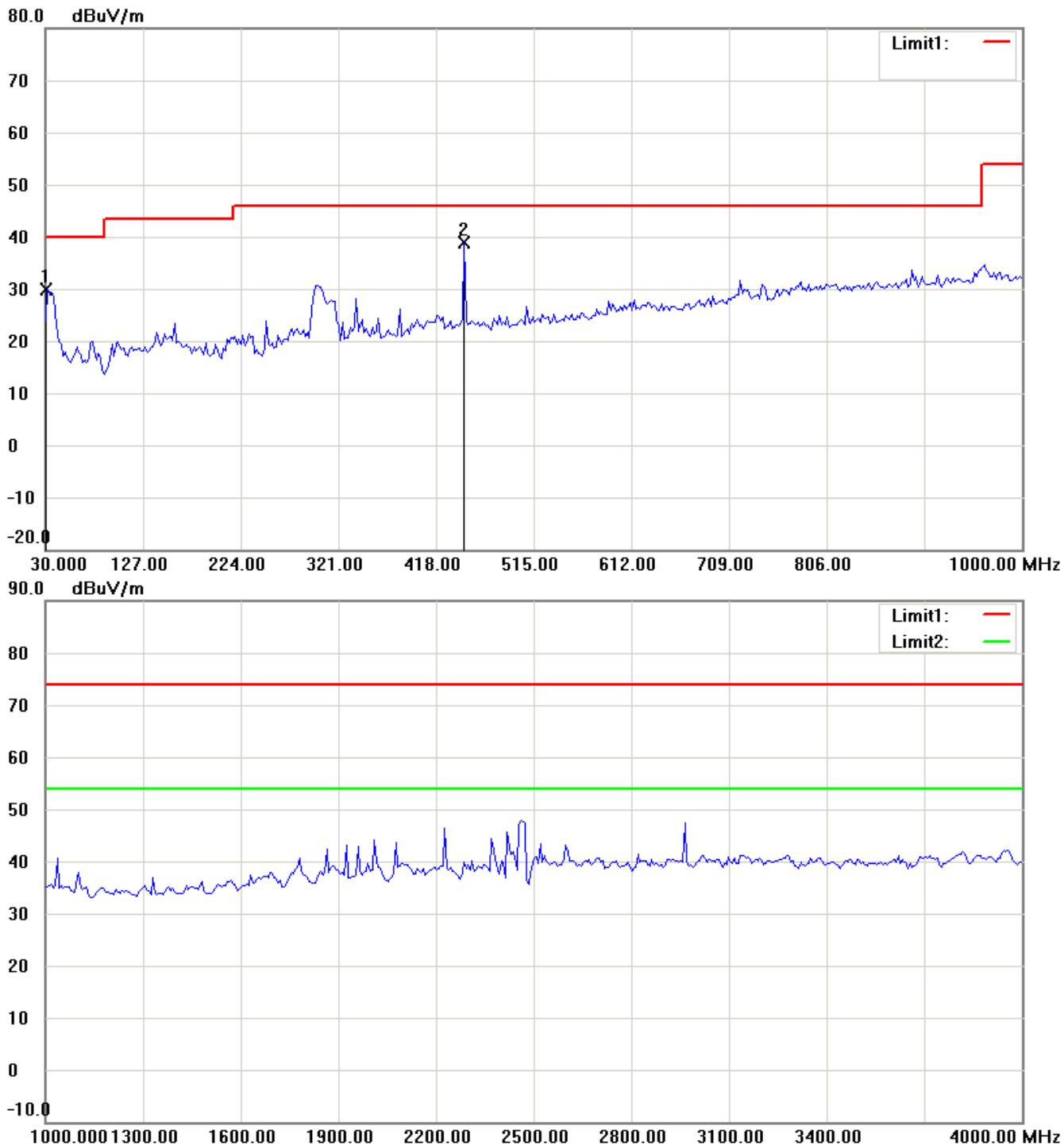
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

802.11n 20MHz ch11 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

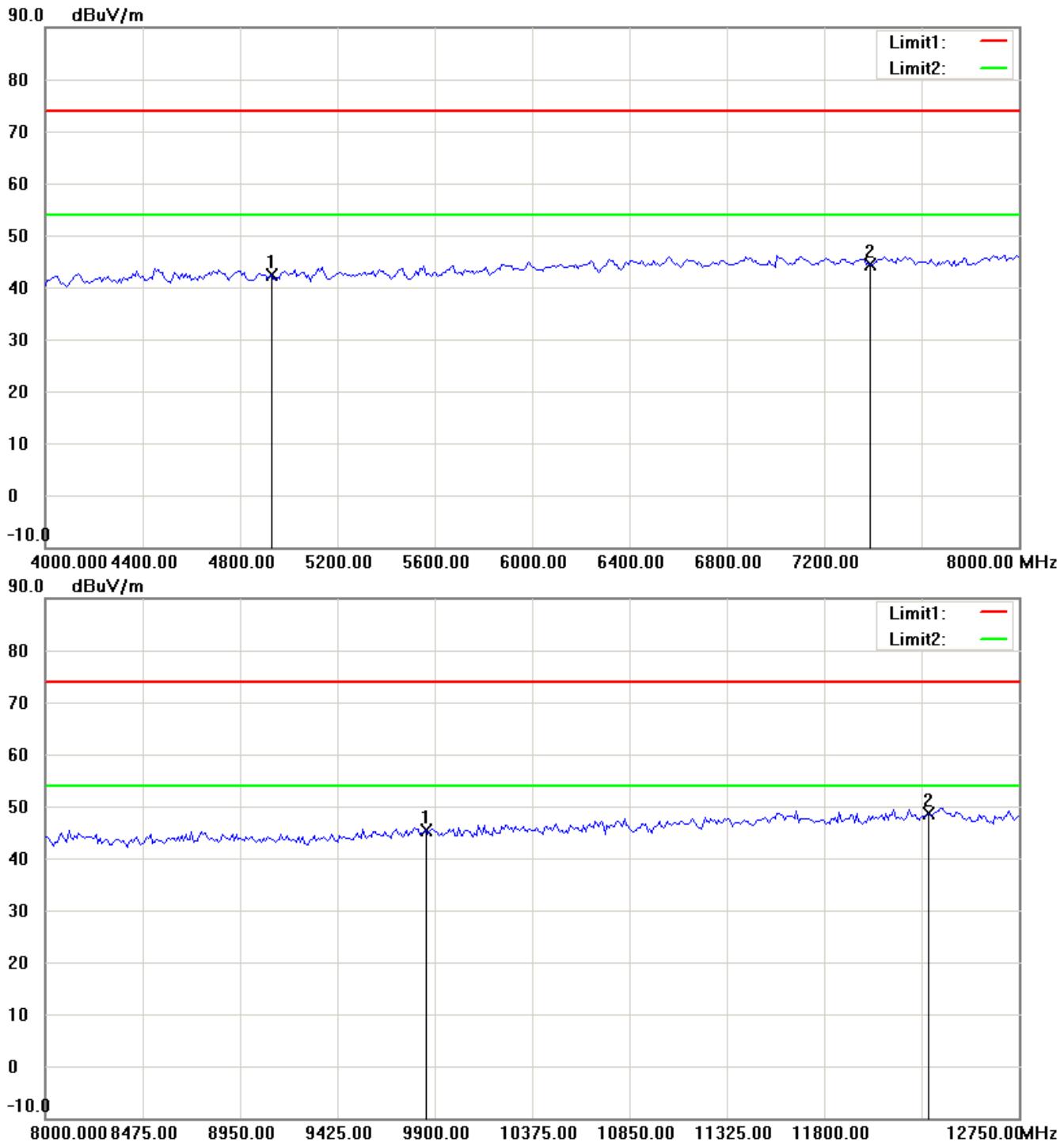
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

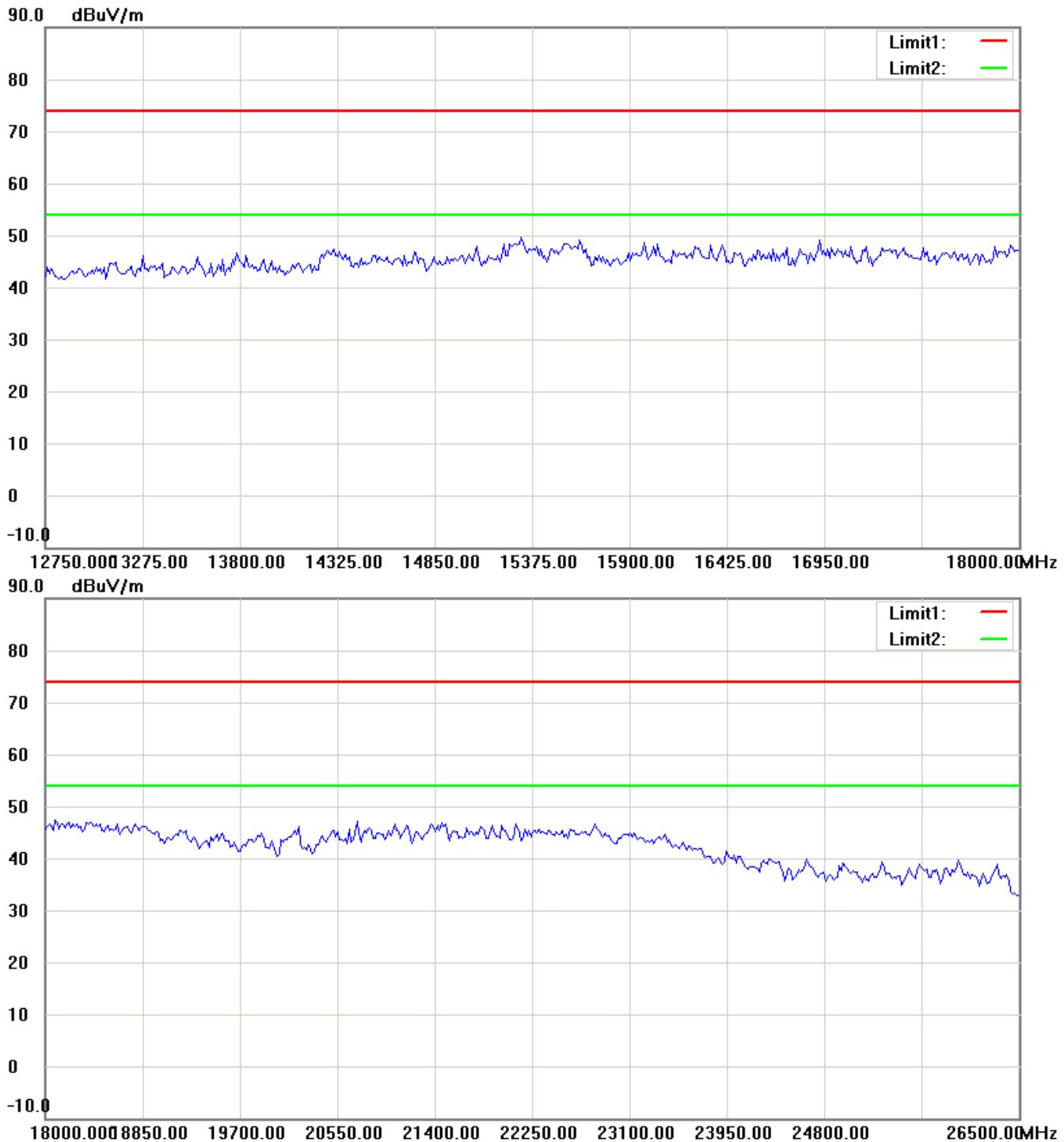
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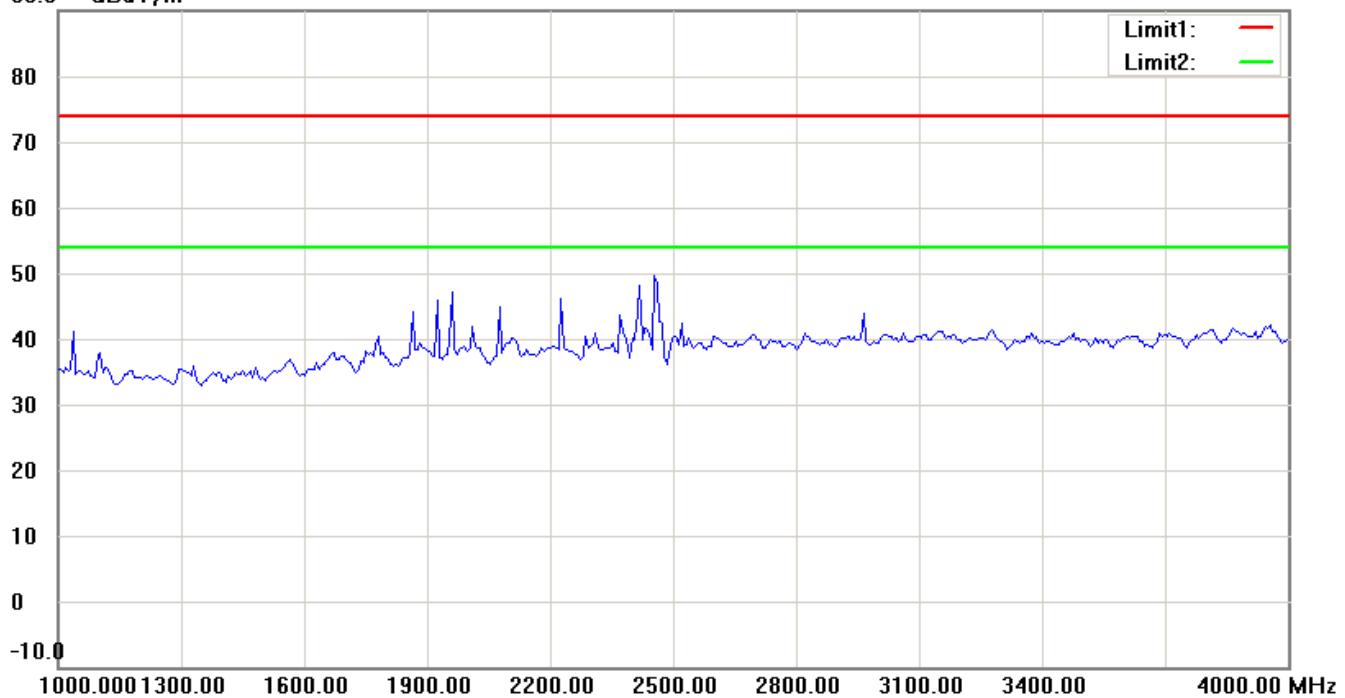
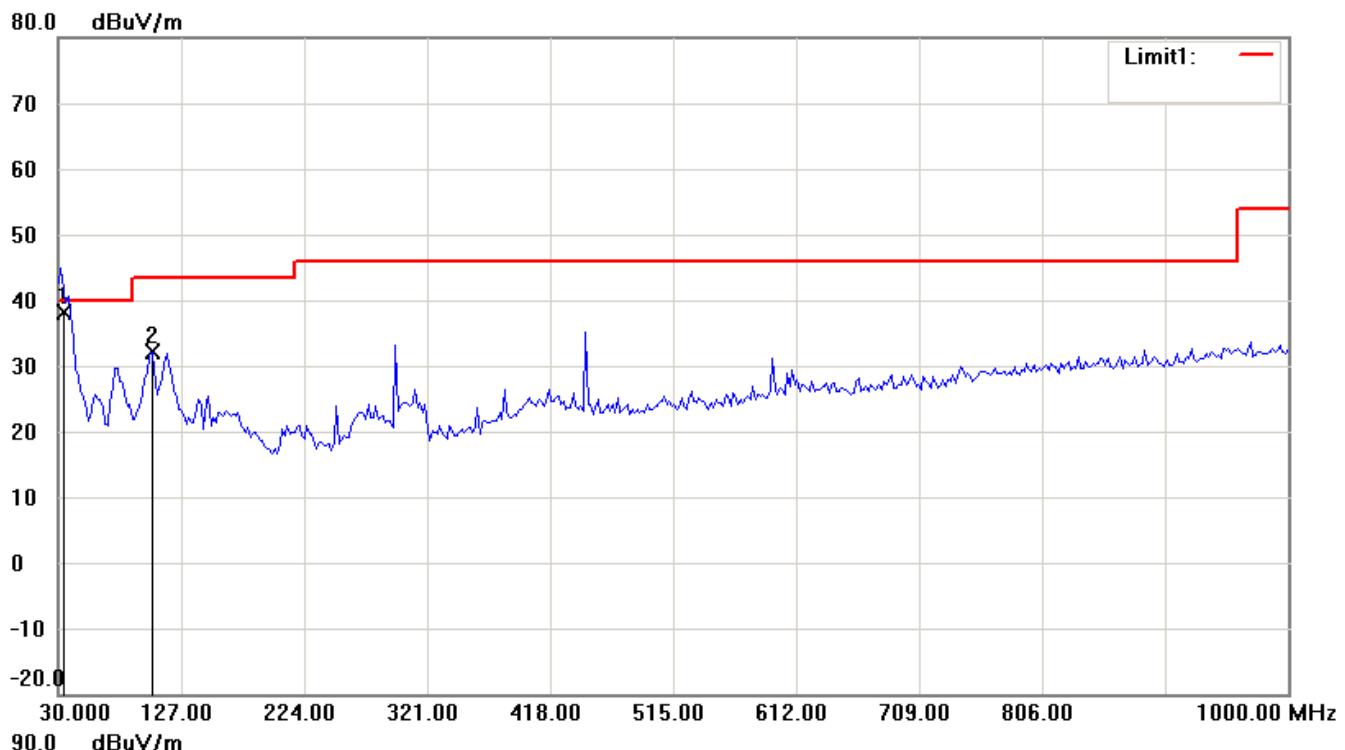


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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

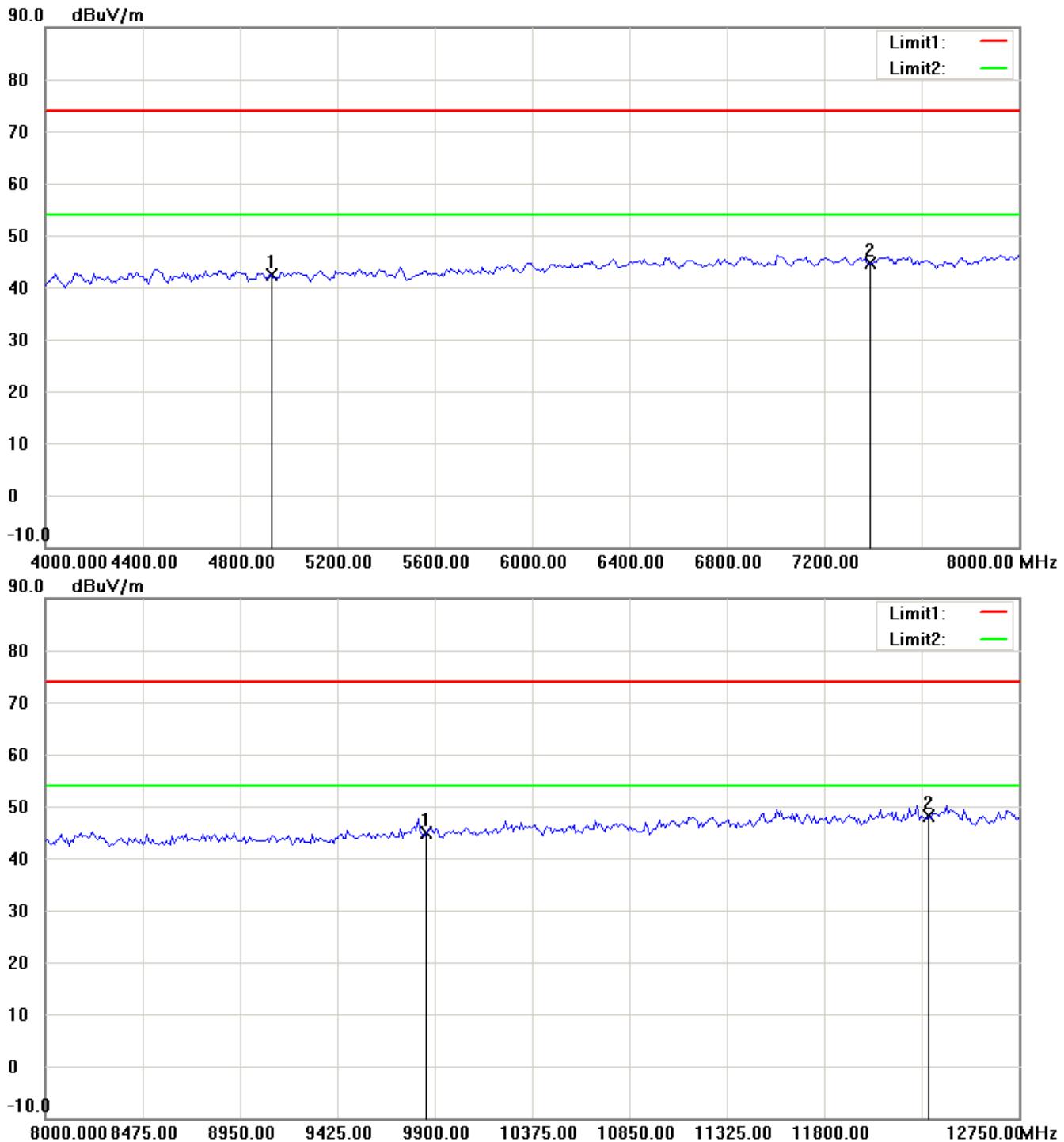
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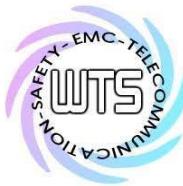
FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

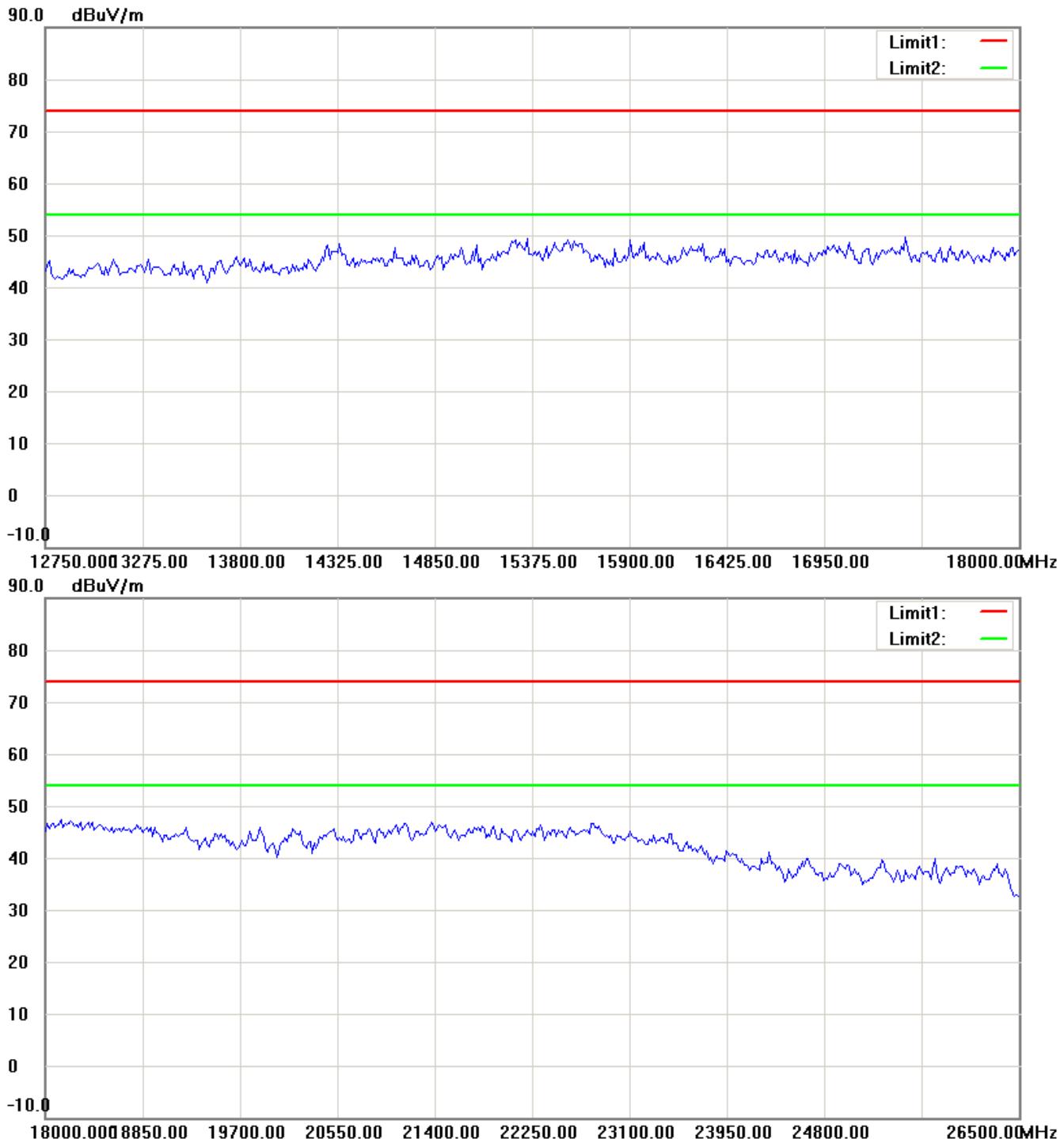
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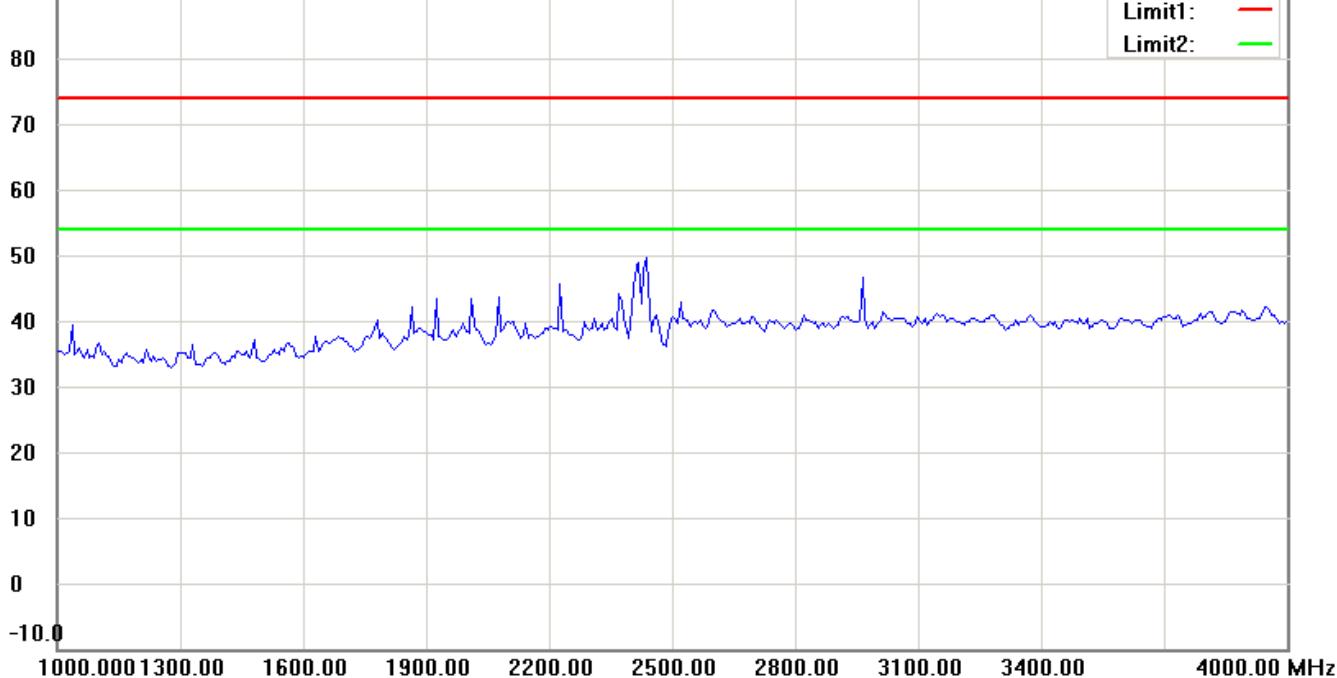
802.11n 40MHz ch1 TX

Antenna Polarization H

80.0 dBuV/m



90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

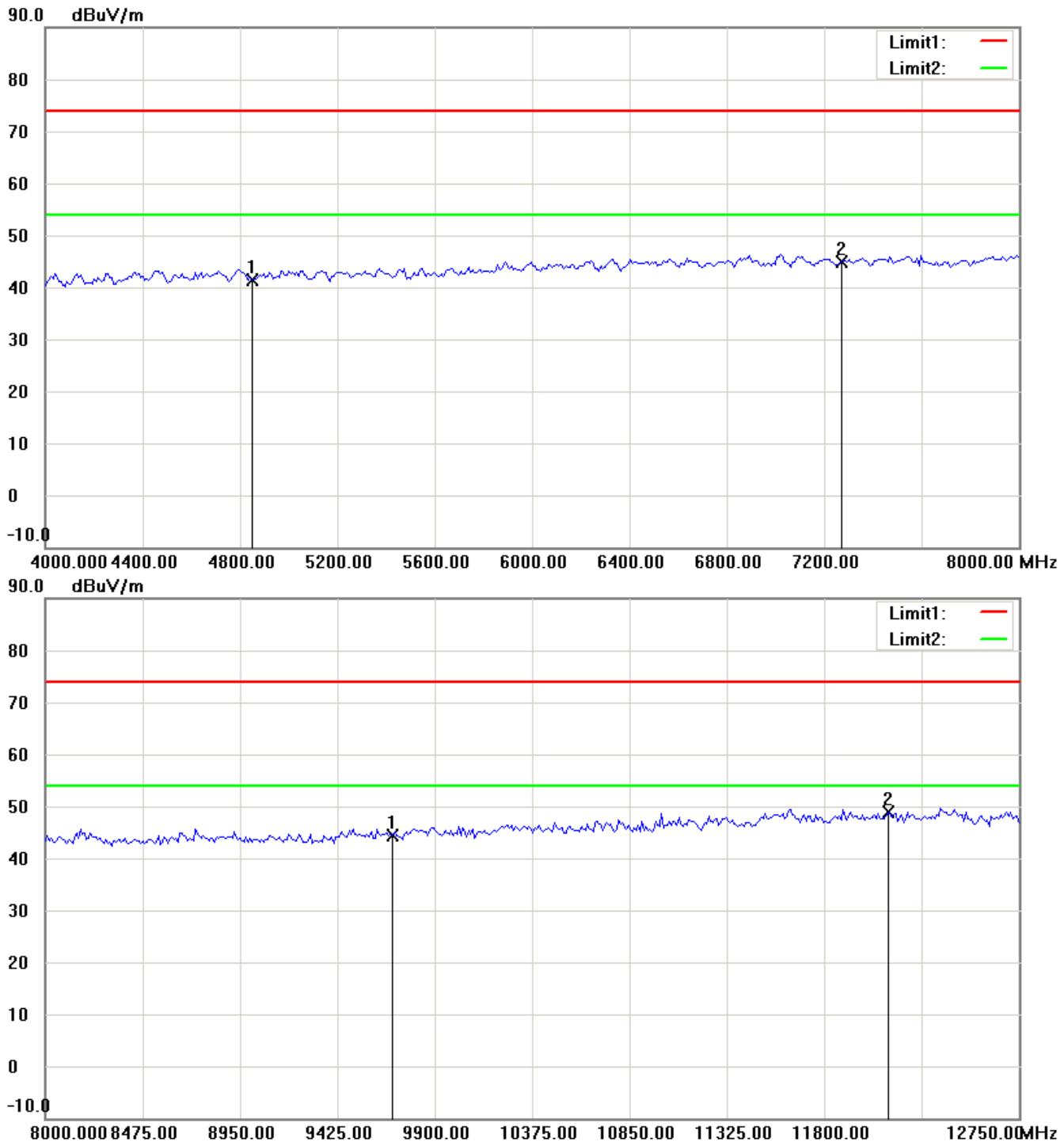
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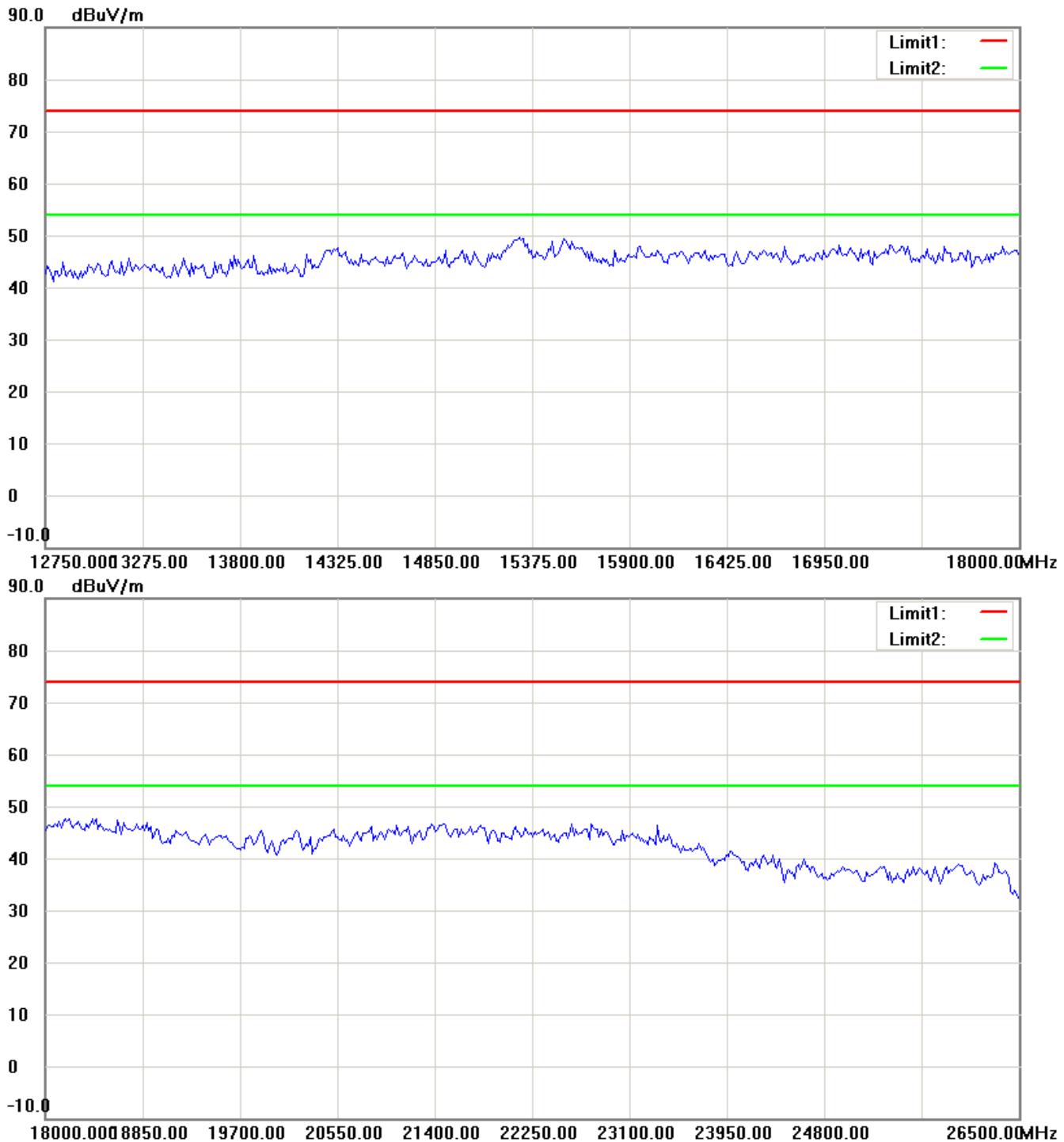
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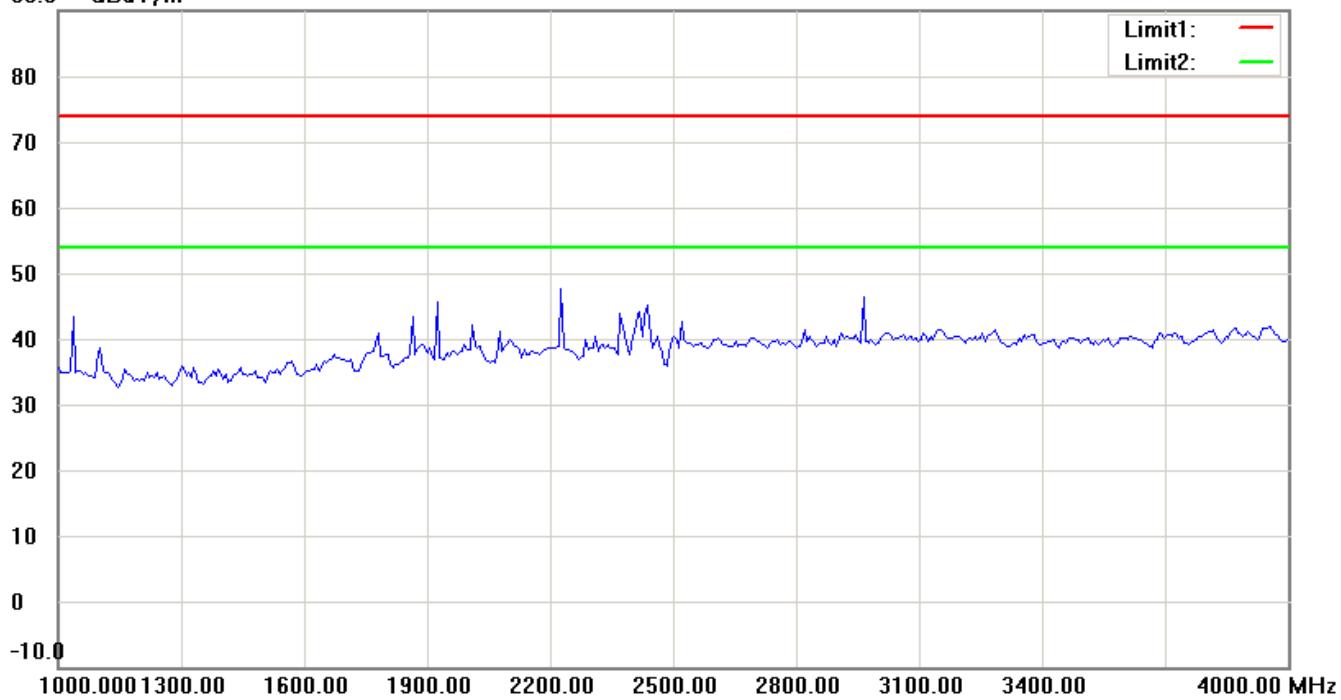
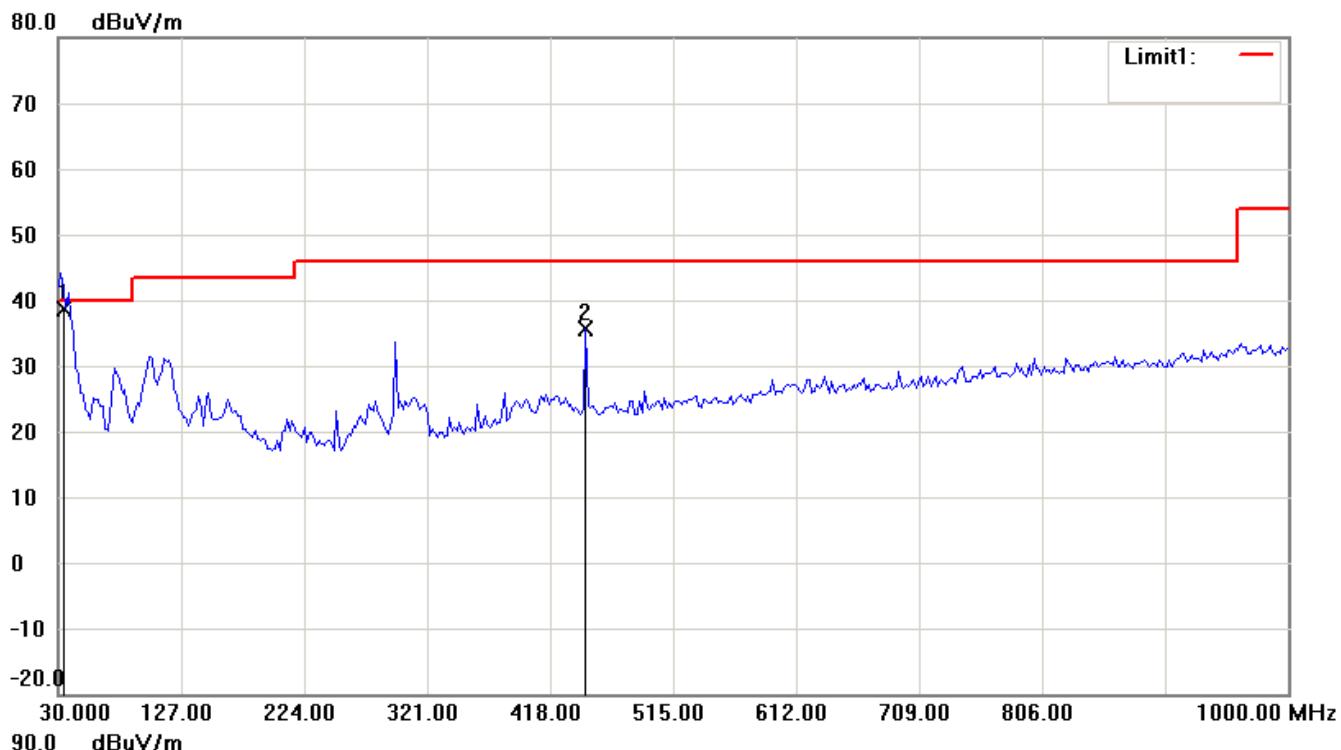


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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

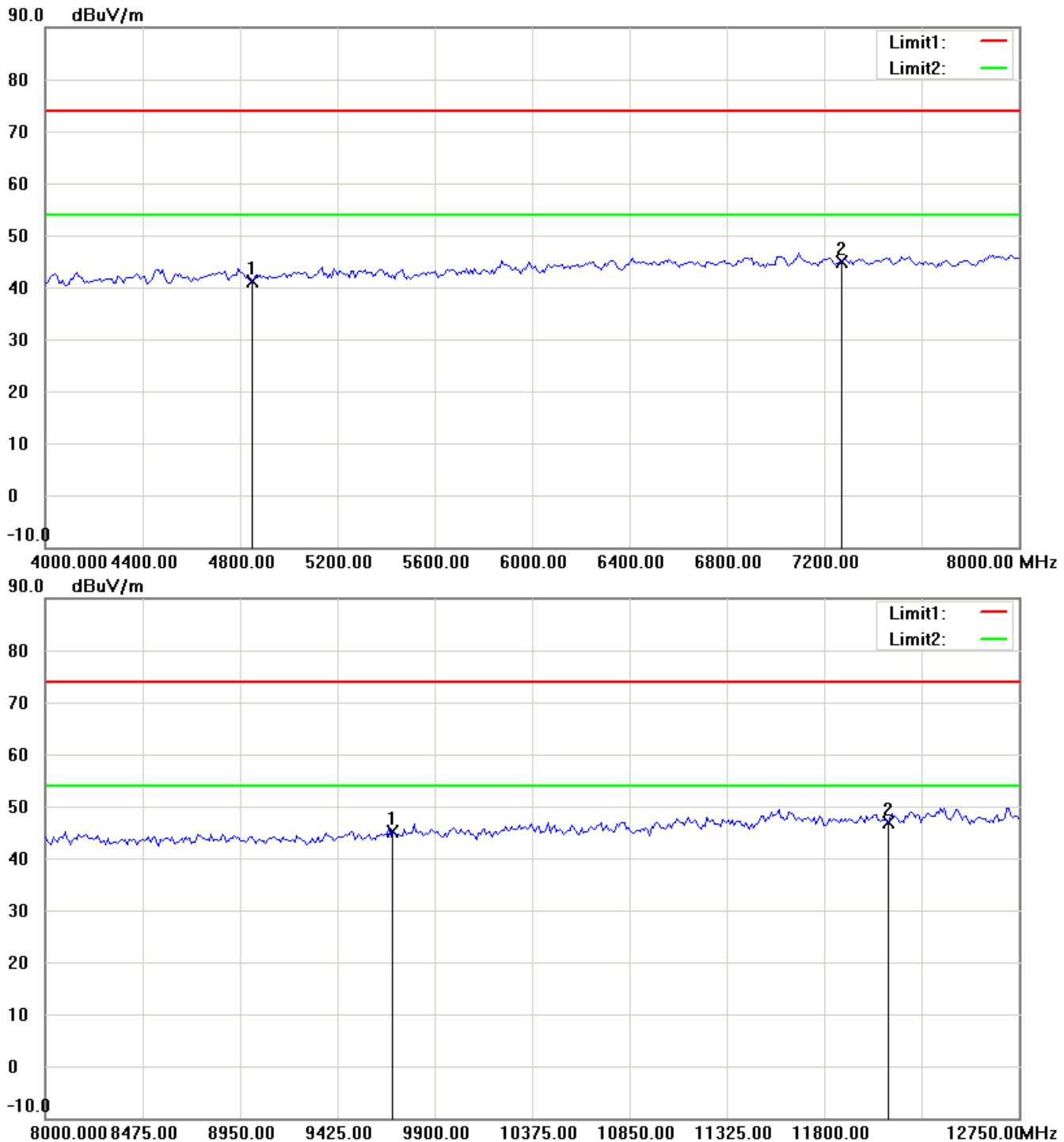
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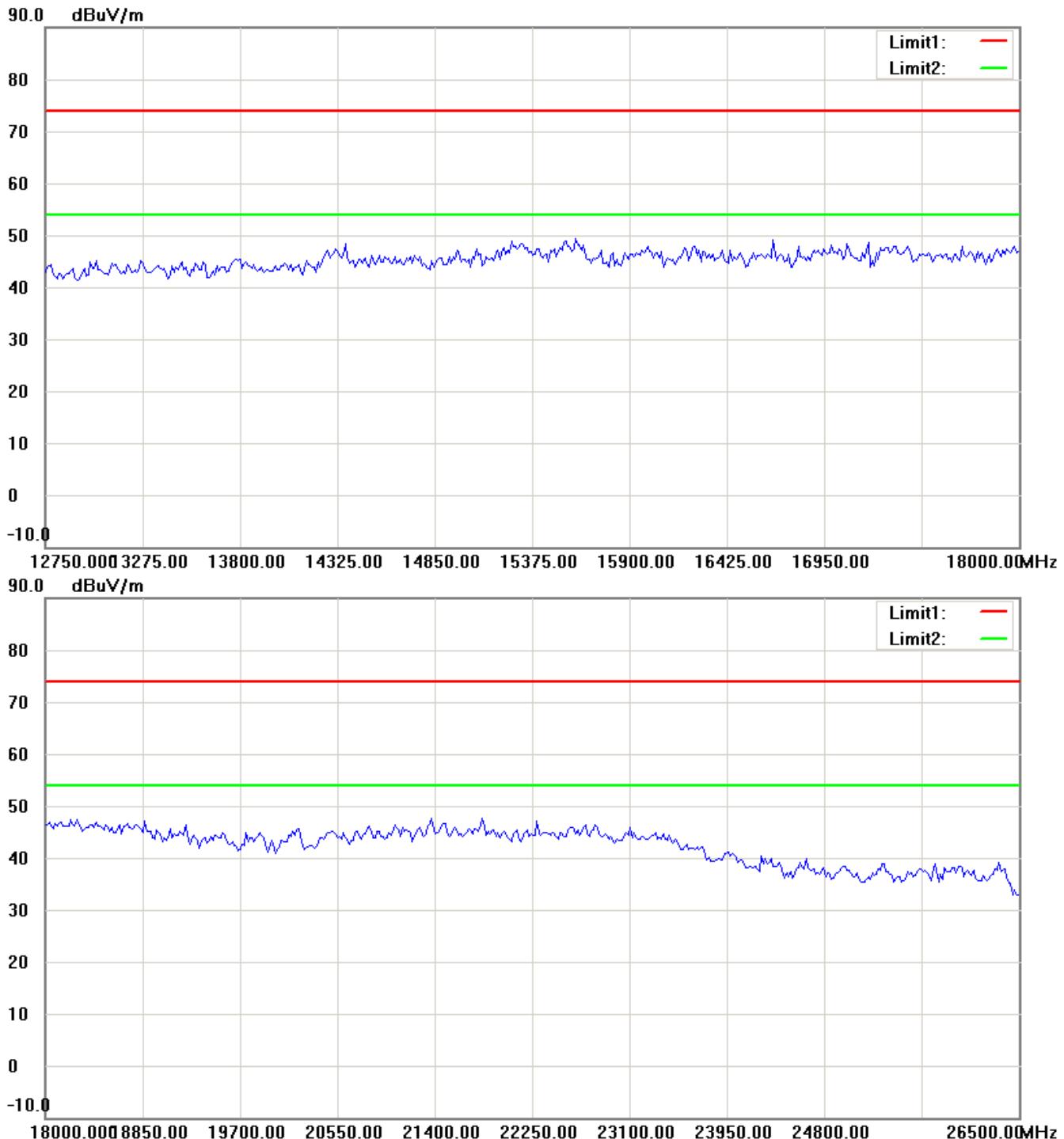
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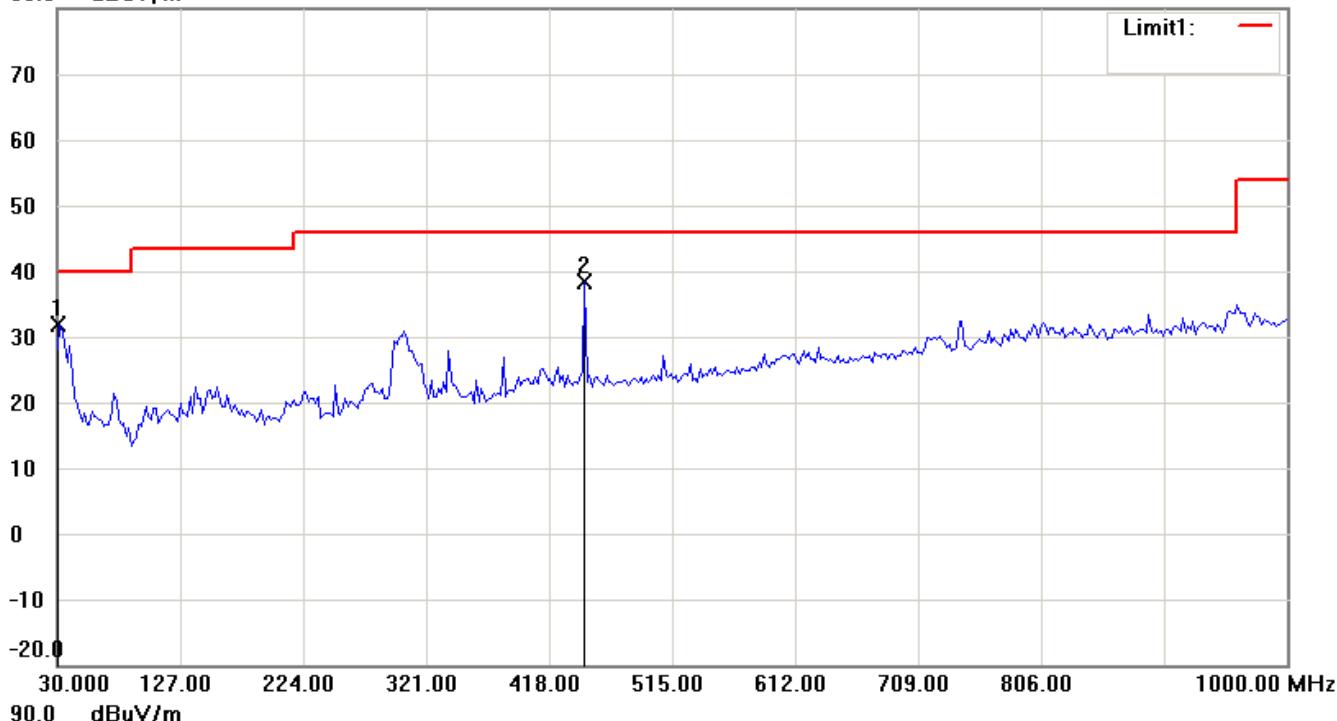
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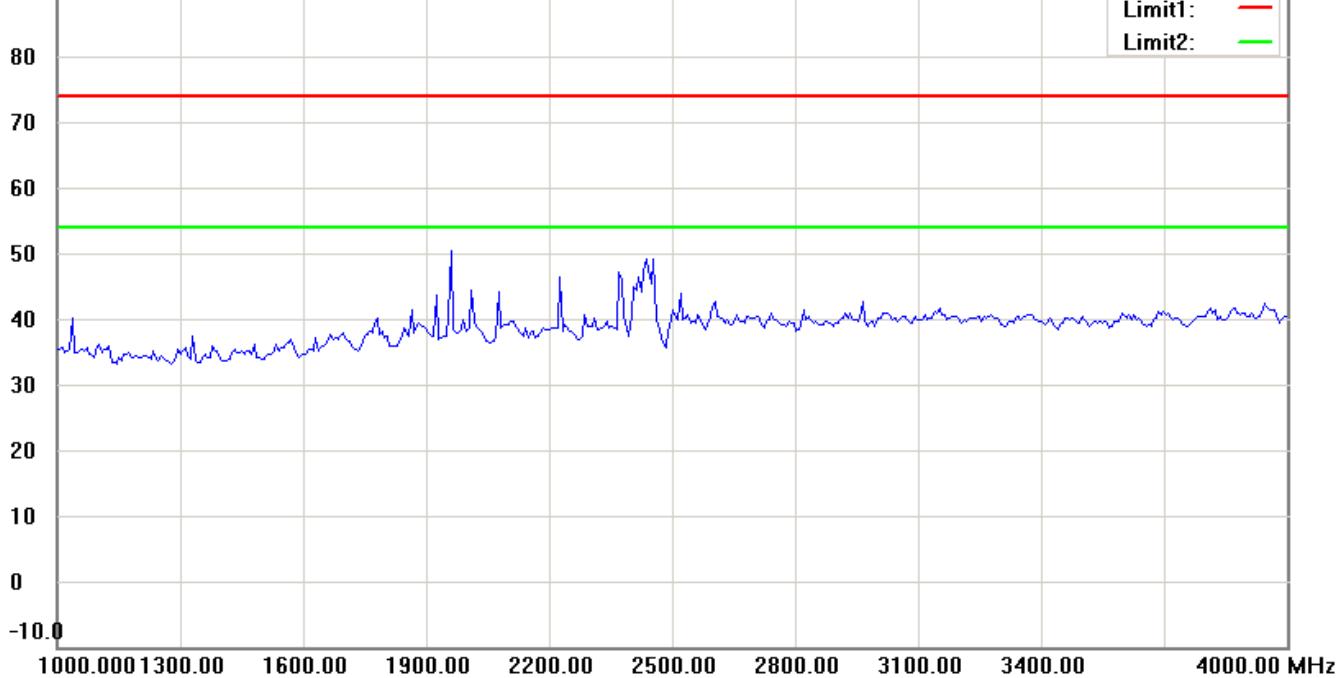
802.11n 40MHz ch4 TX

Antenna Polarization H

80.0 dBuV/m



90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

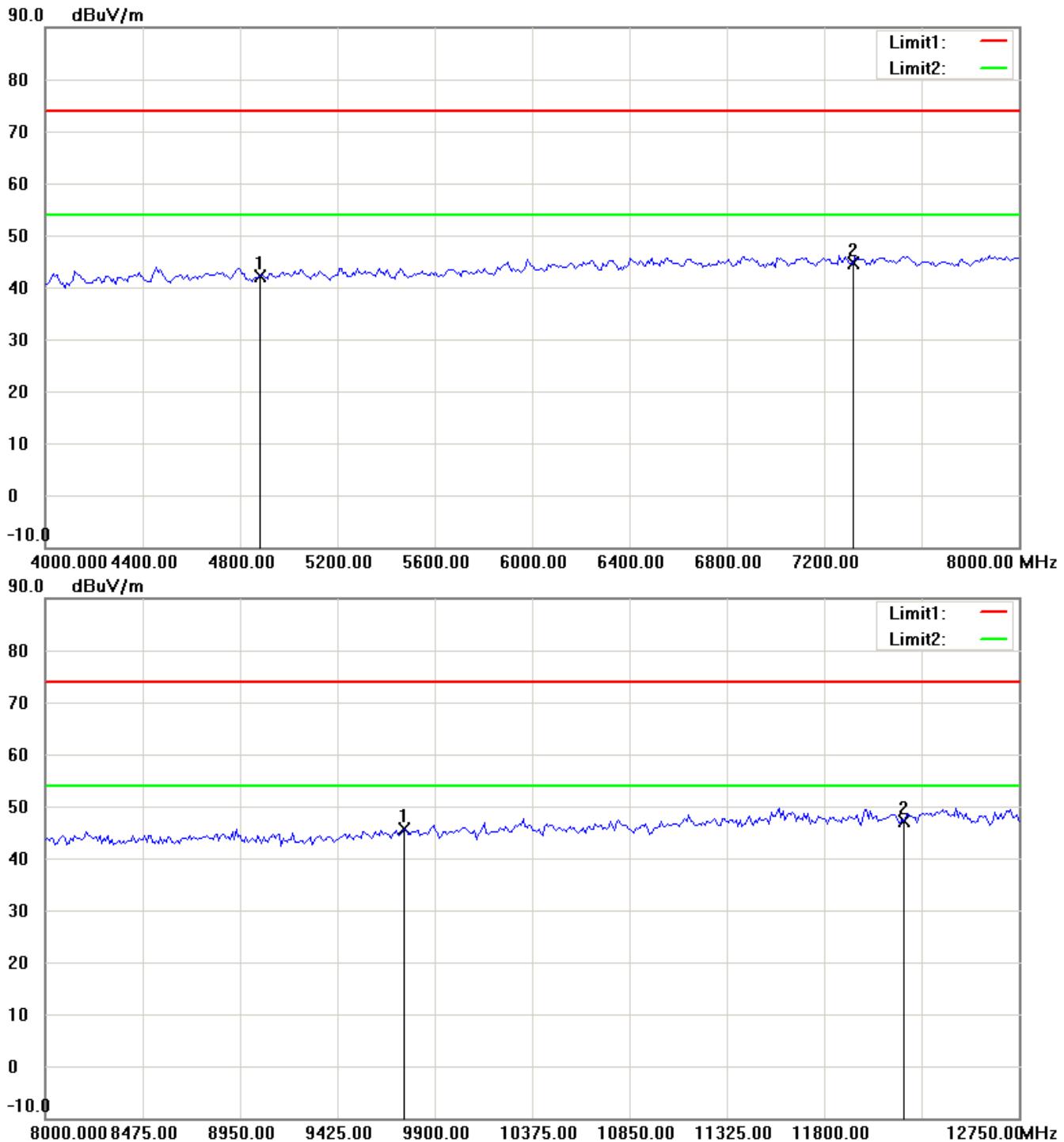
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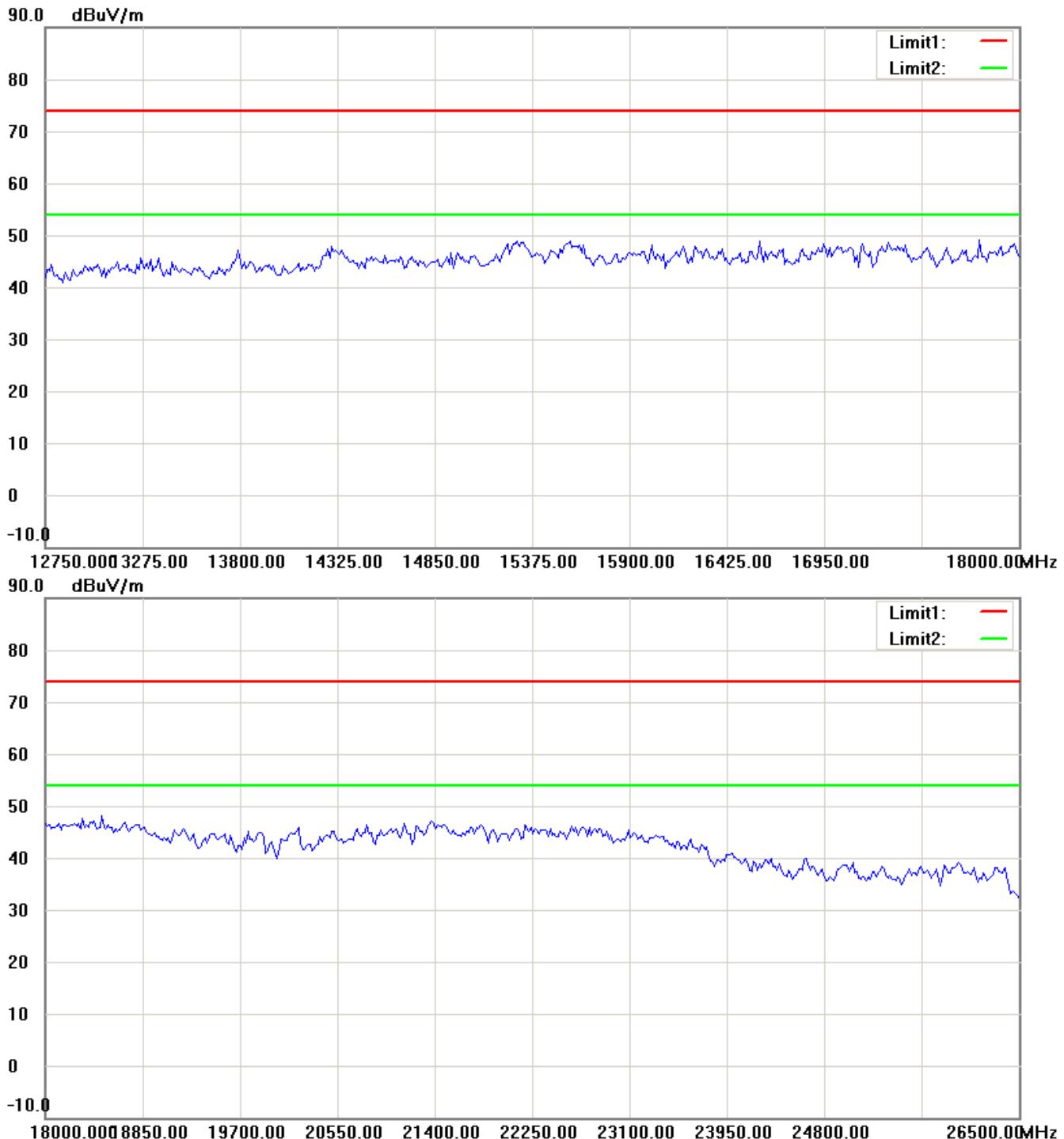
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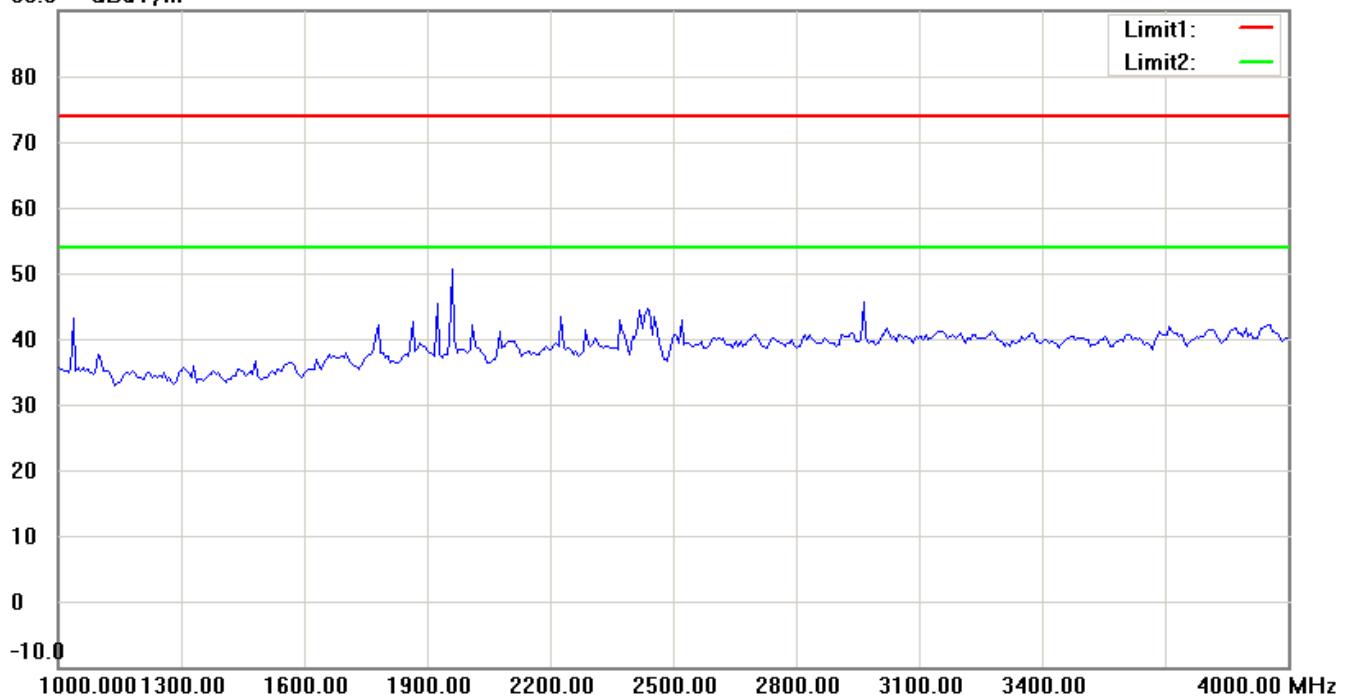
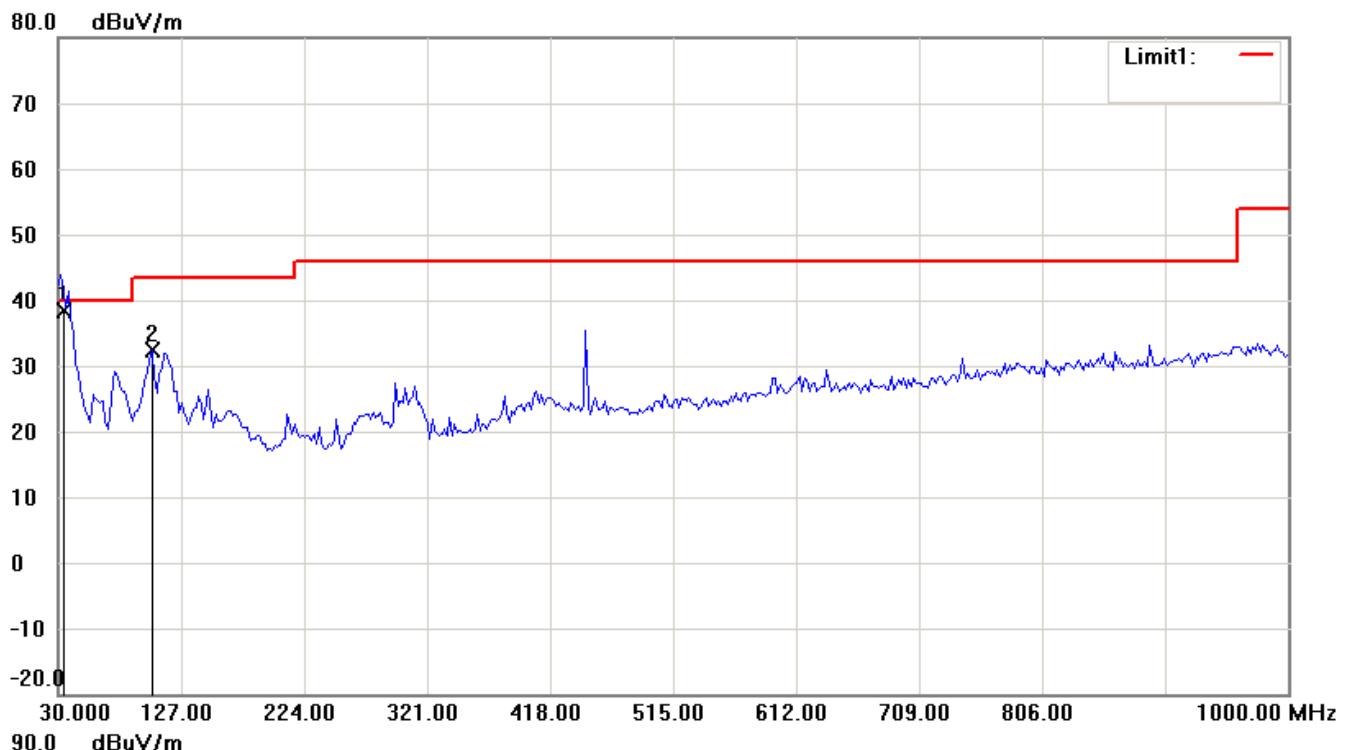


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

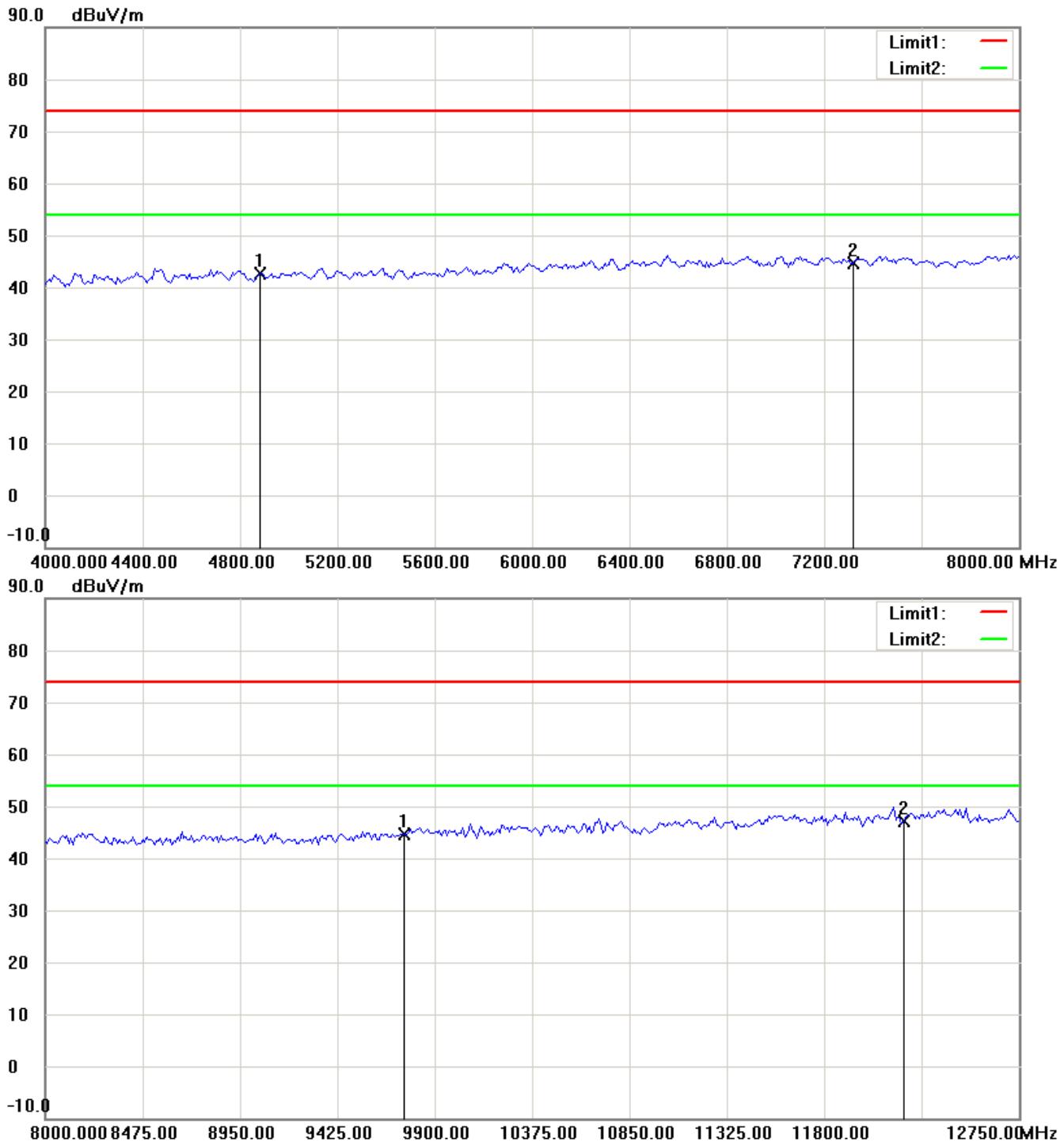
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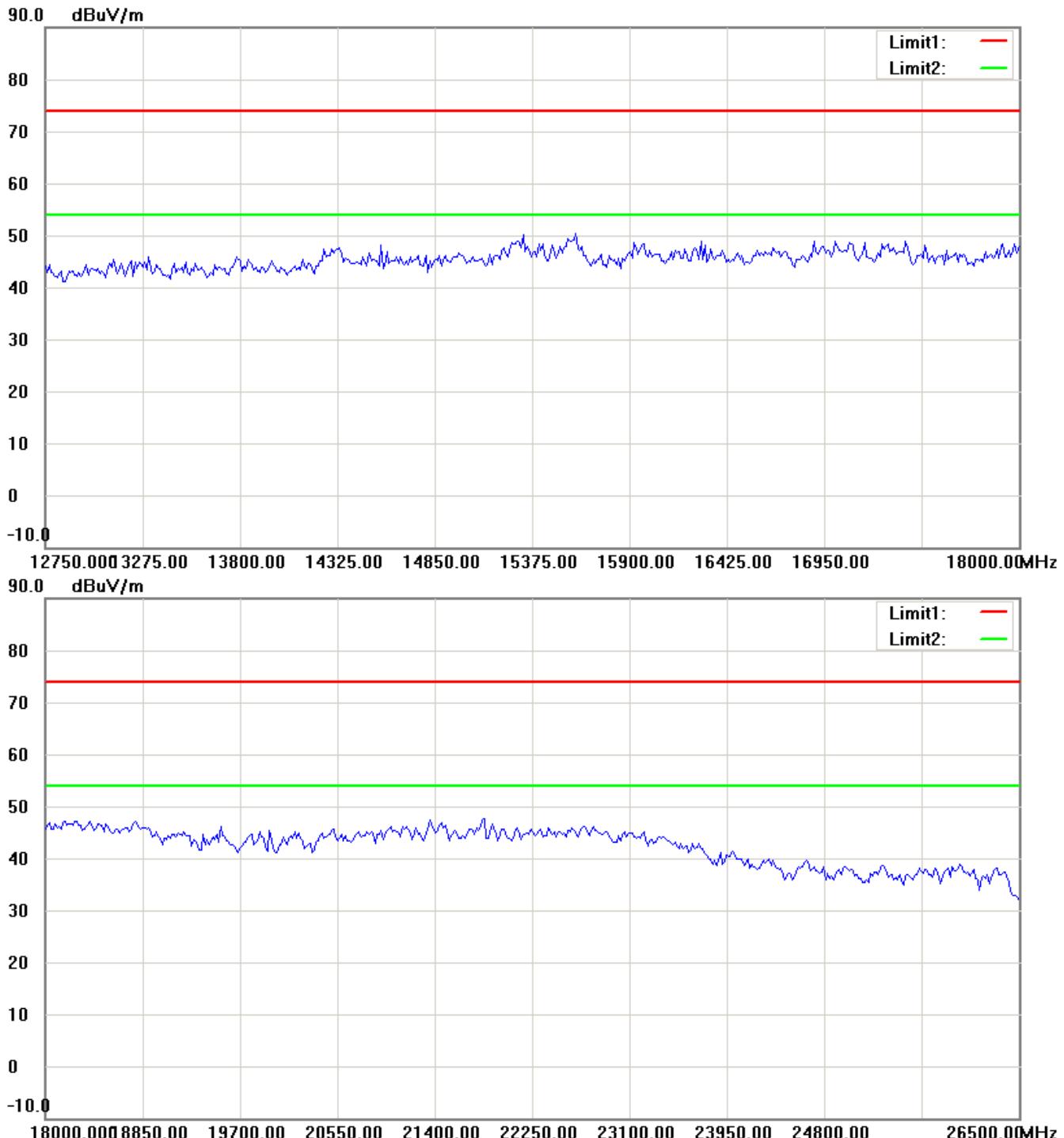
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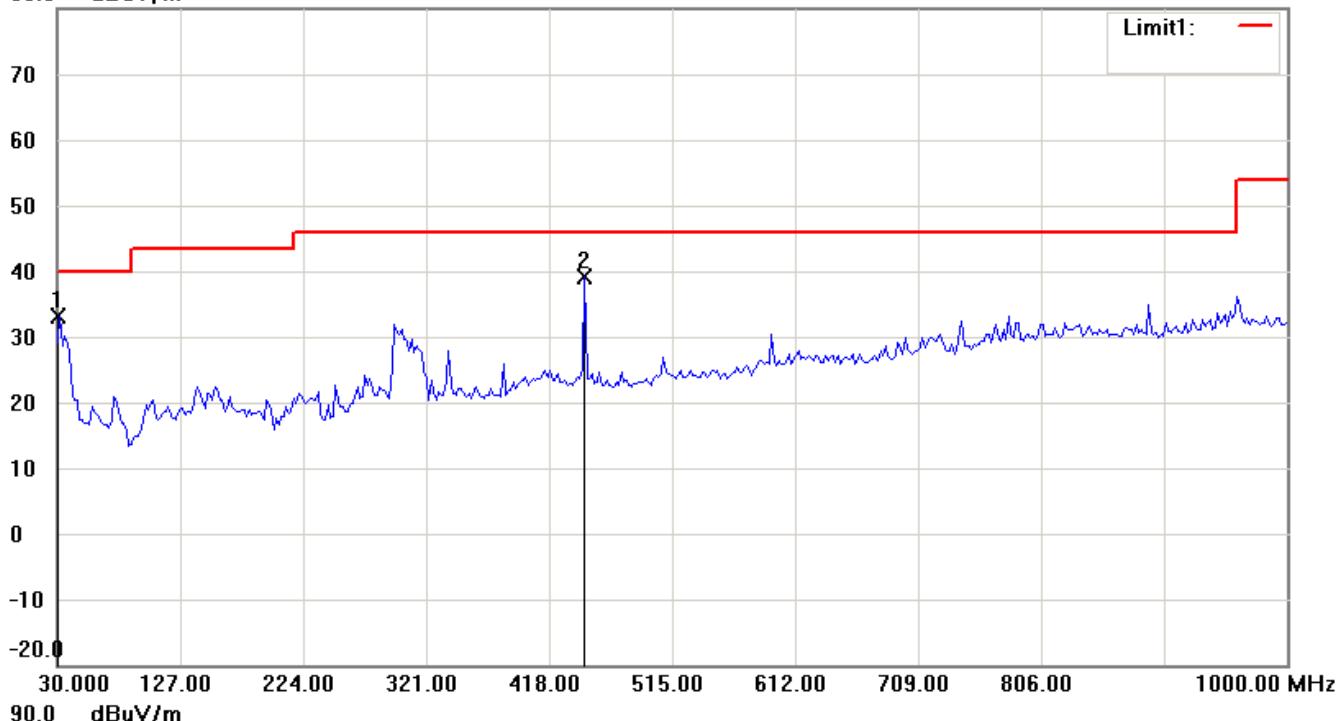
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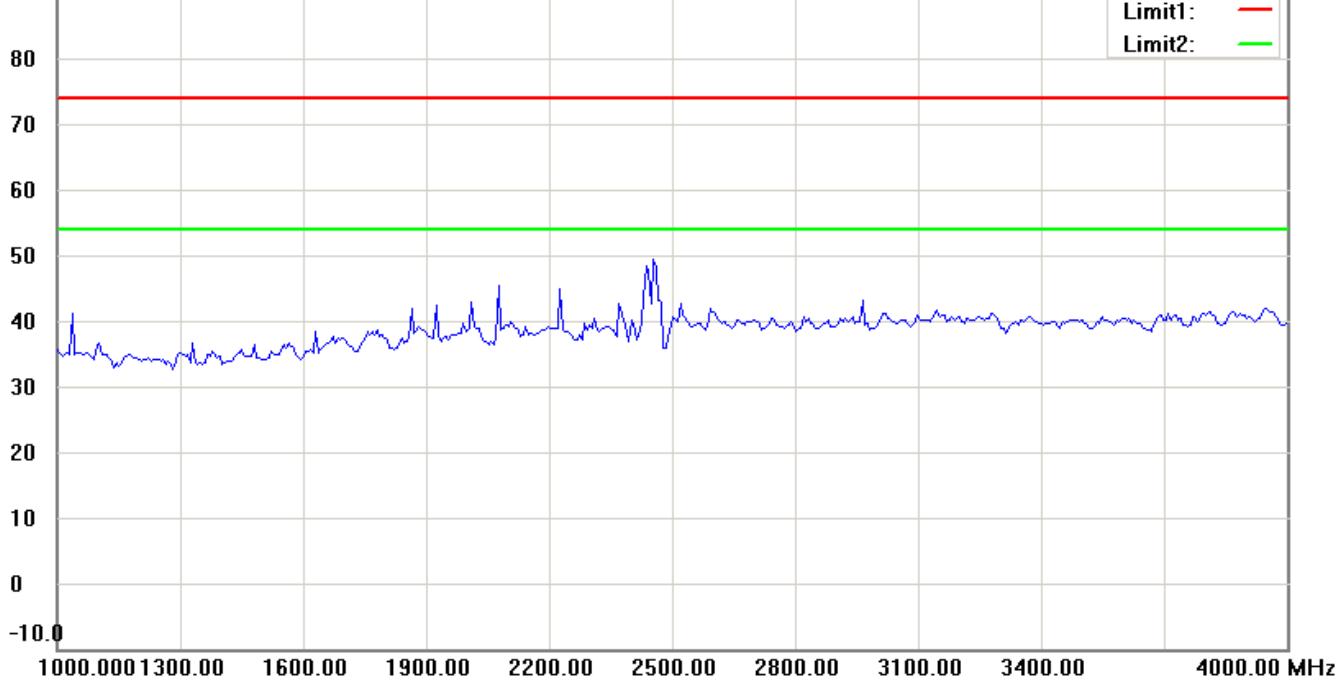
802.11n 40MHz ch7 TX

Antenna Polarization H

80.0 dBuV/m



90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

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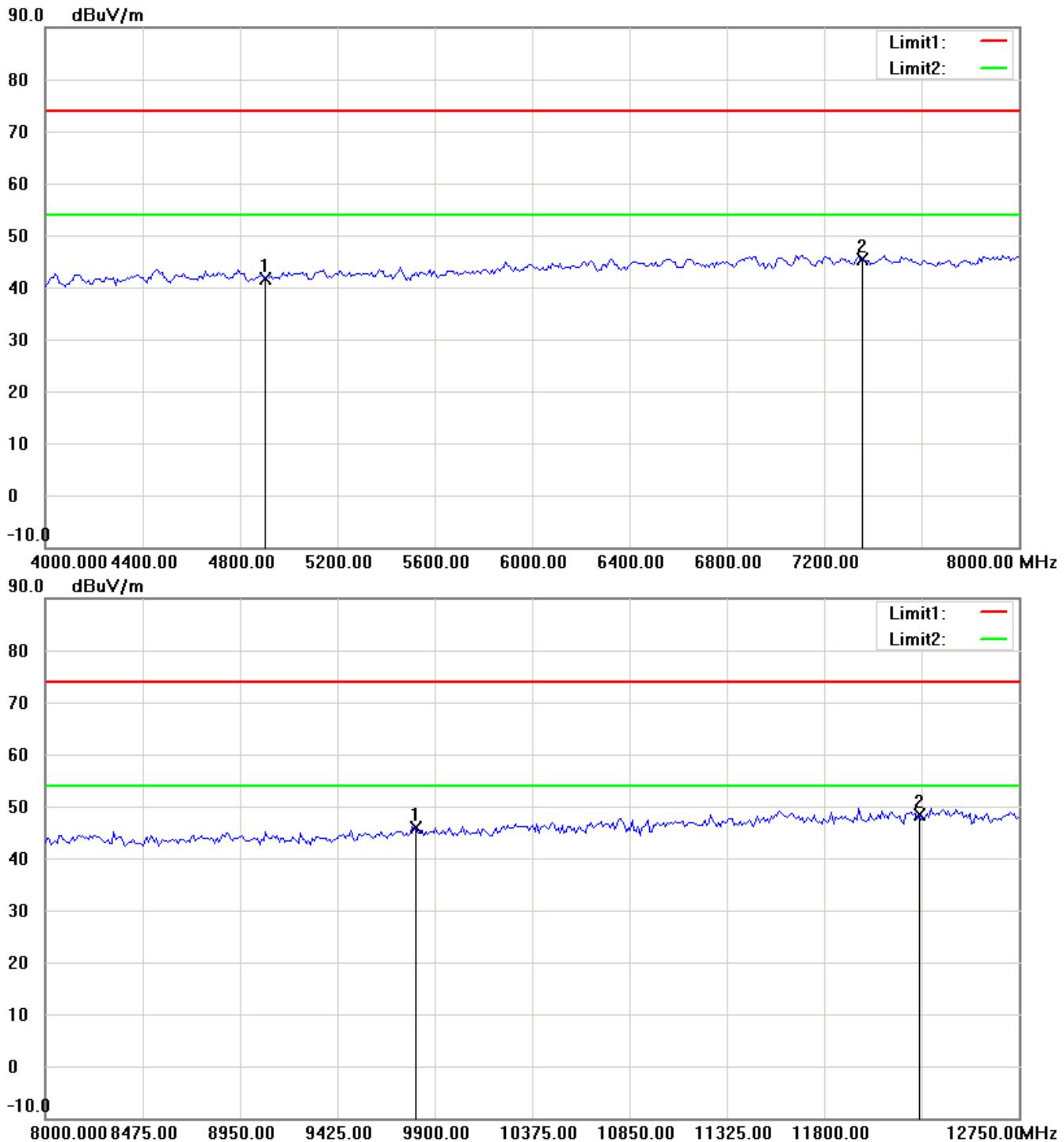
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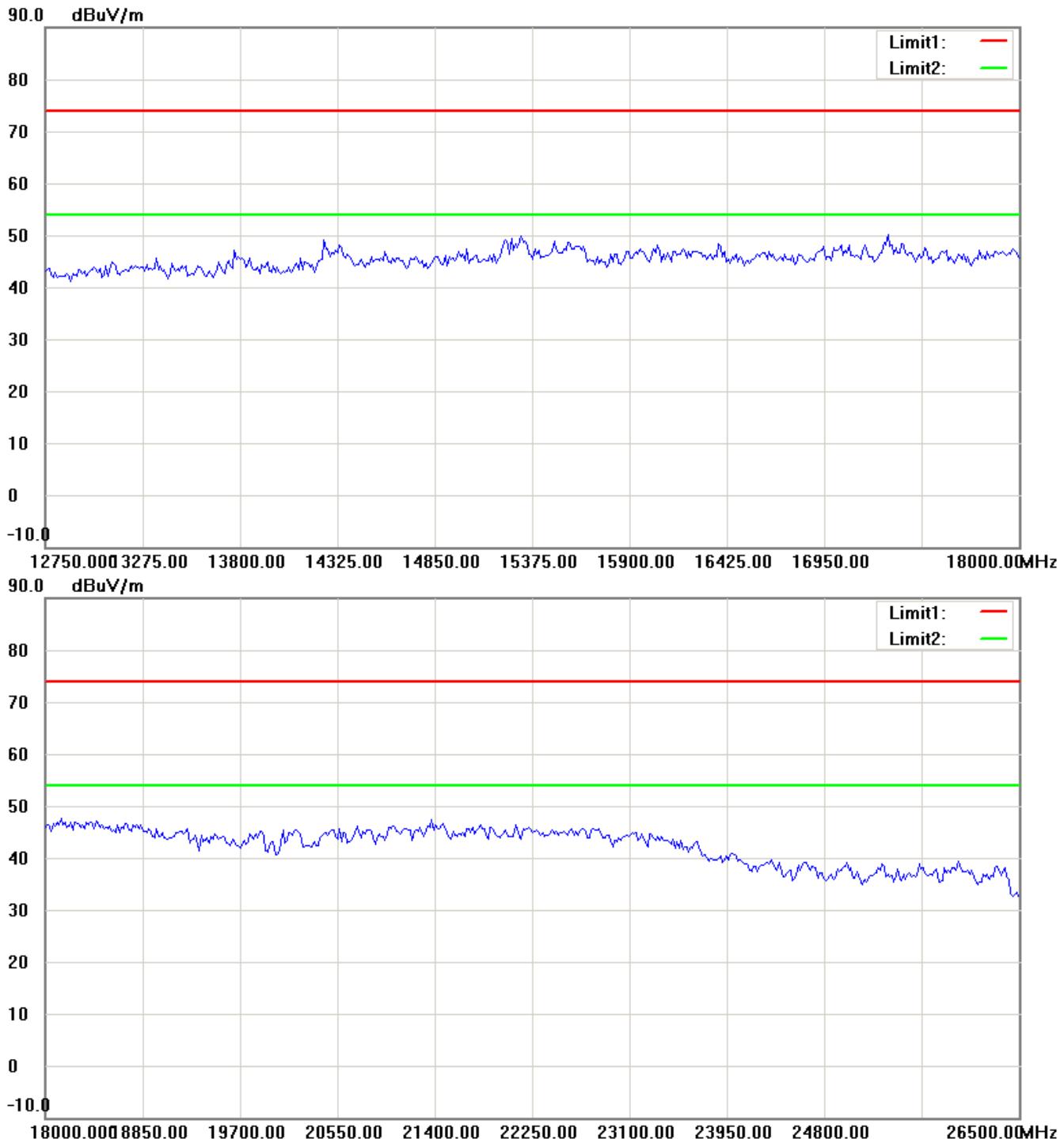
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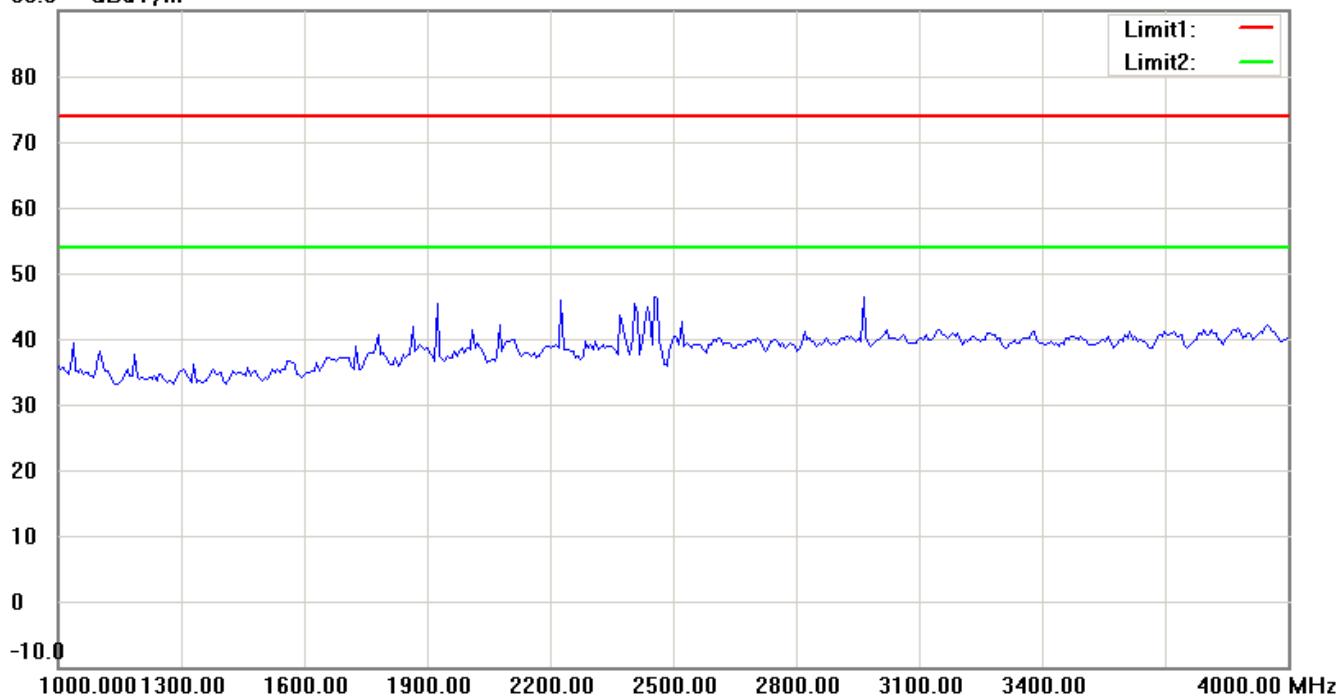
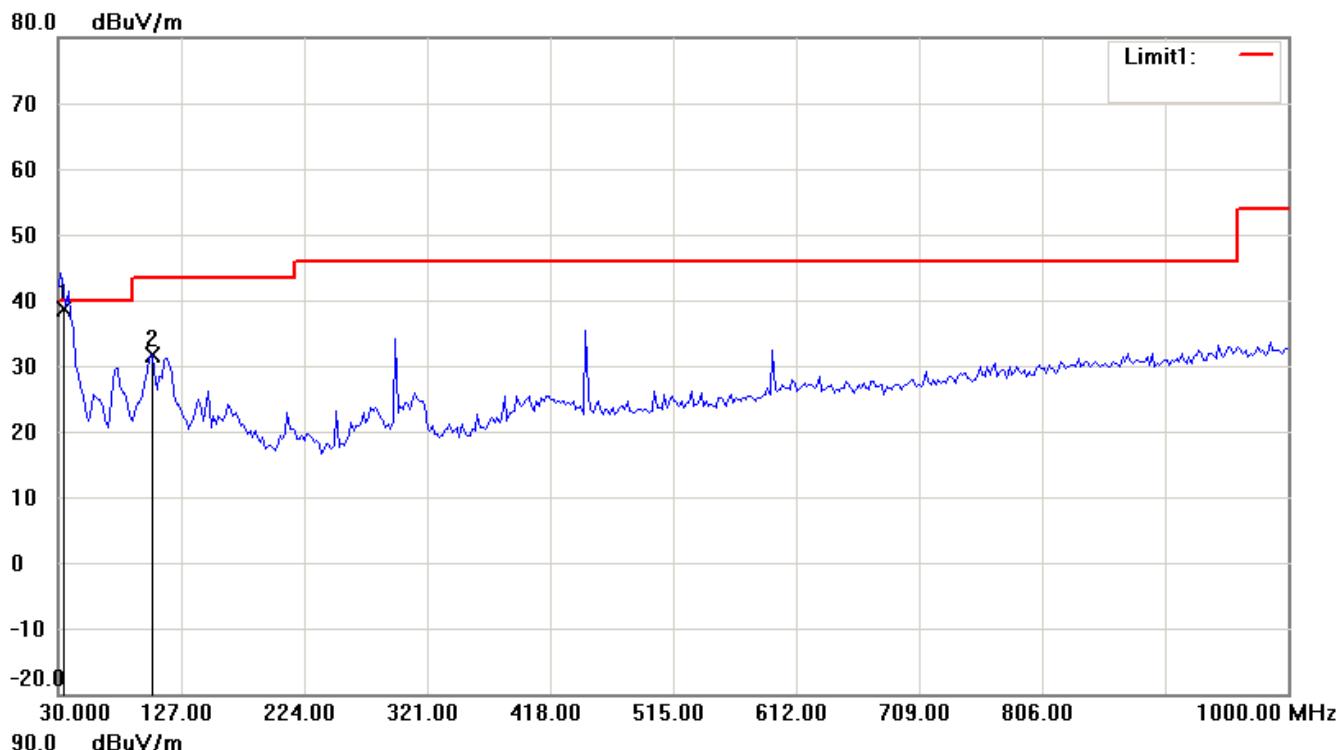
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

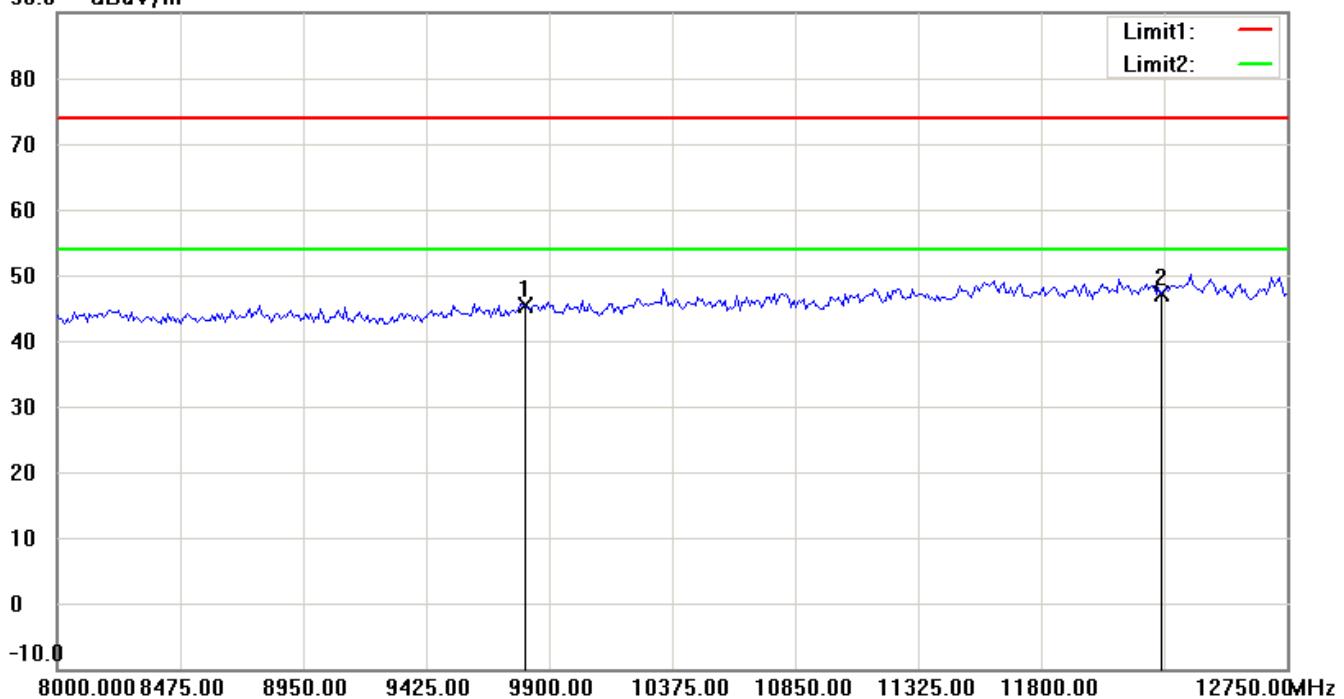
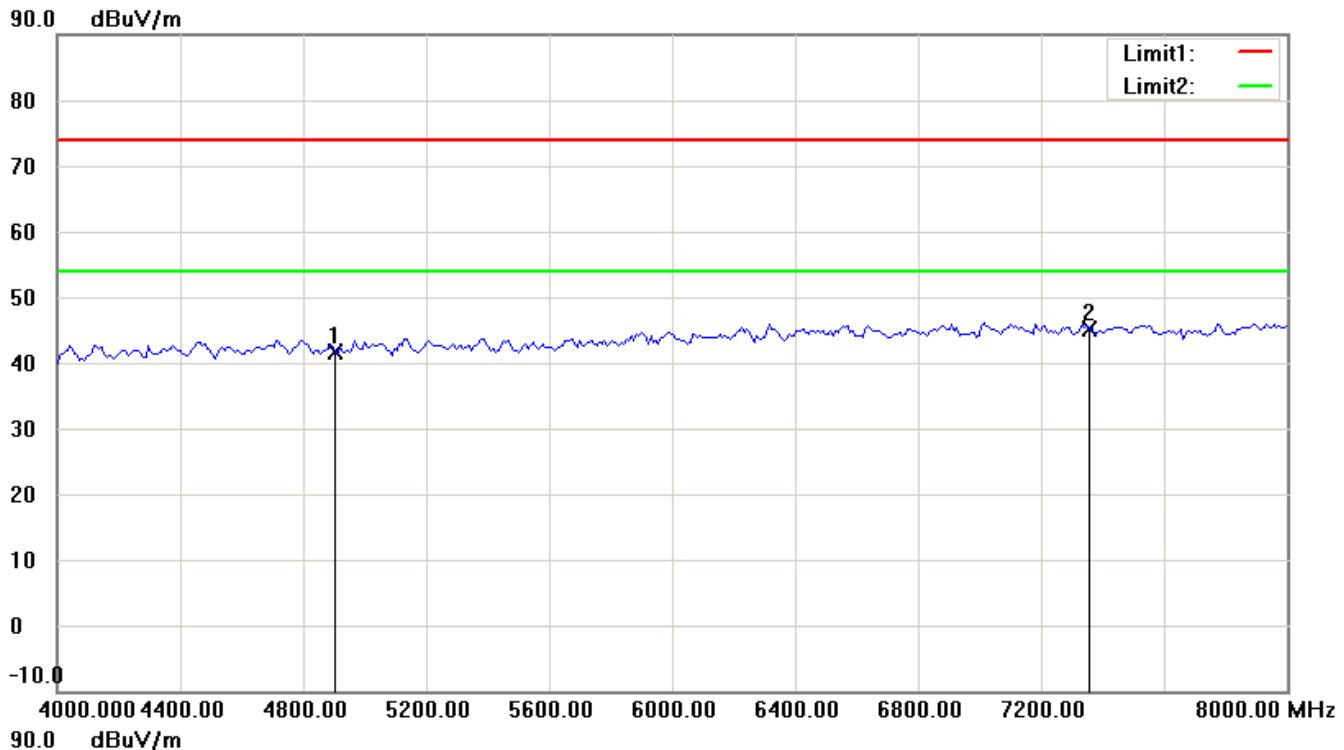
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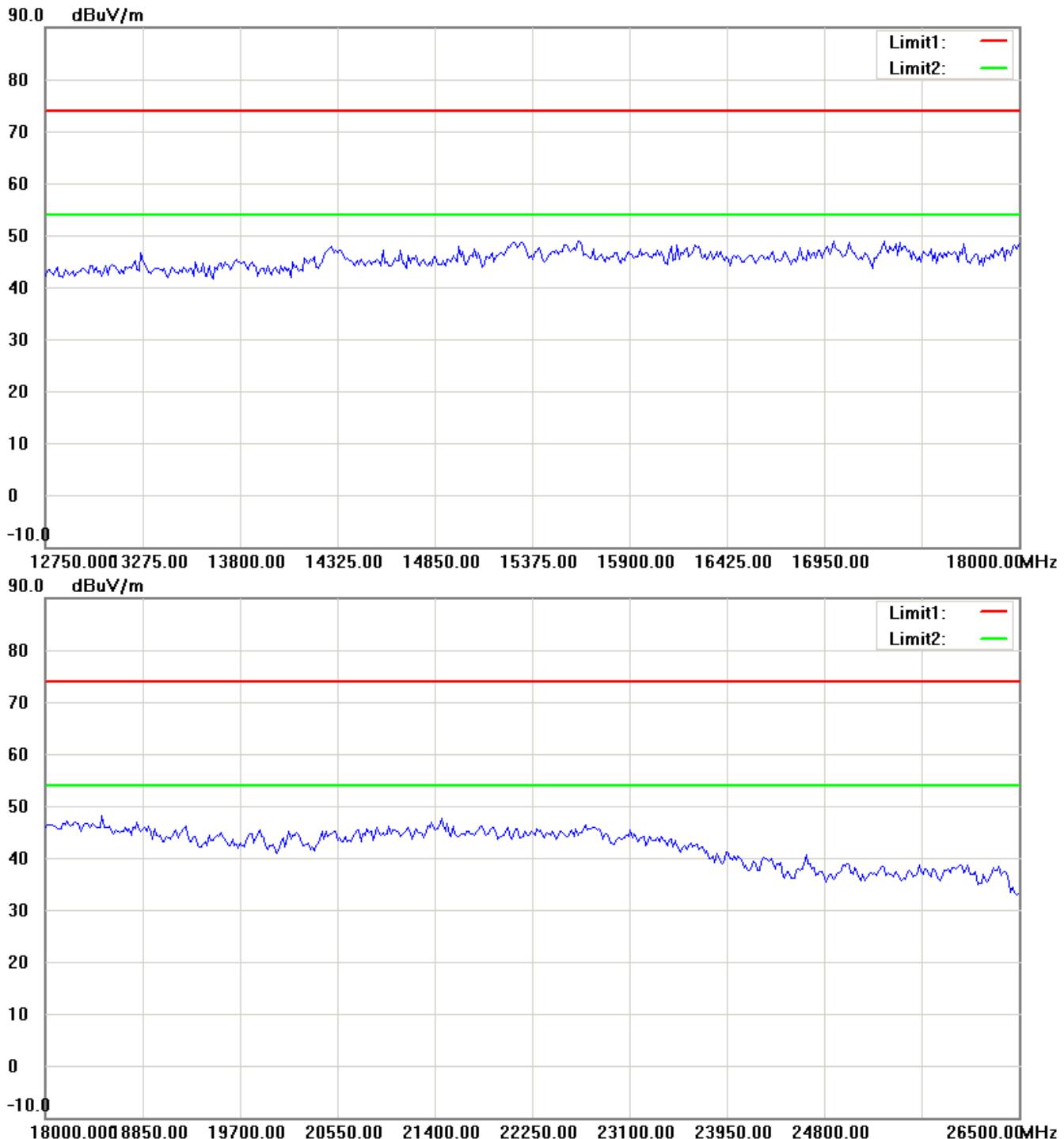
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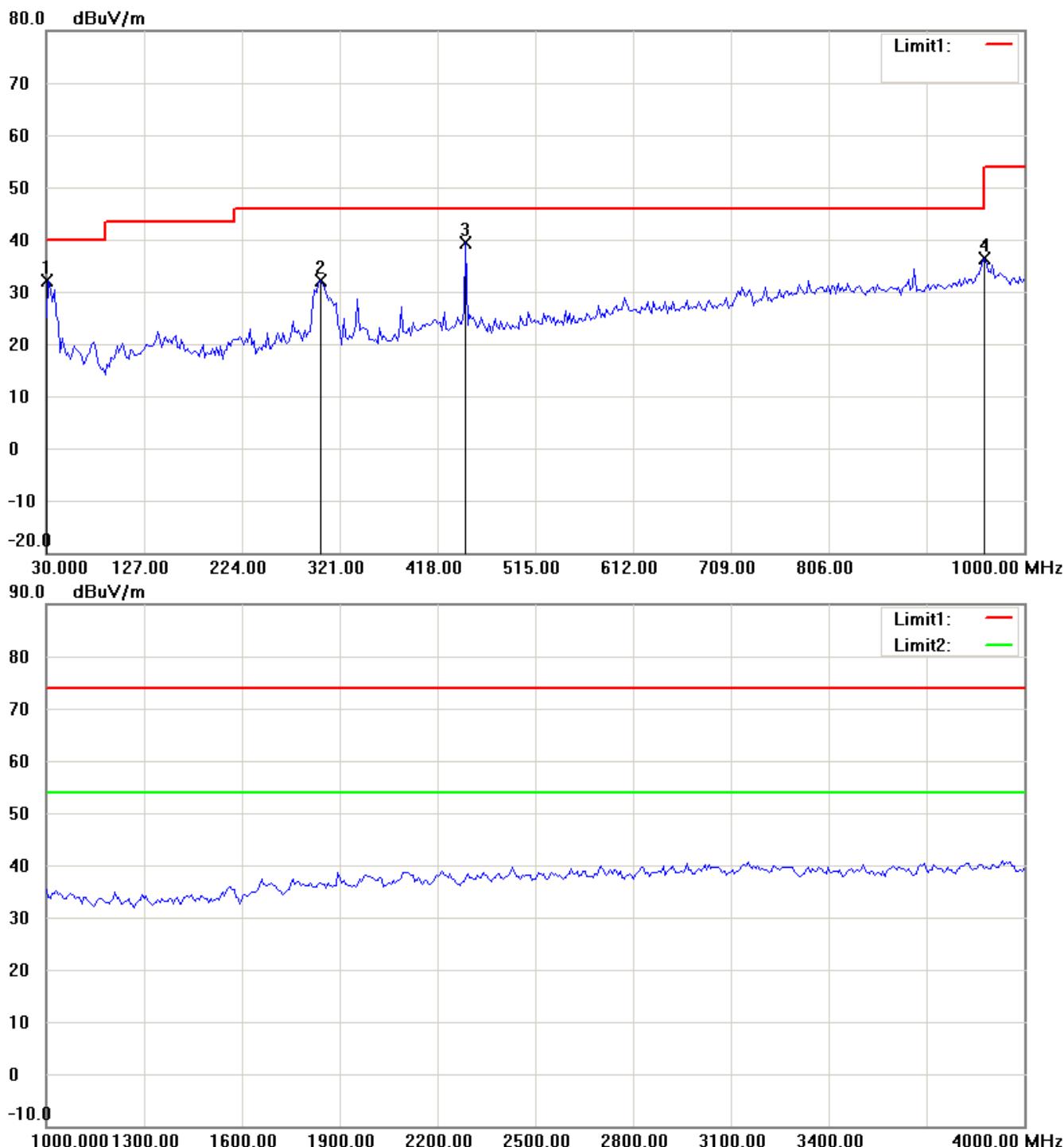
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

WLAN 5.745 ~ 5.825 GHz  
802.11n 20MHz ch149 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

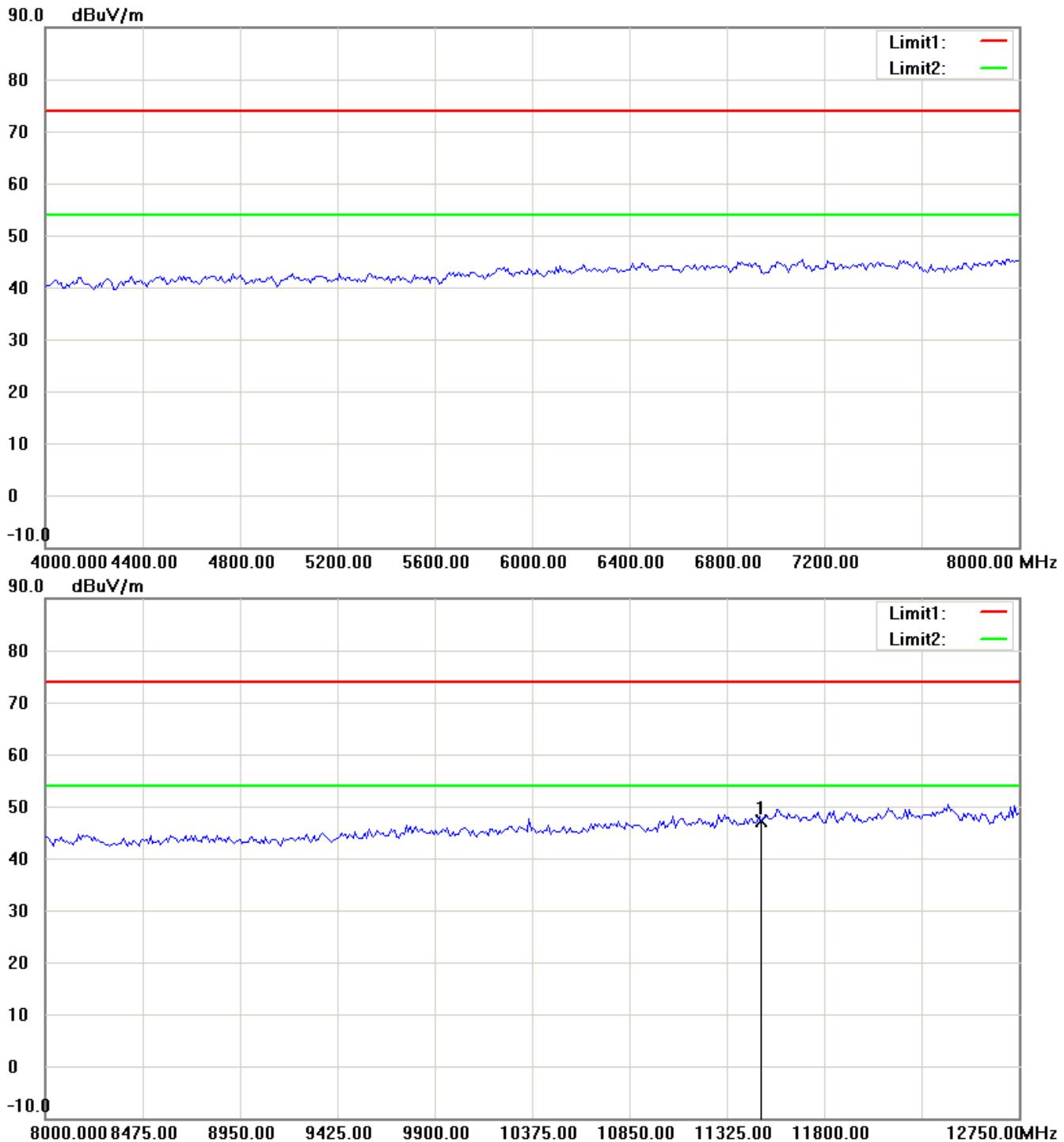
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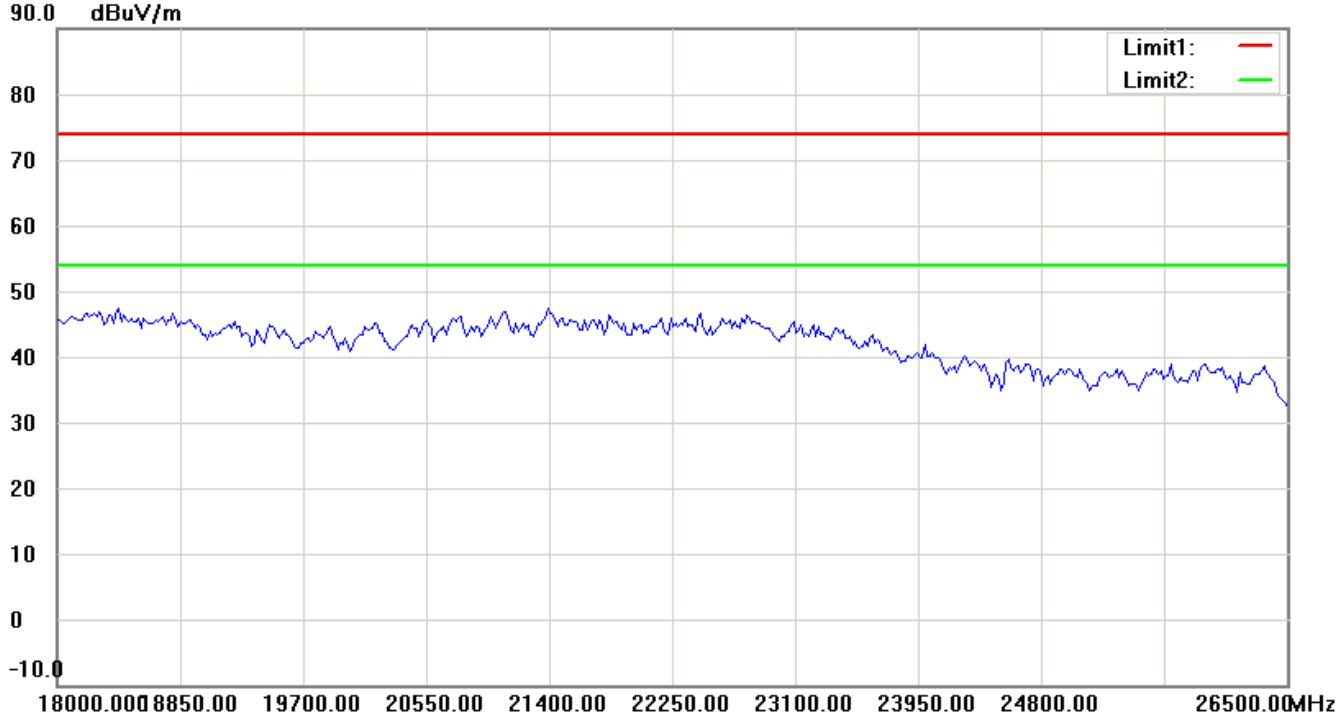
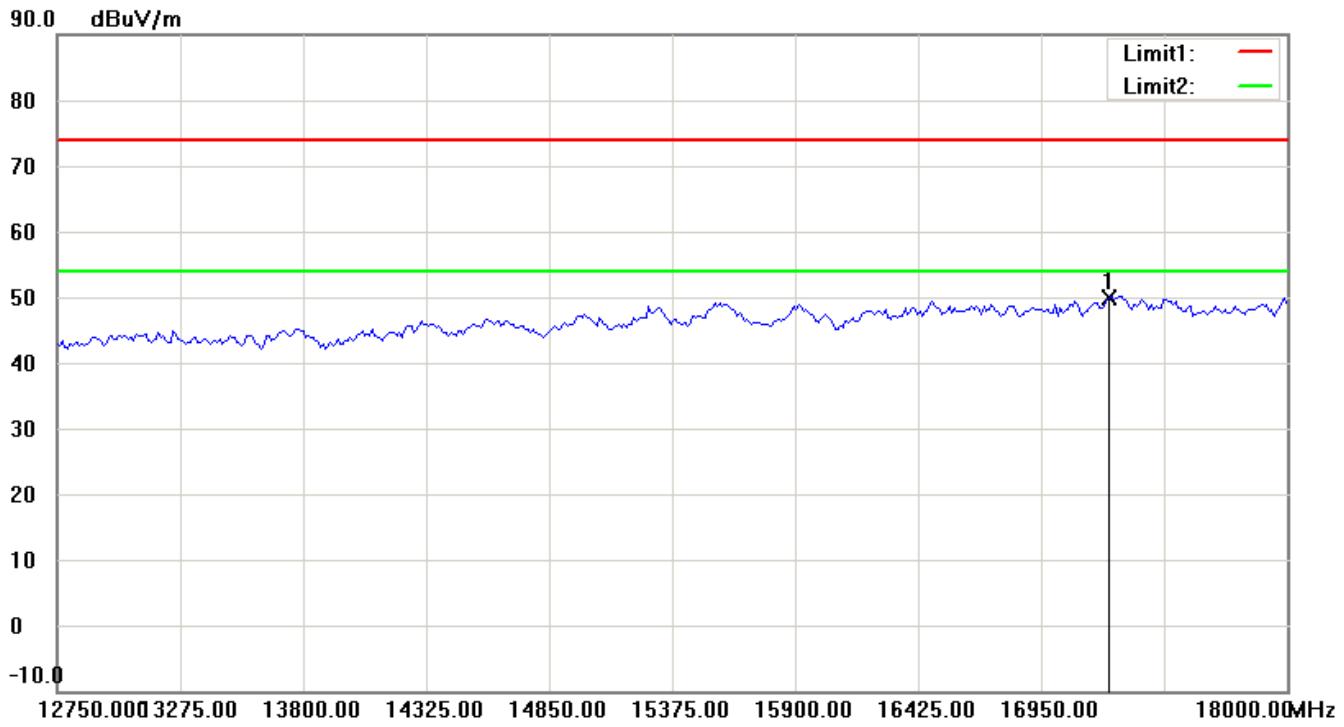
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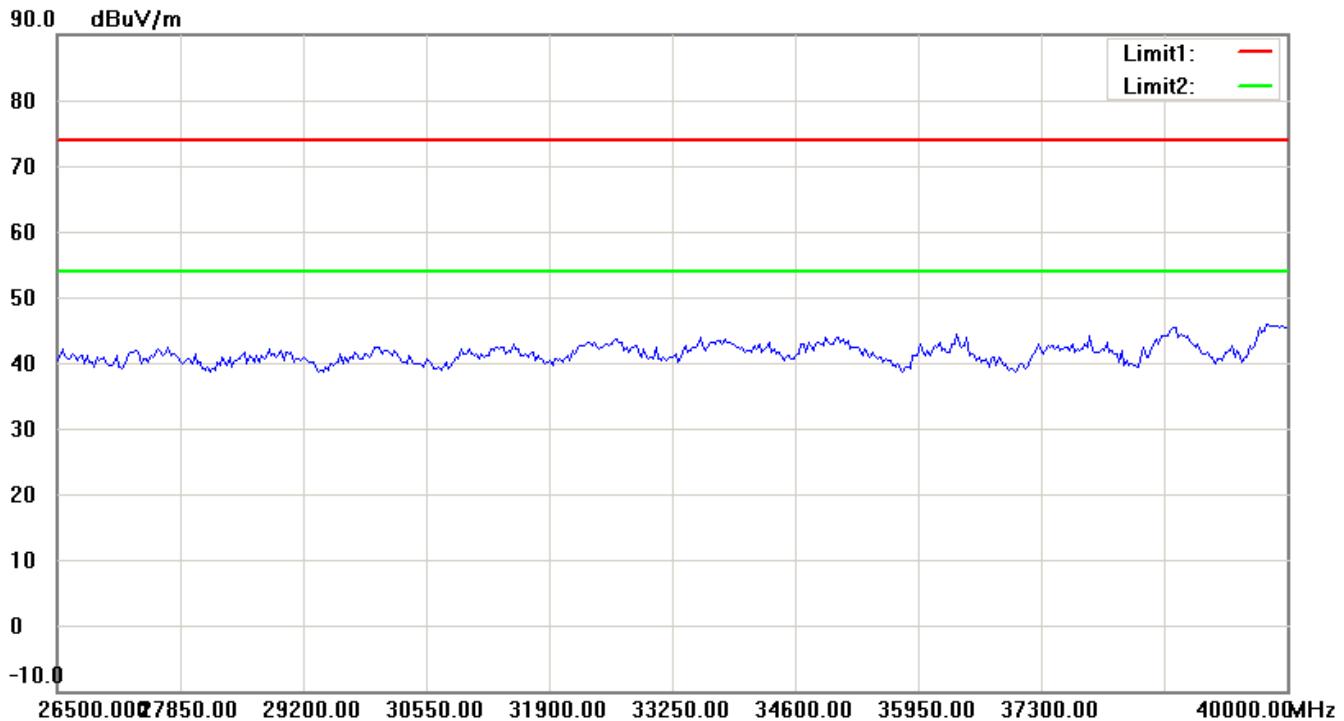
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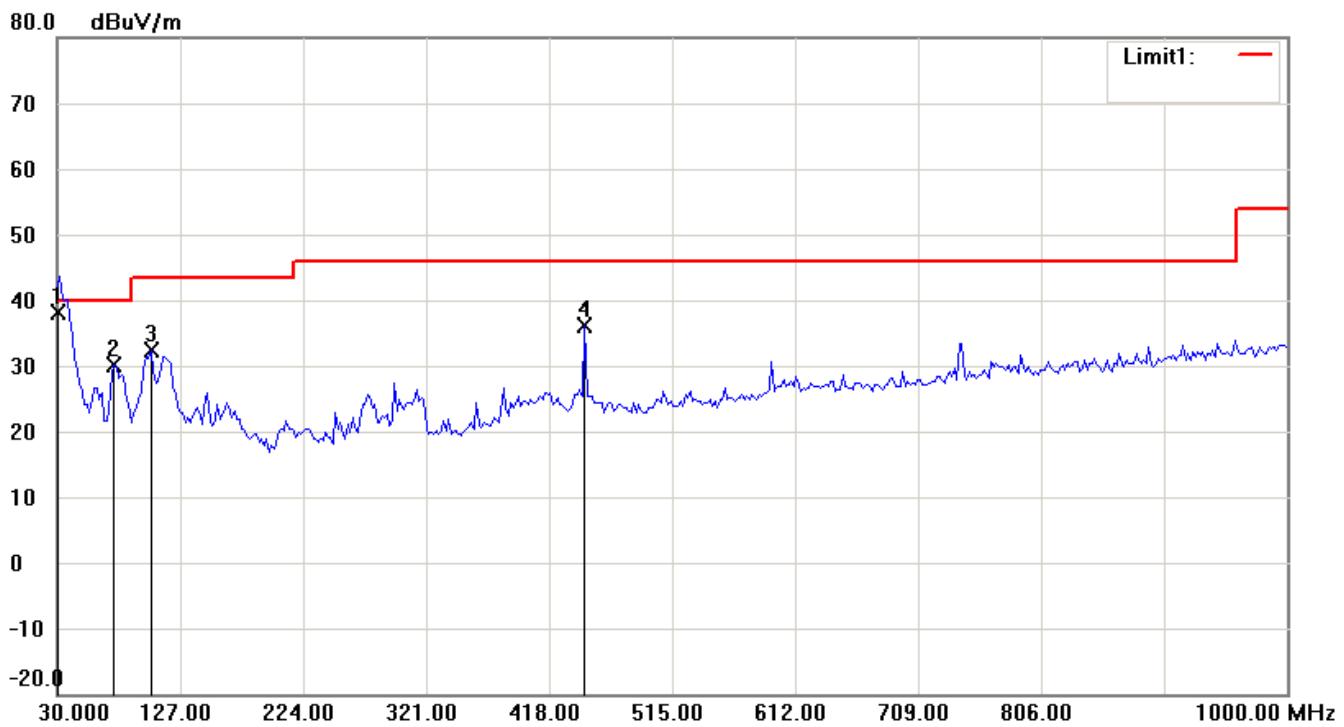
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

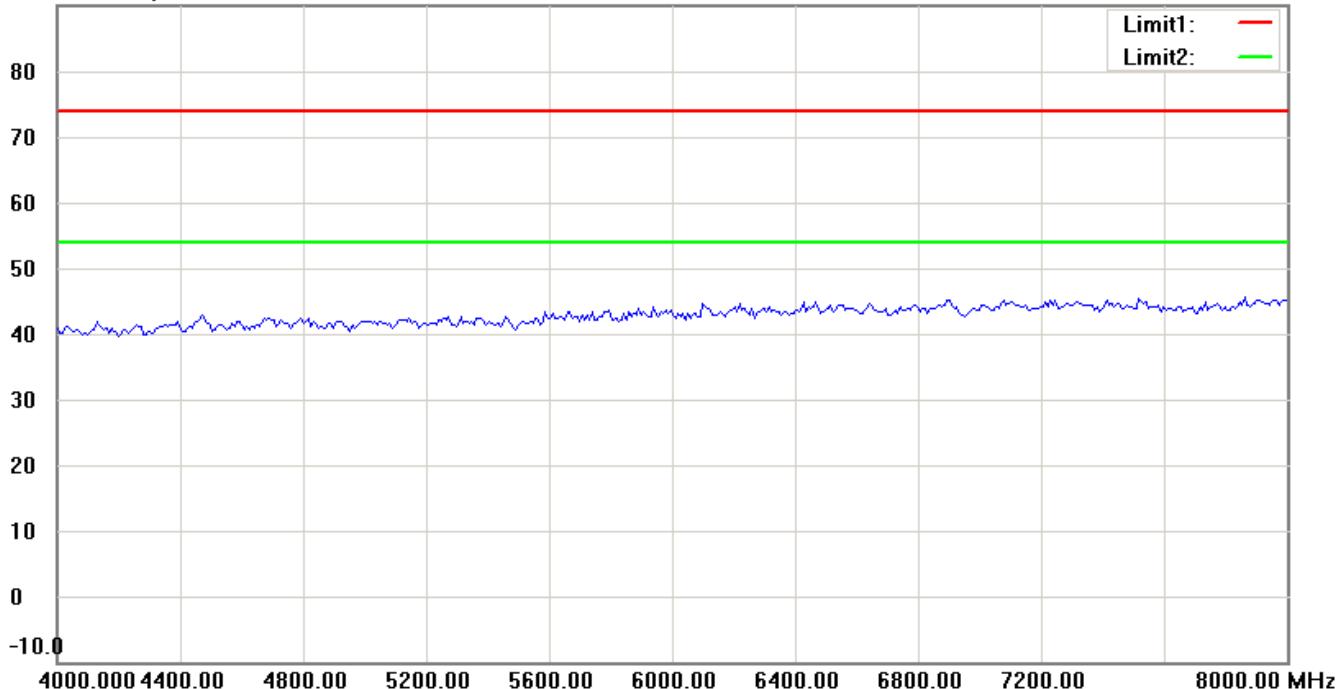
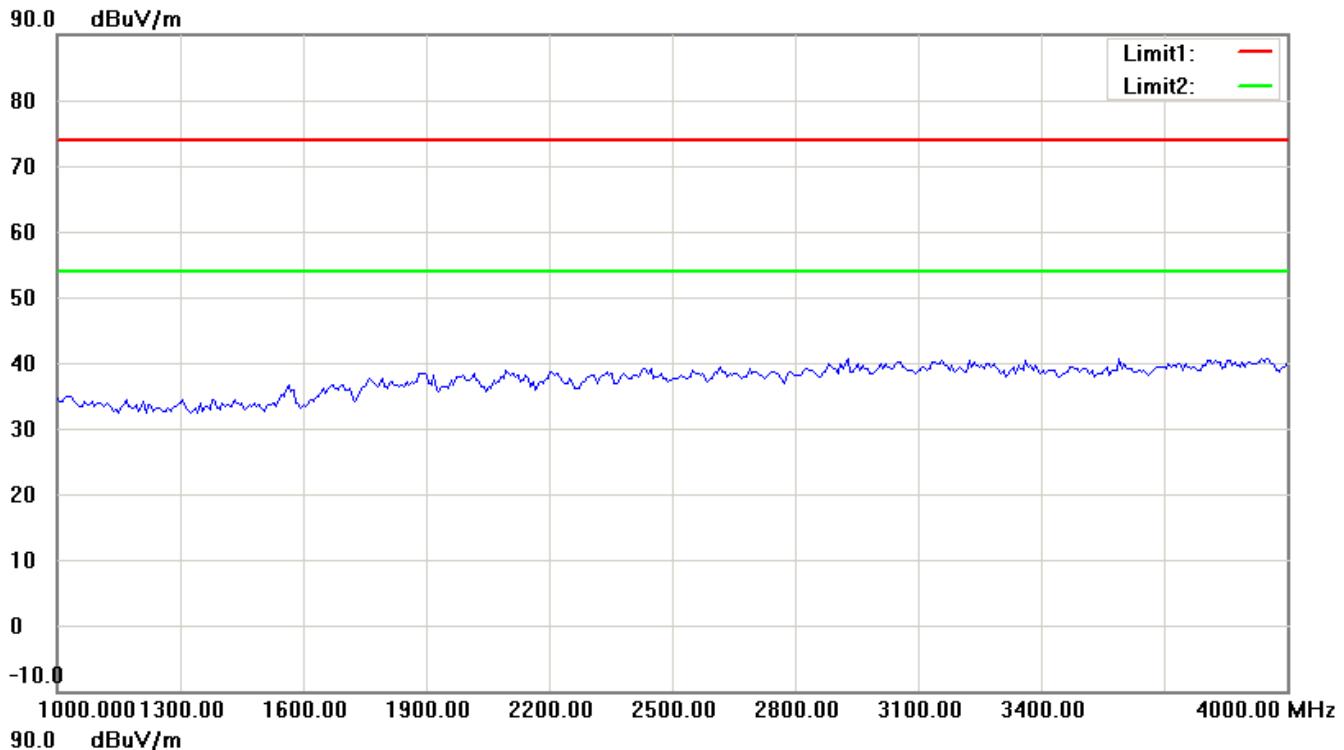
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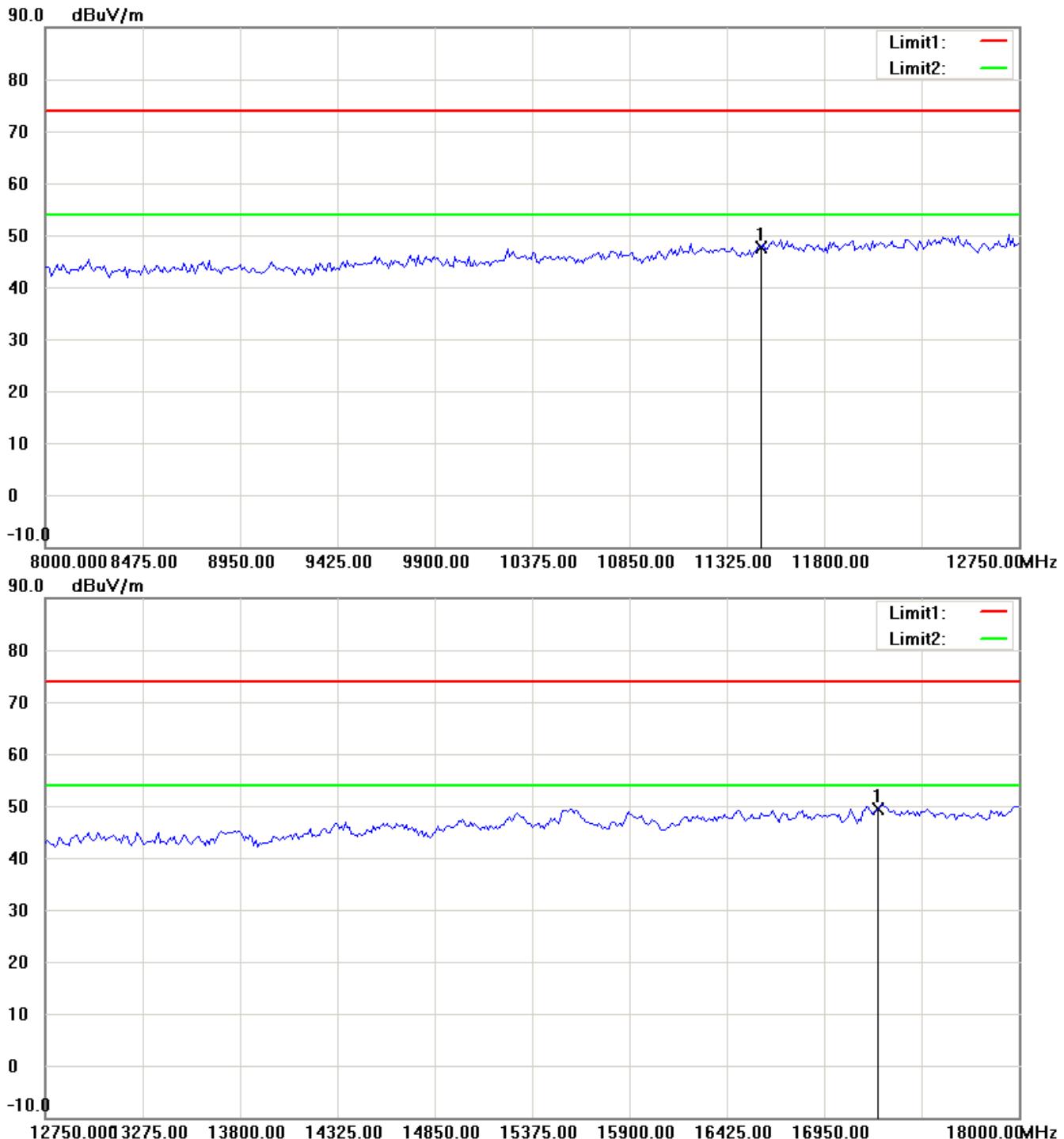




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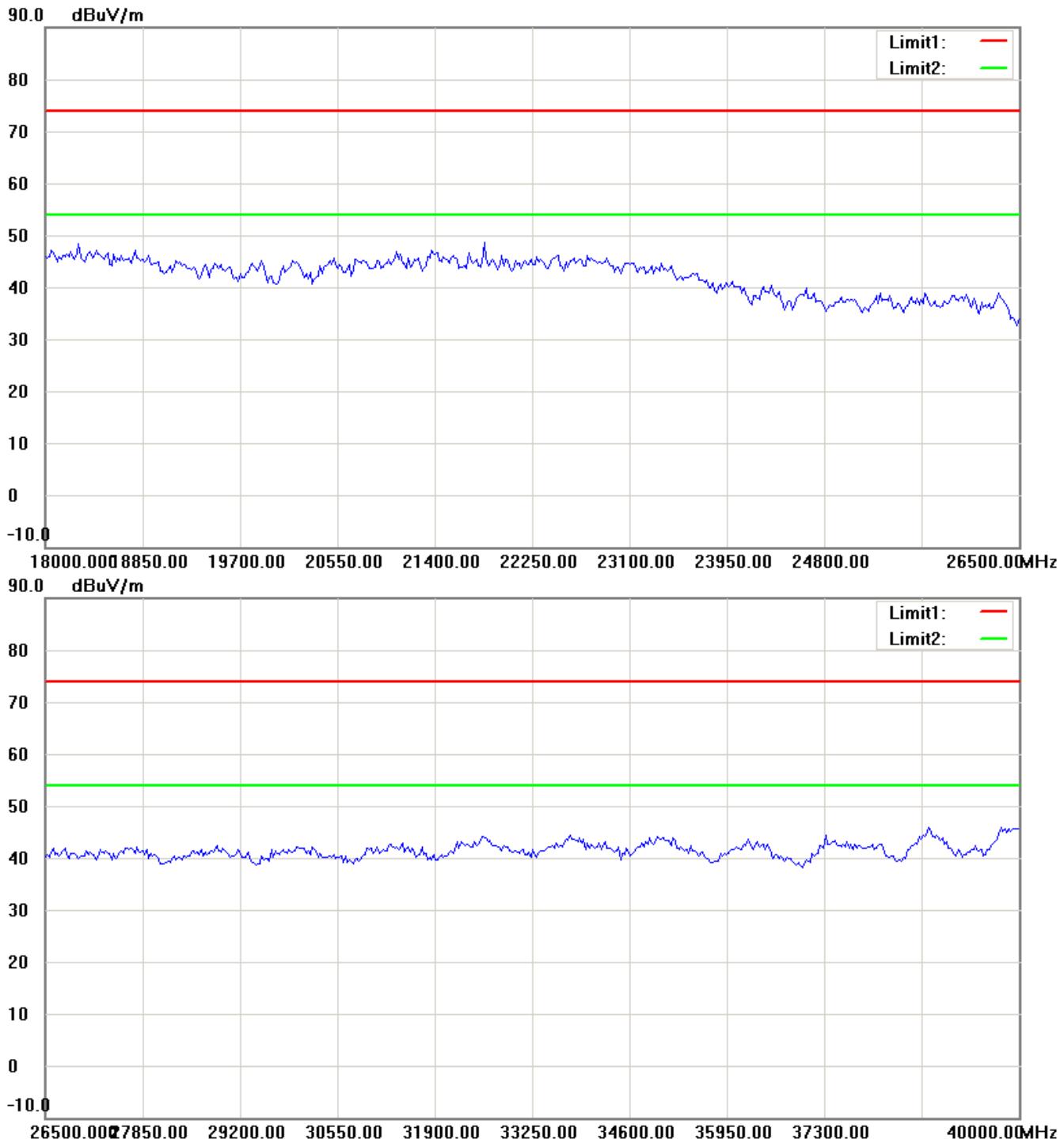
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# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

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# Worldwide Testing Services(Taiwan) Co., Ltd.

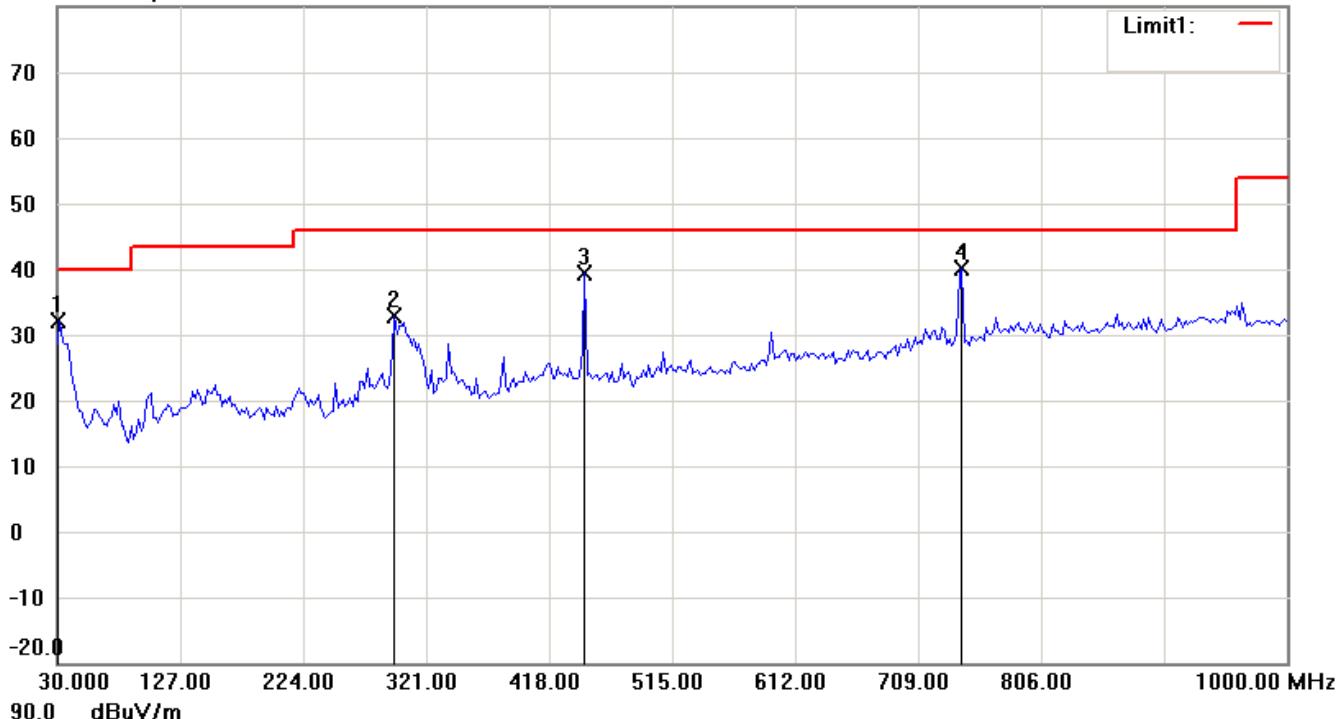
Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

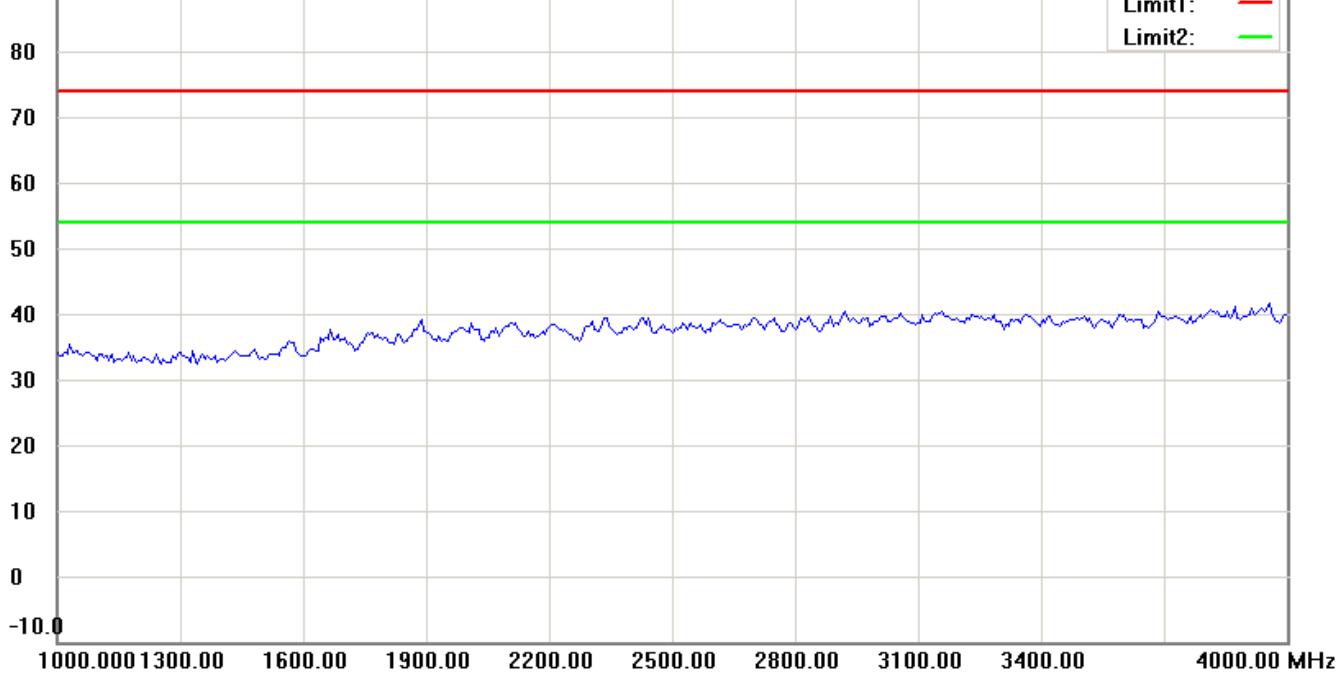
802.11n 20MHz ch157 TX

Antenna Polarization H

80.0 dBuV/m



90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

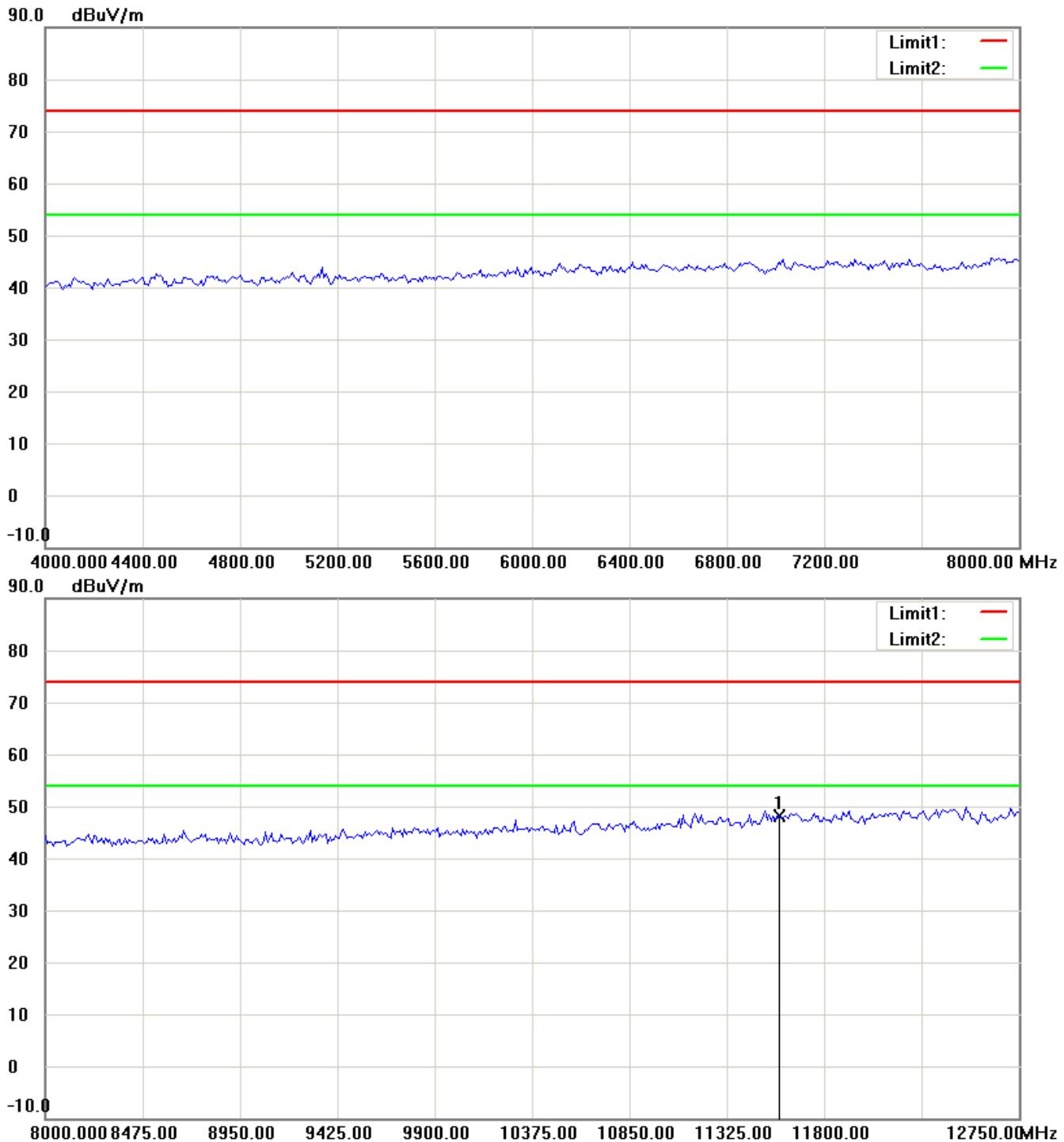
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

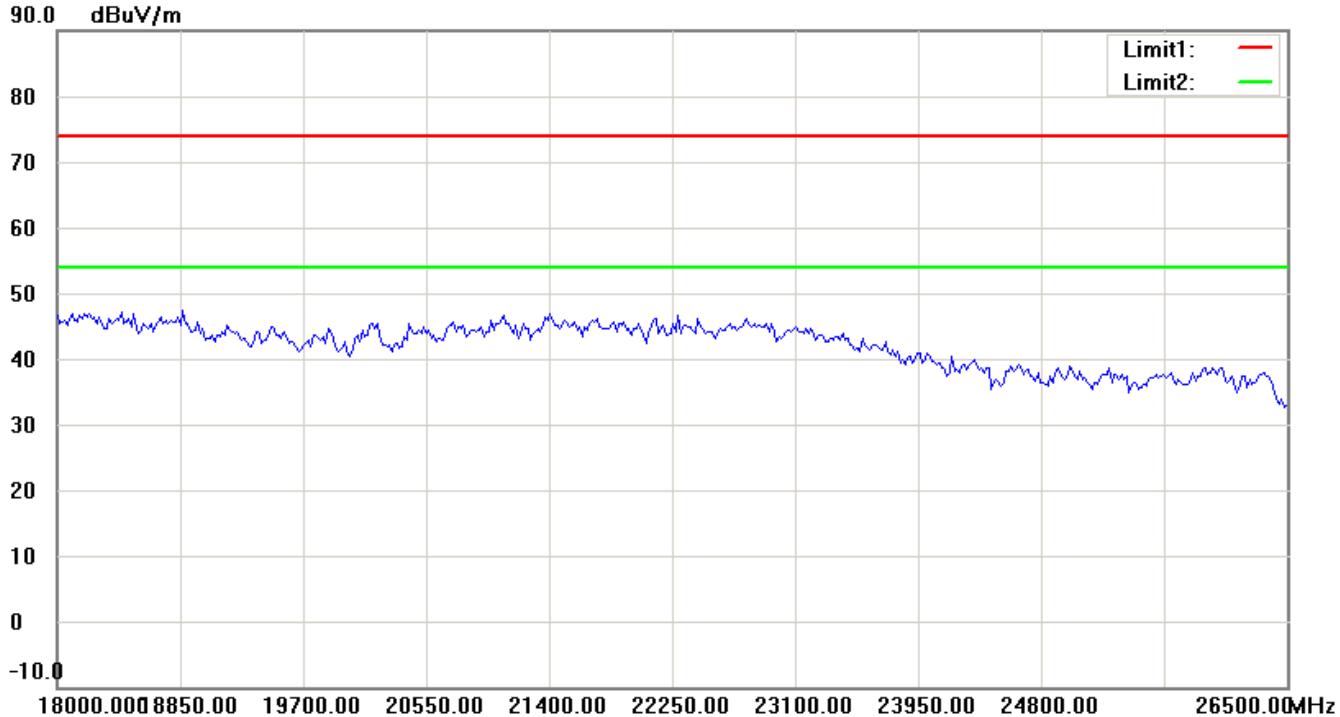
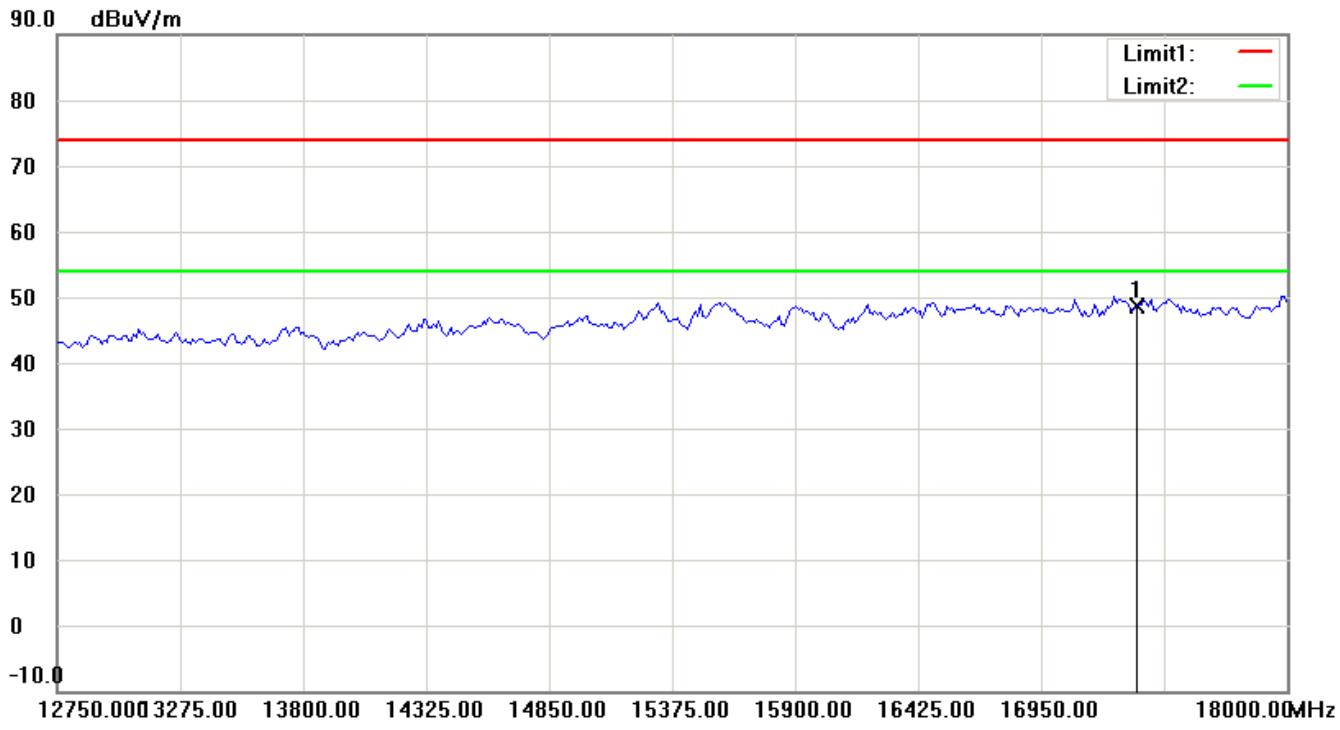
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

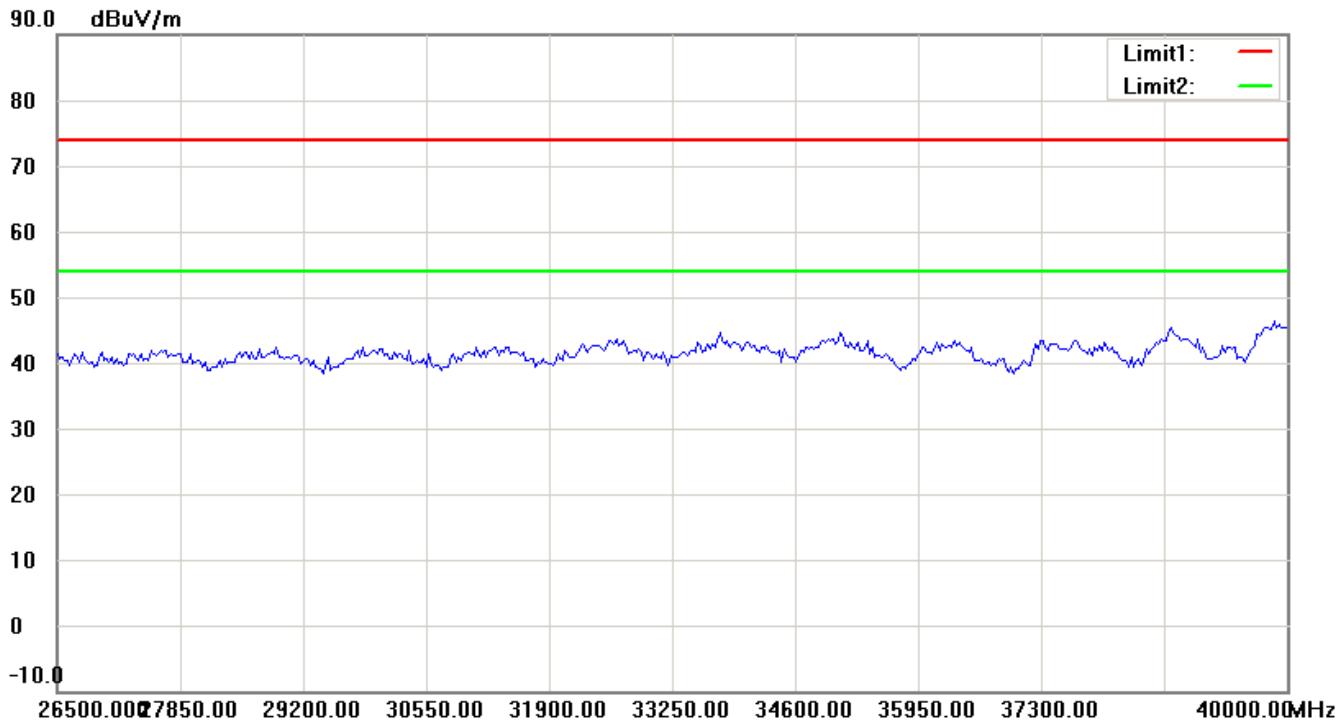
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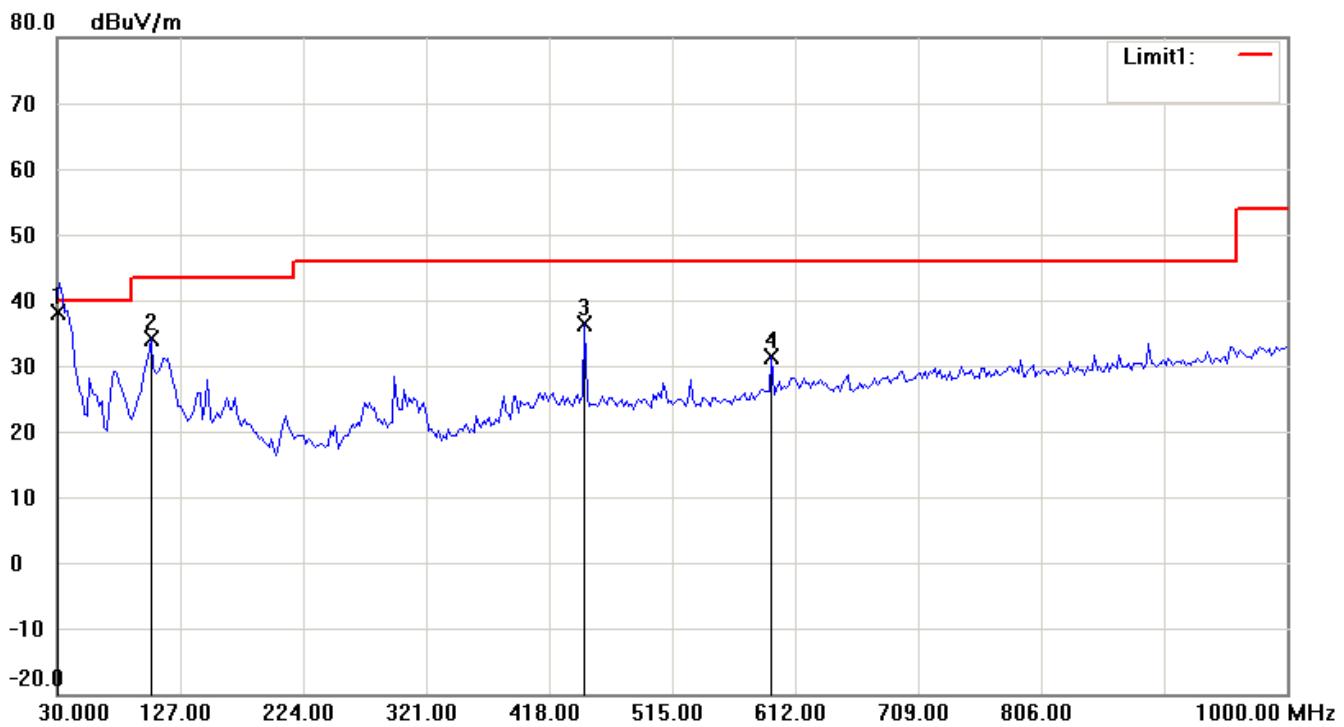
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

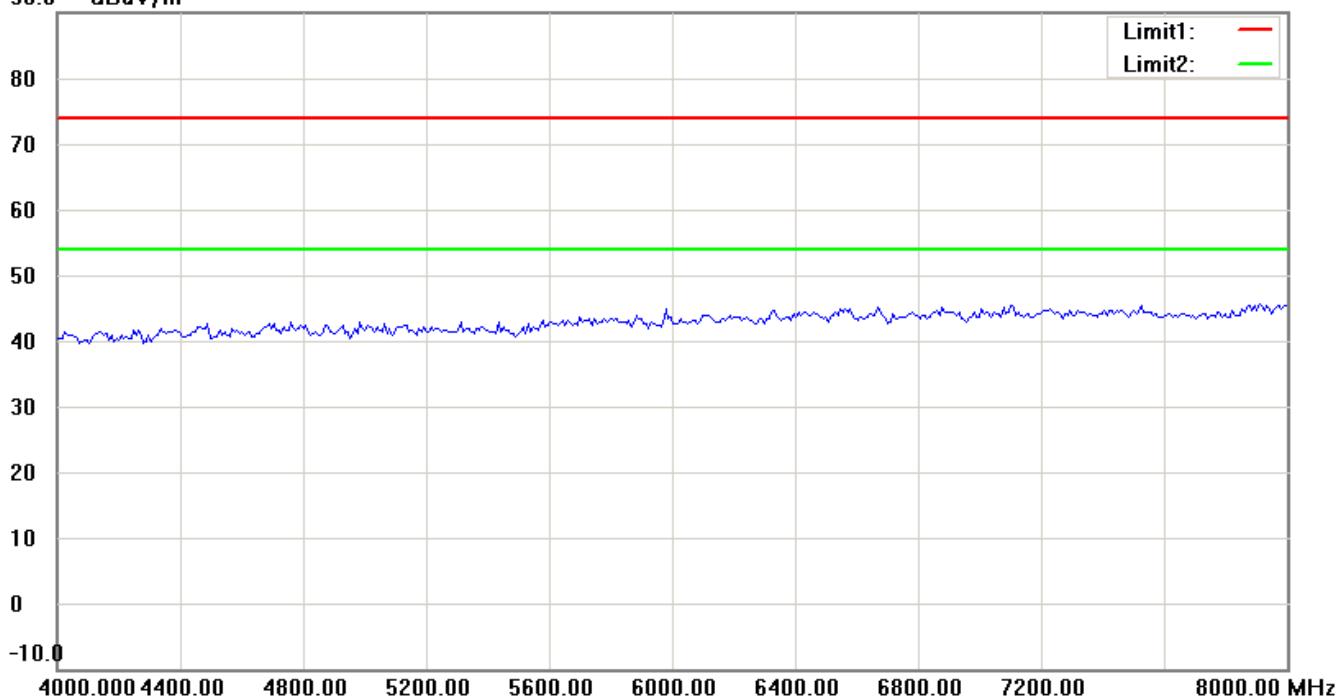
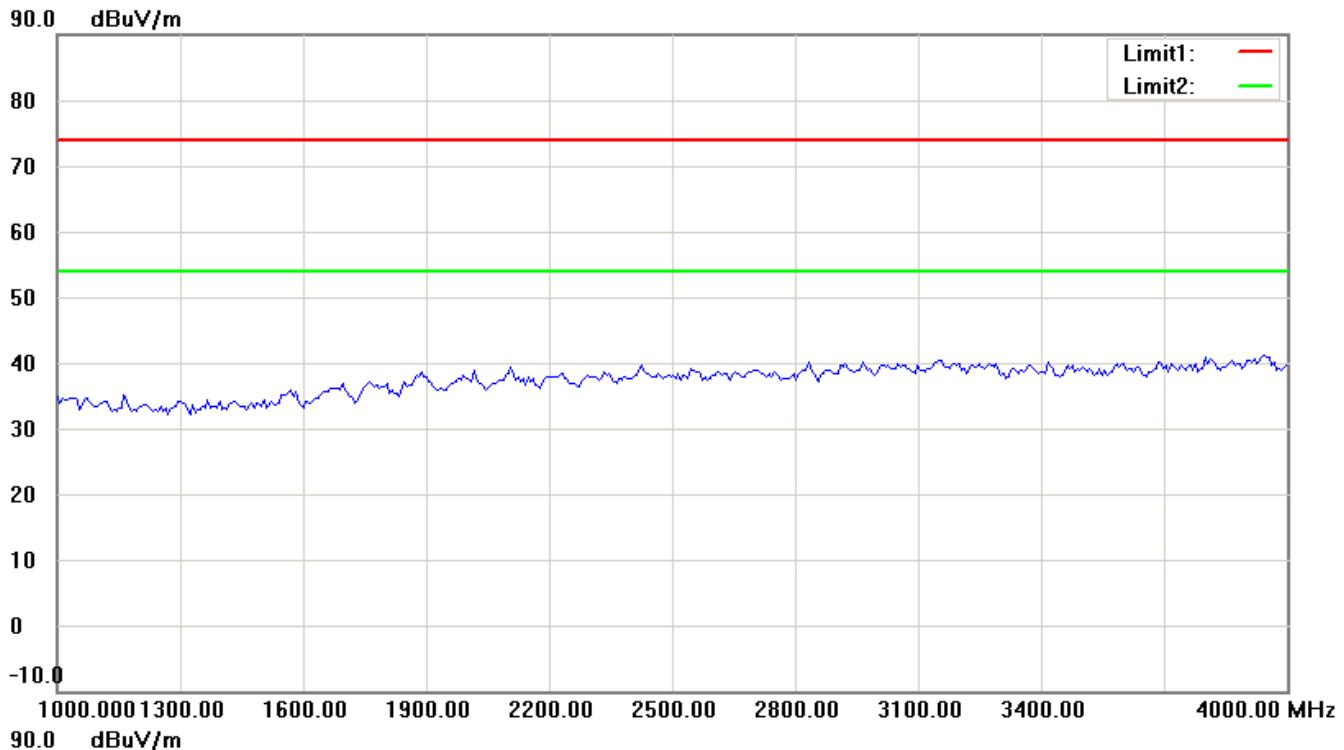
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

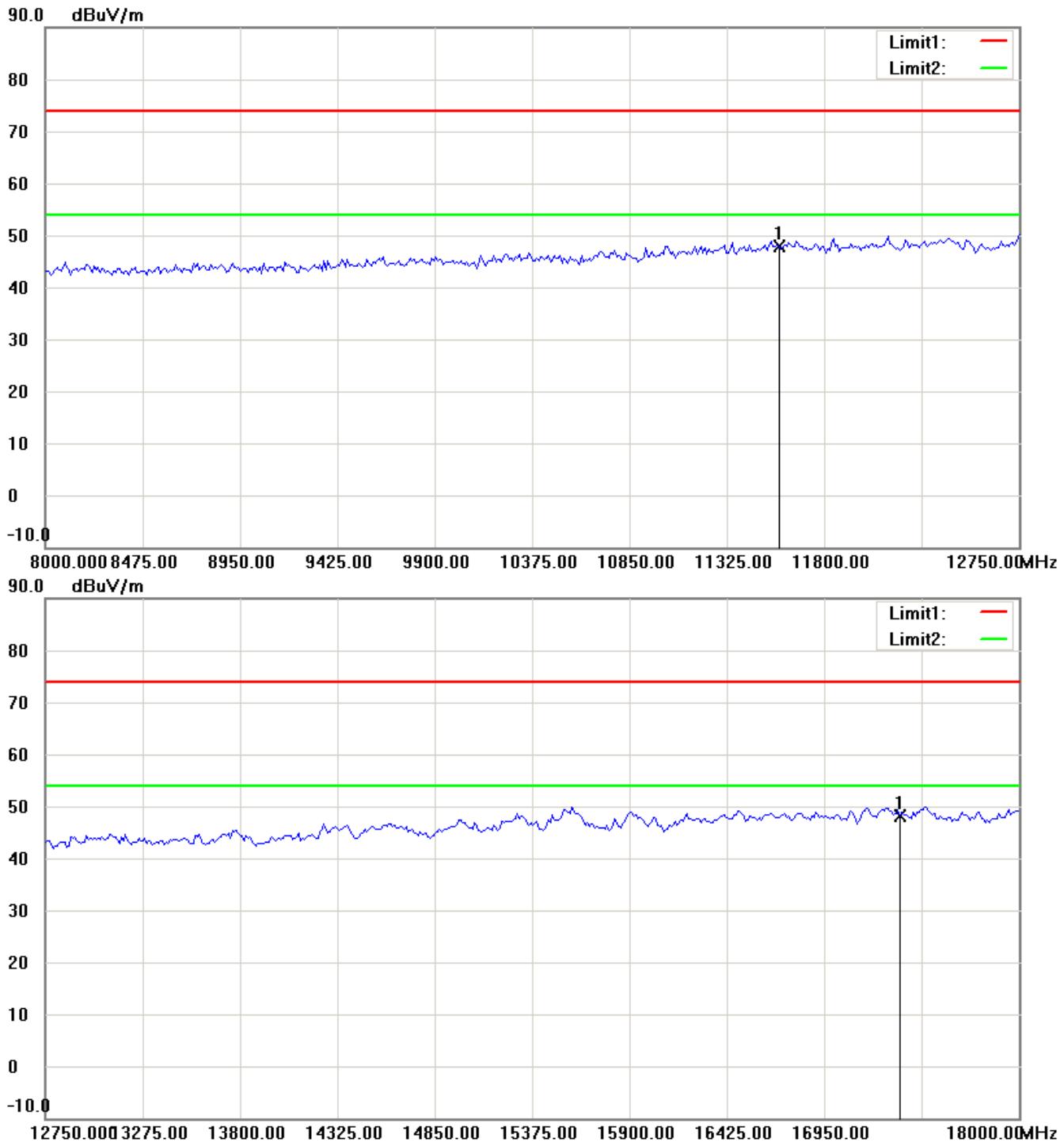
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

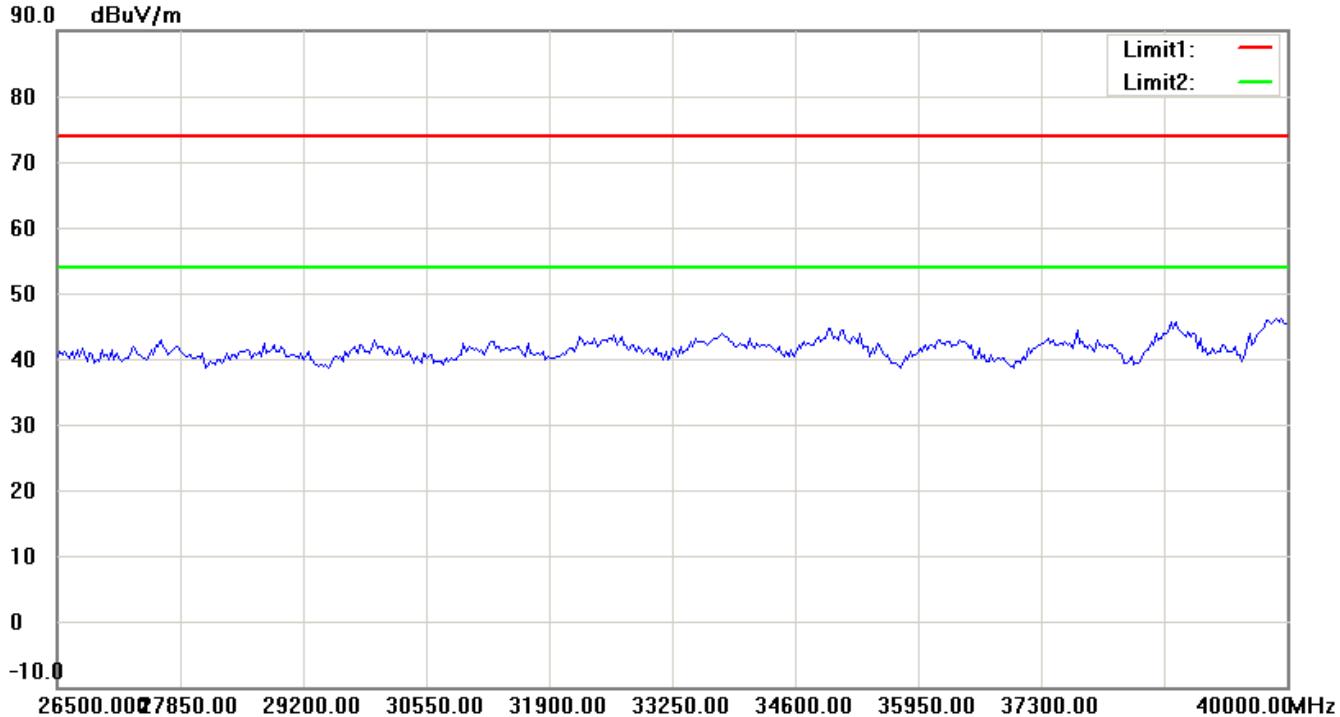
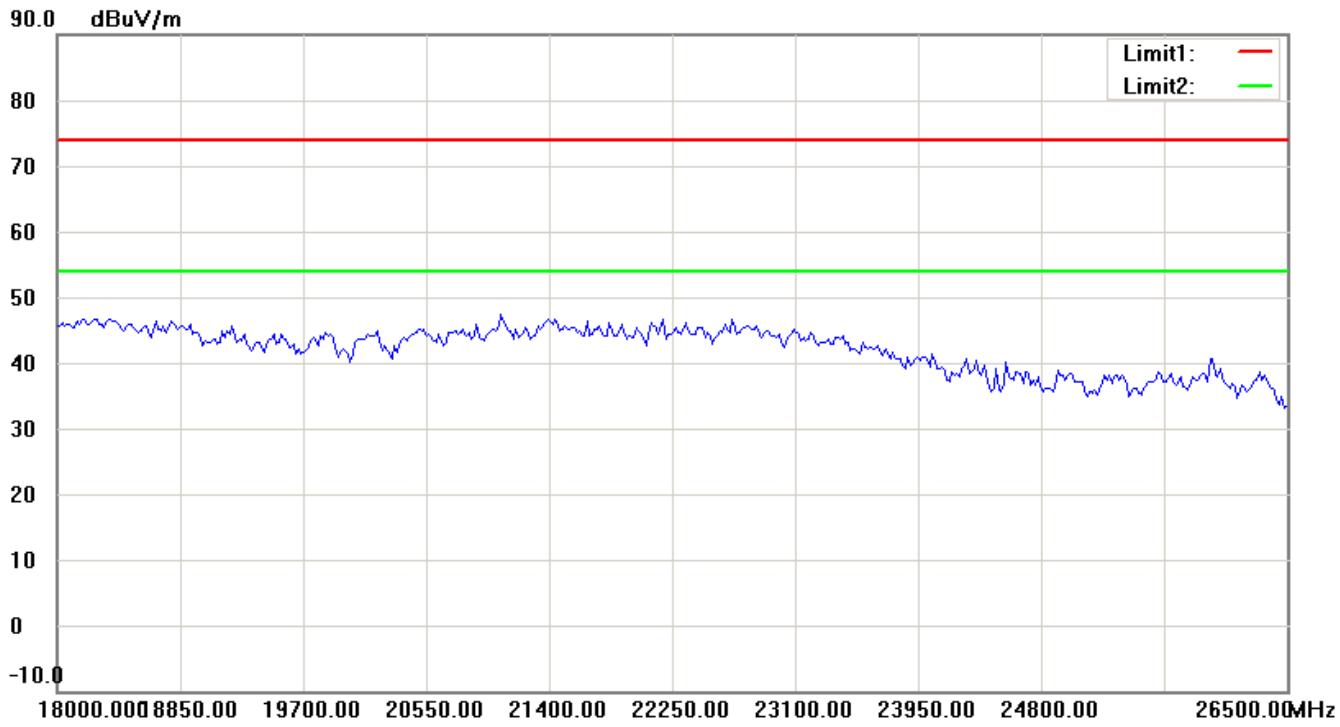
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

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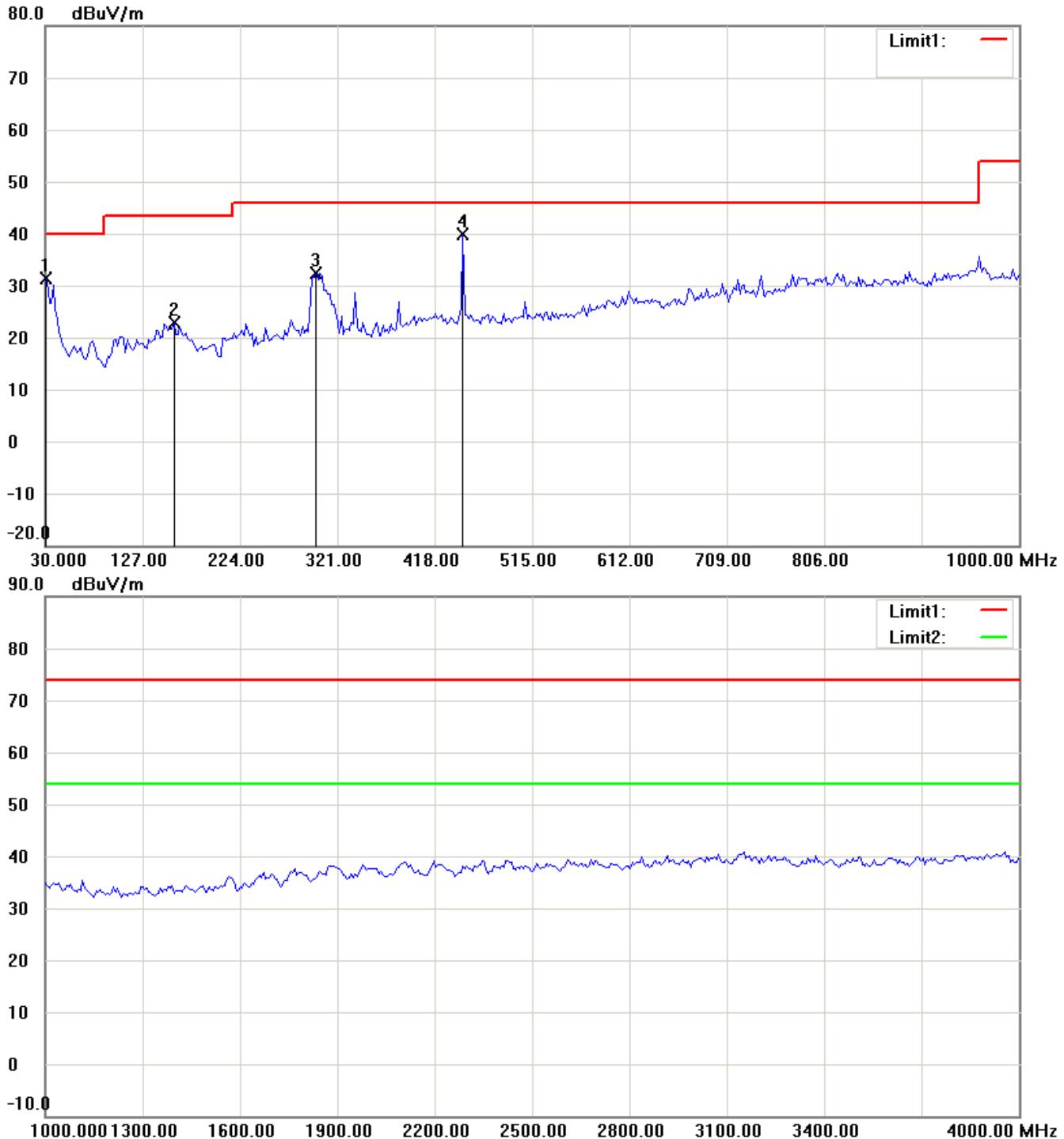
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

802.11n 20MHz ch165 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

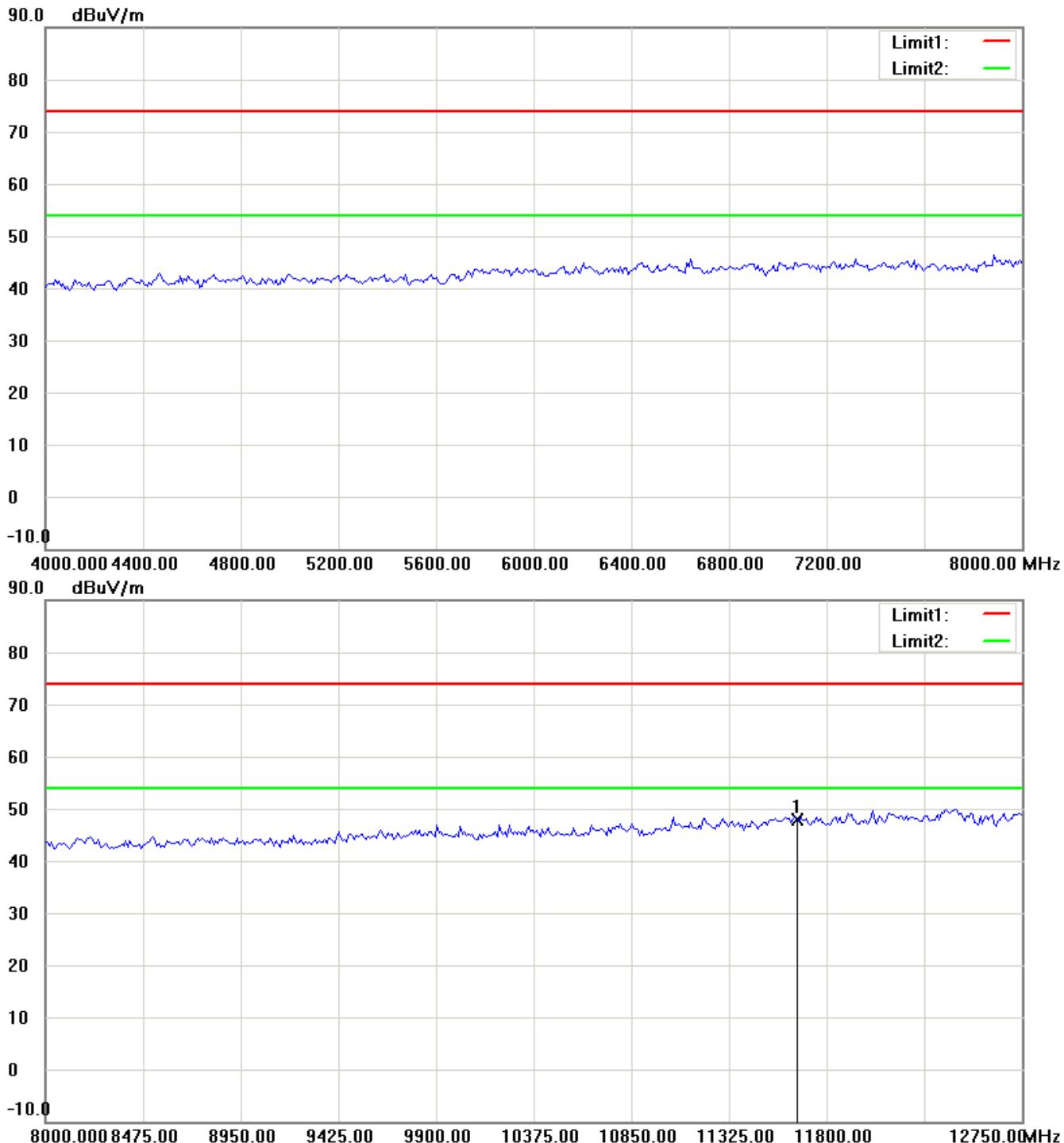
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

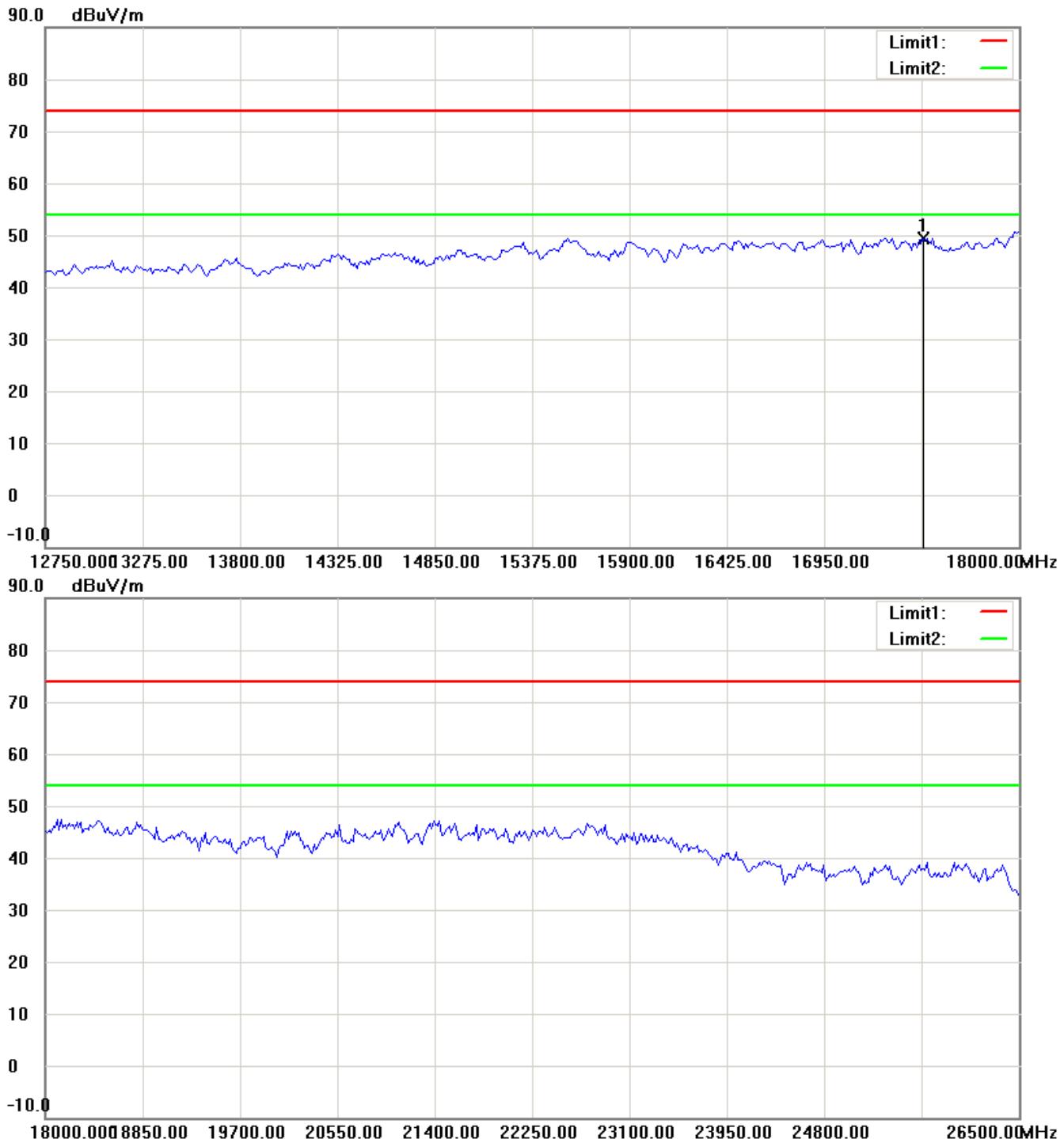
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

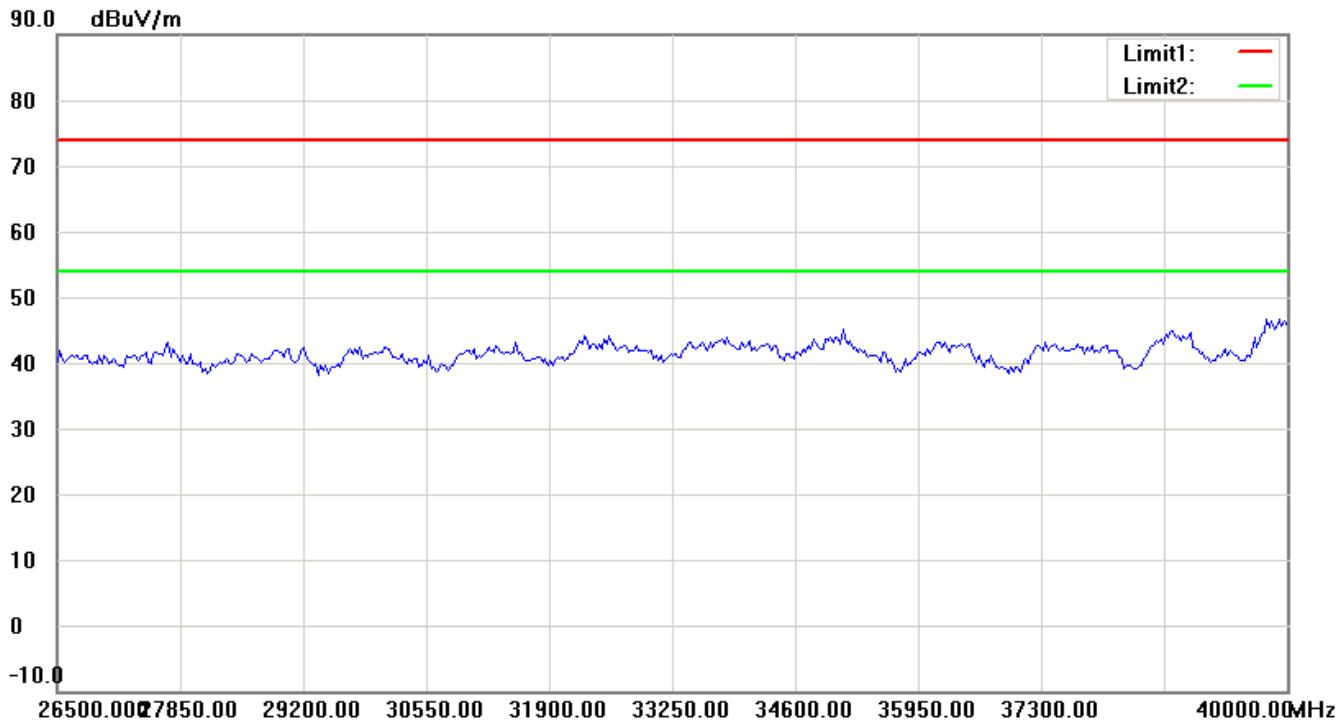
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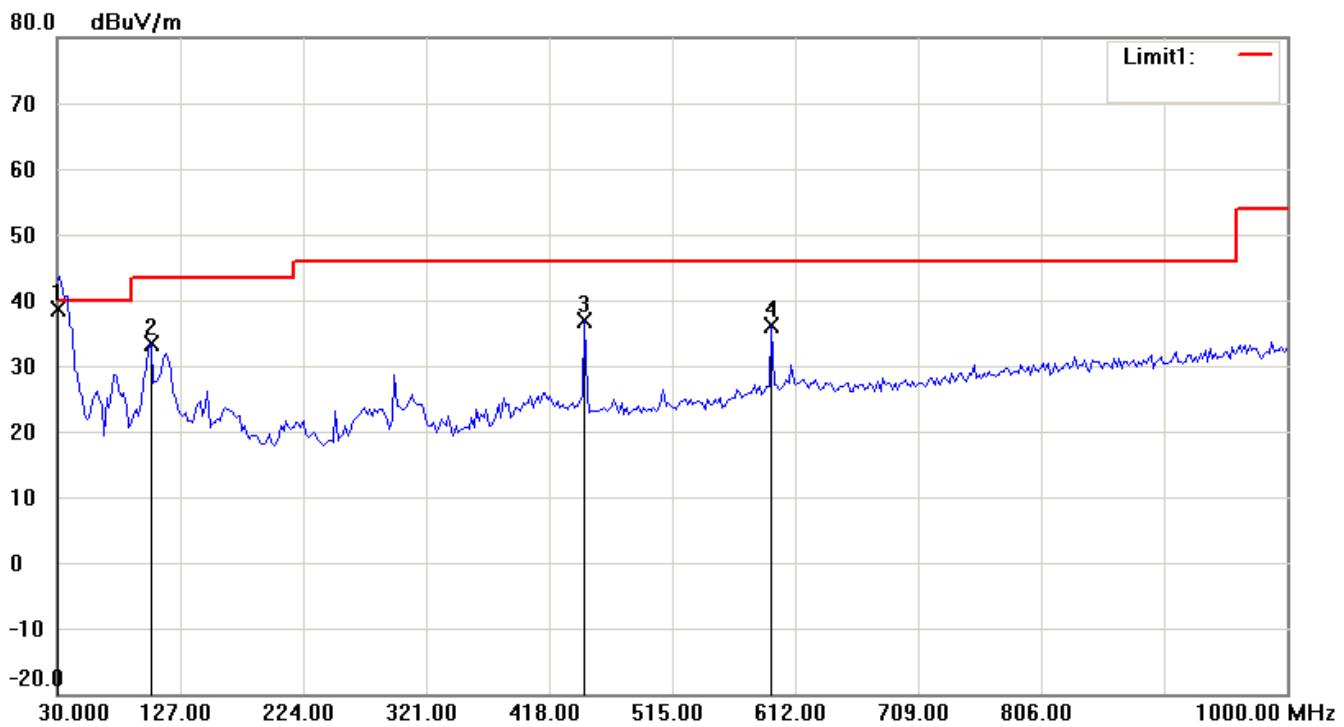
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

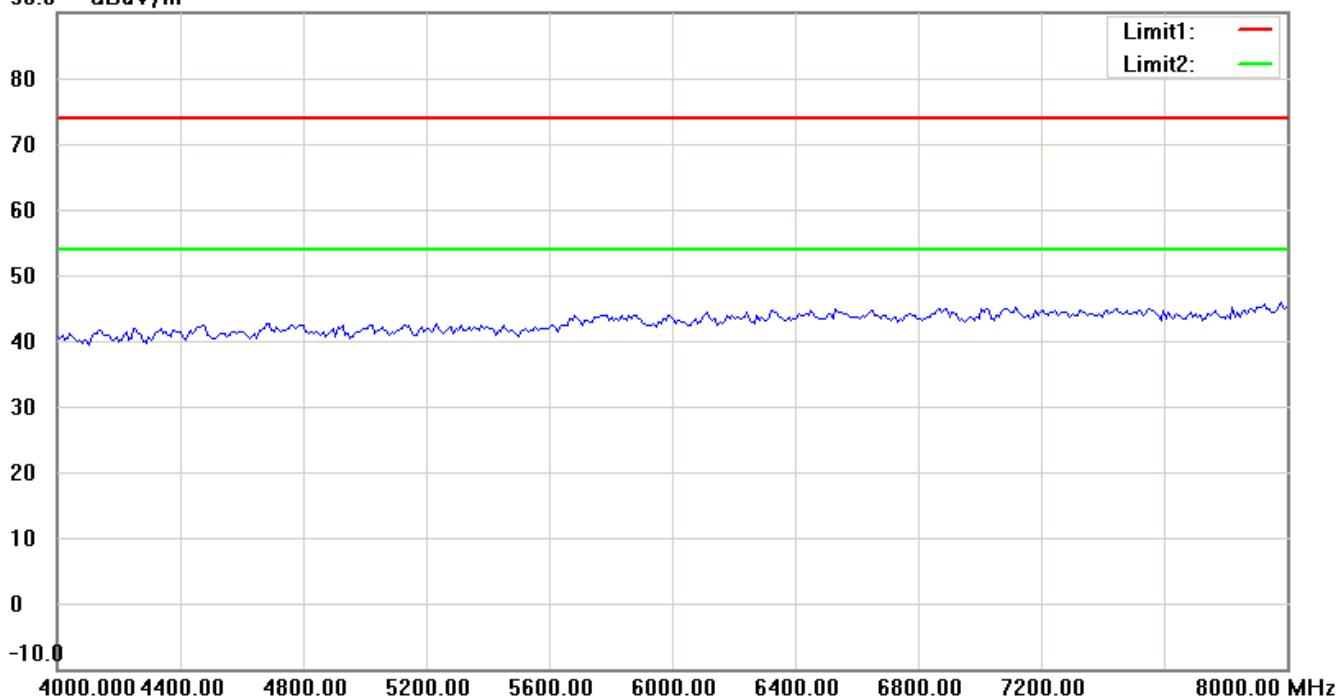
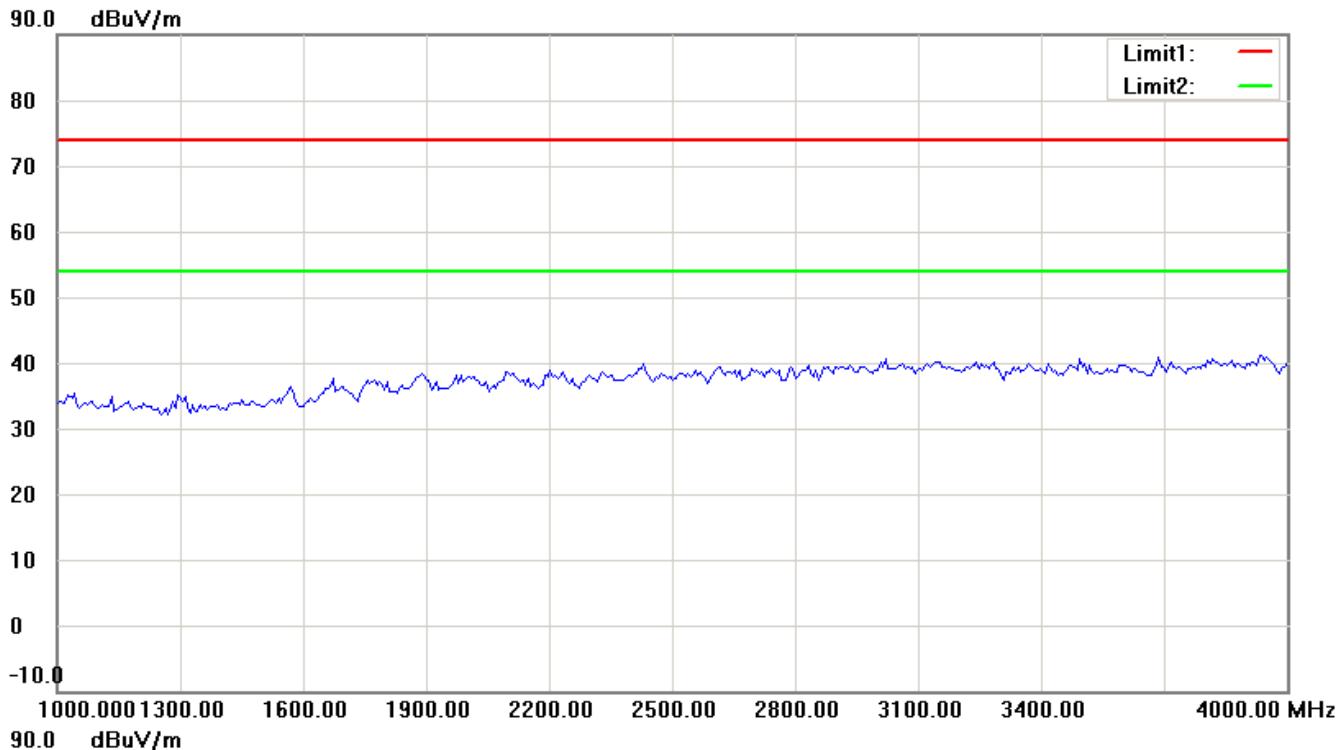
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

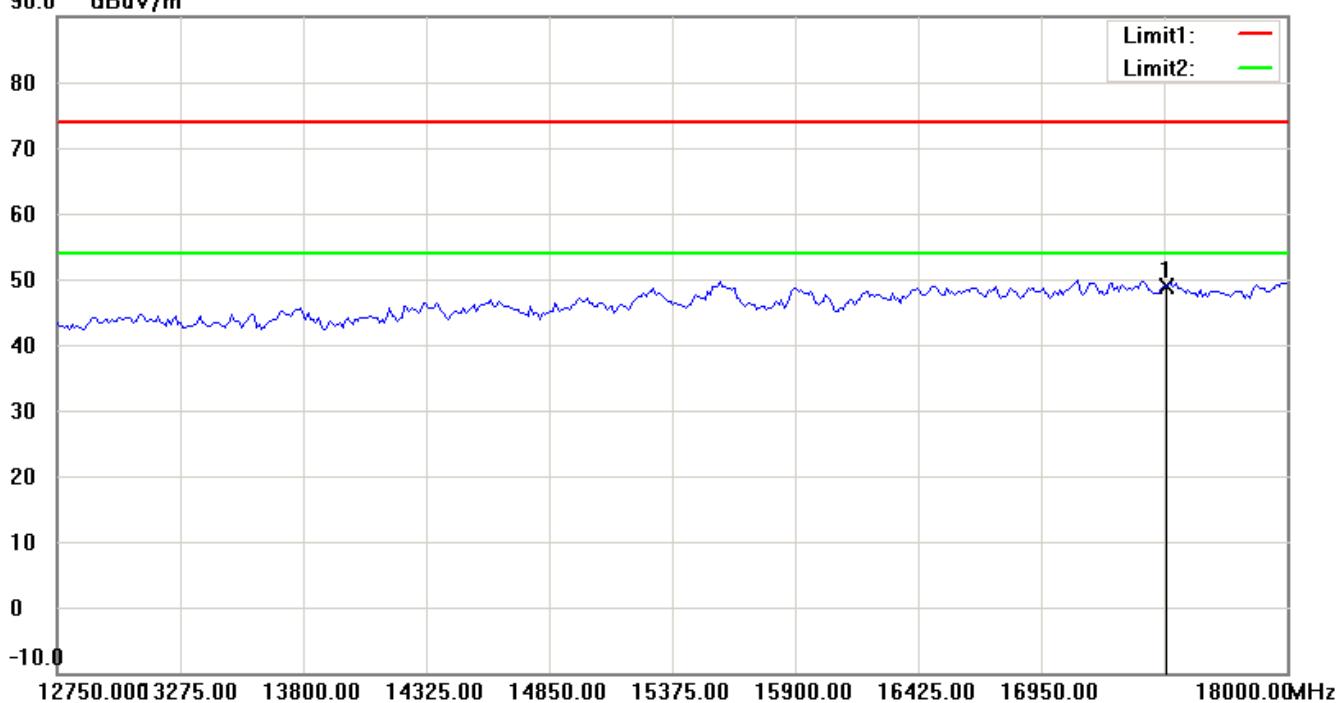
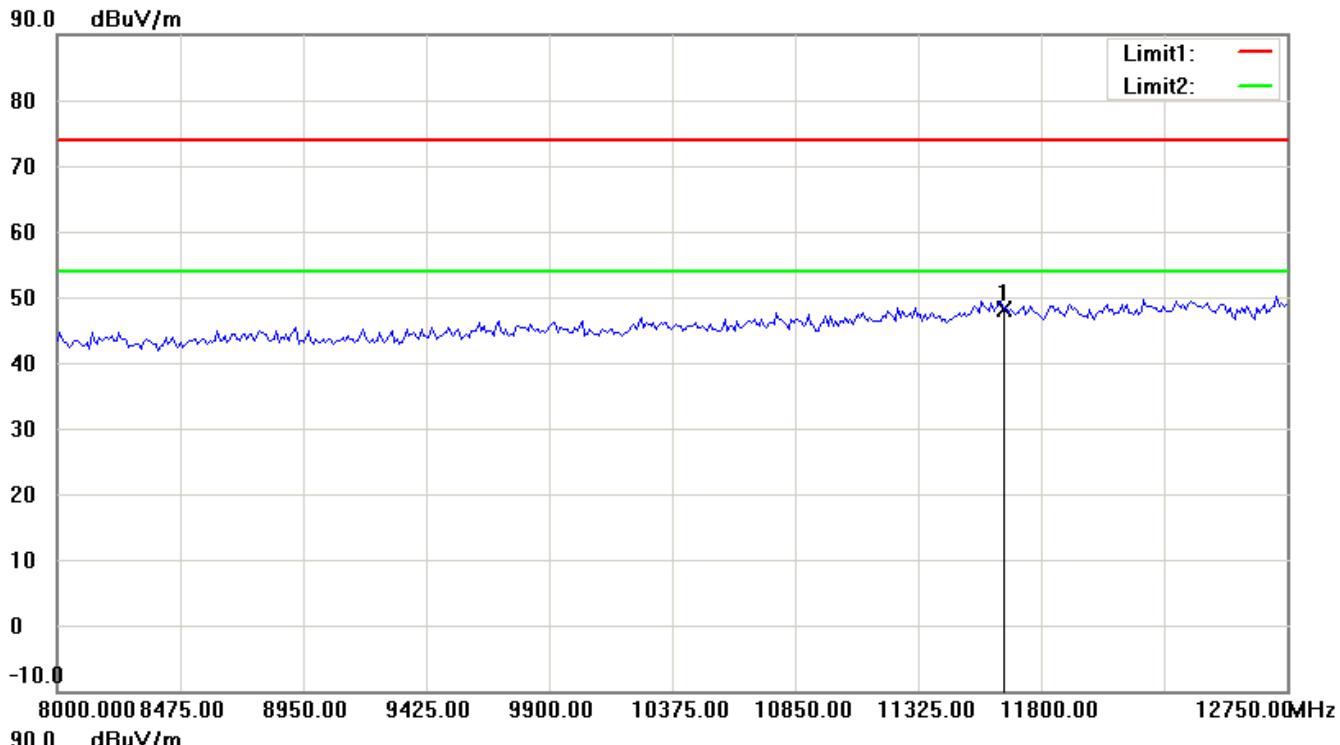
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Note:

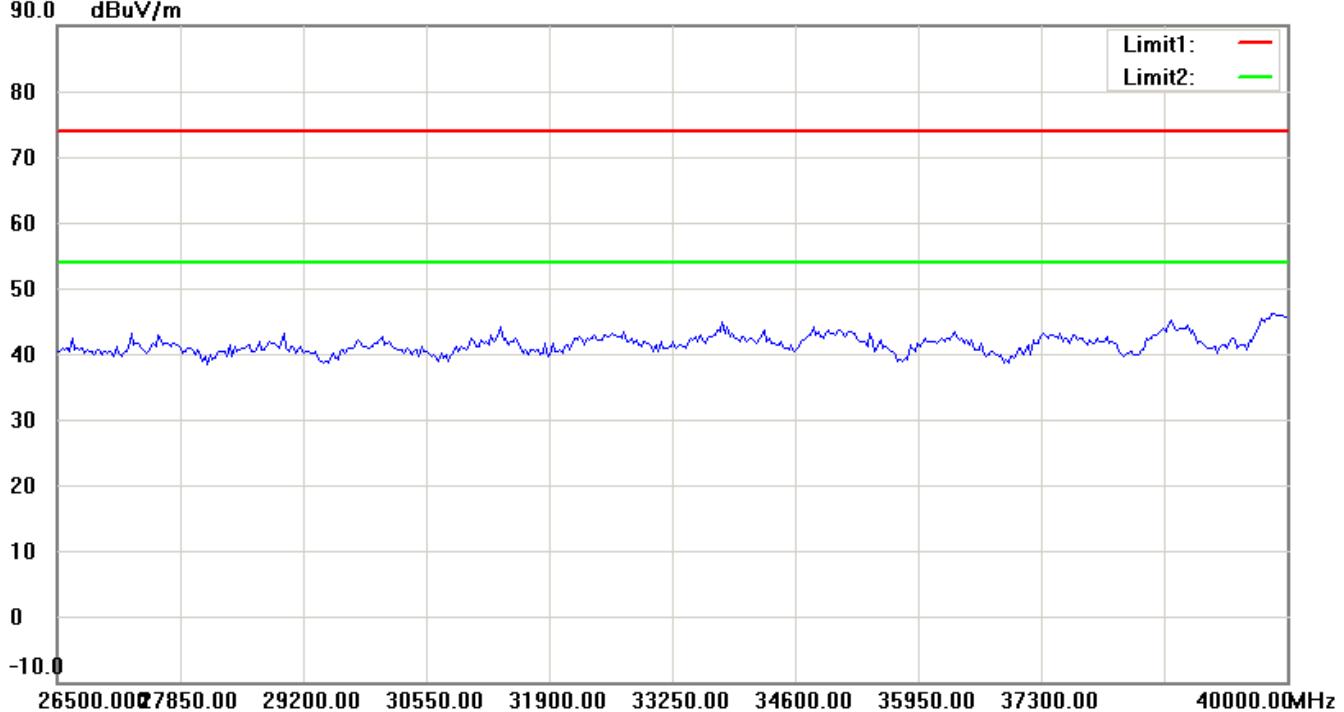
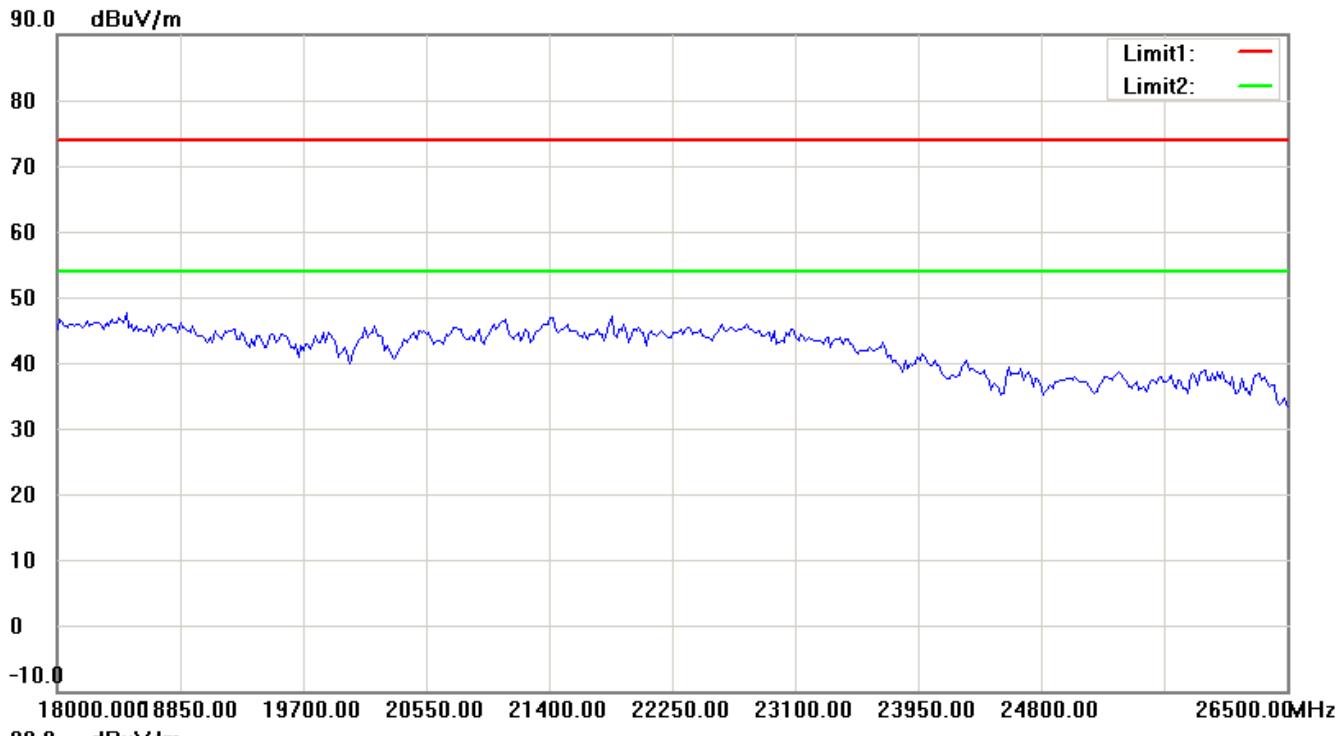
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

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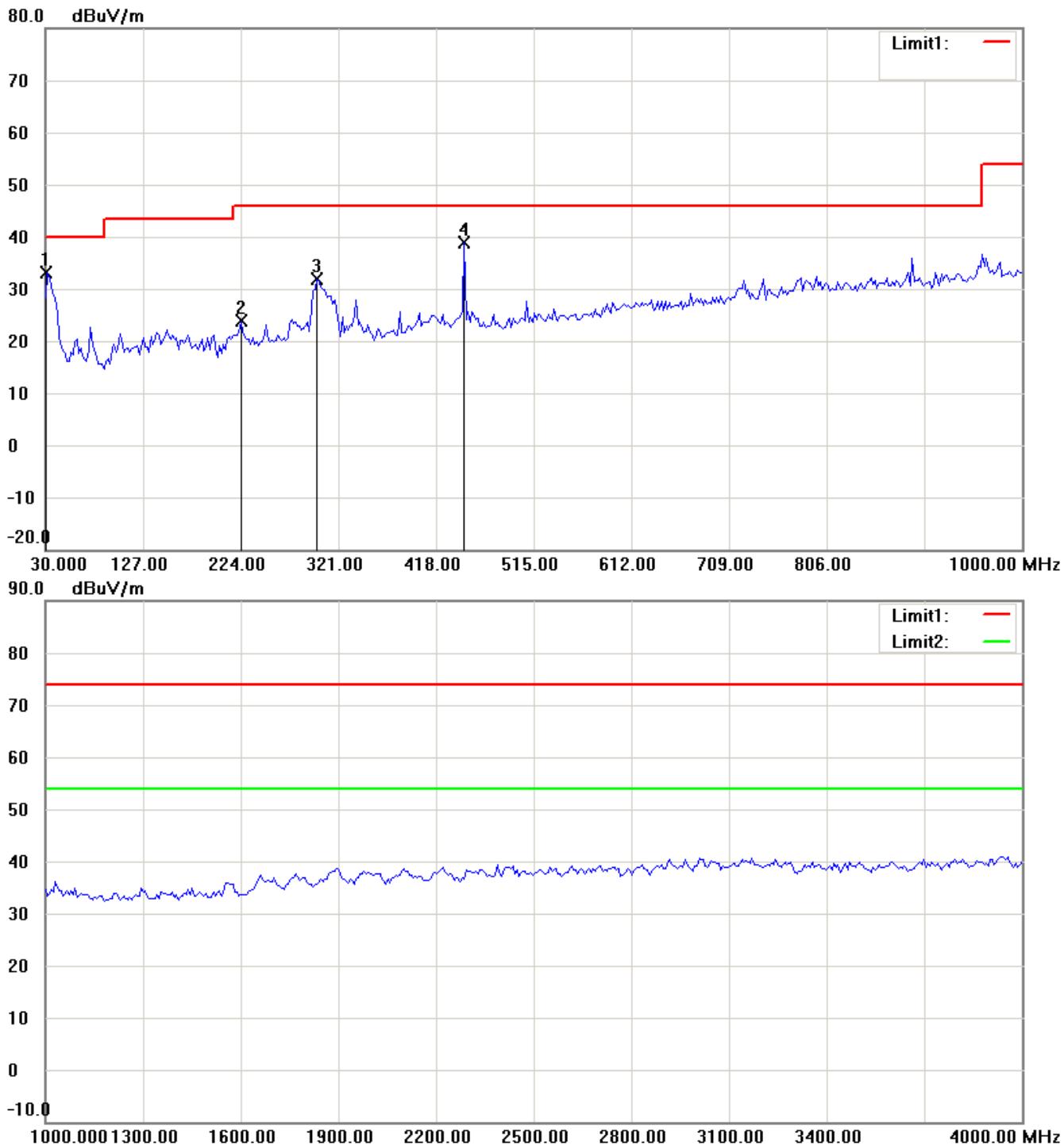
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478

802.11n 40MHz ch151 TX

Antenna Polarization H



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

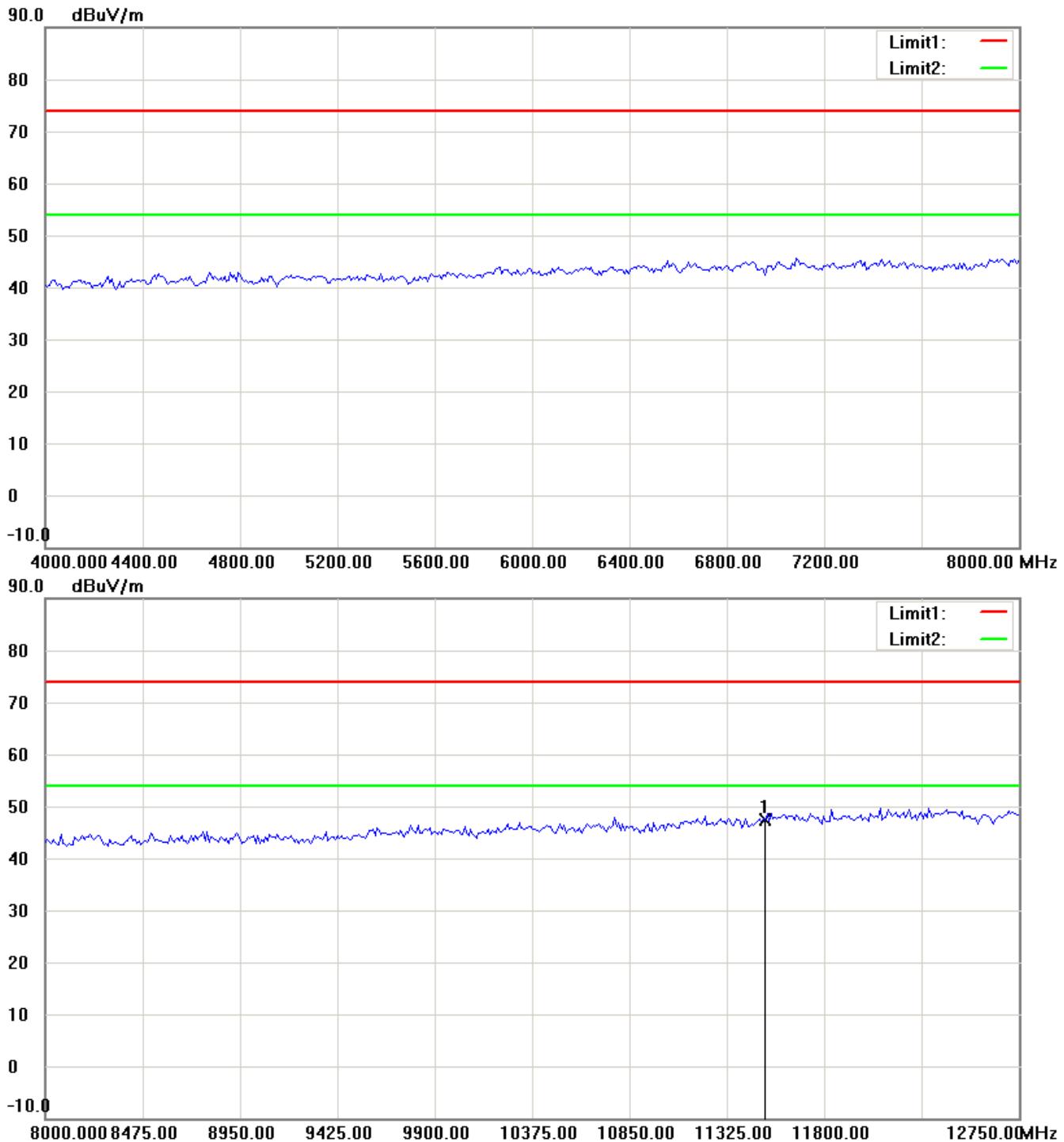
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

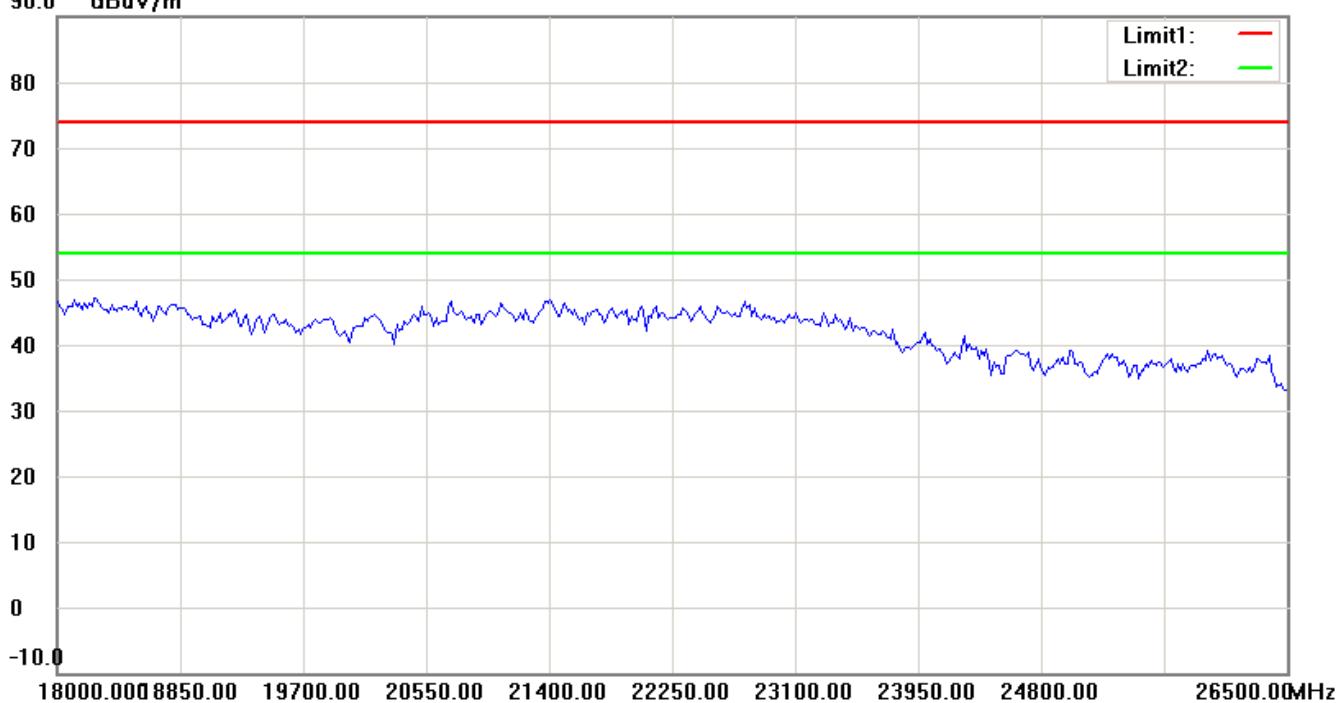
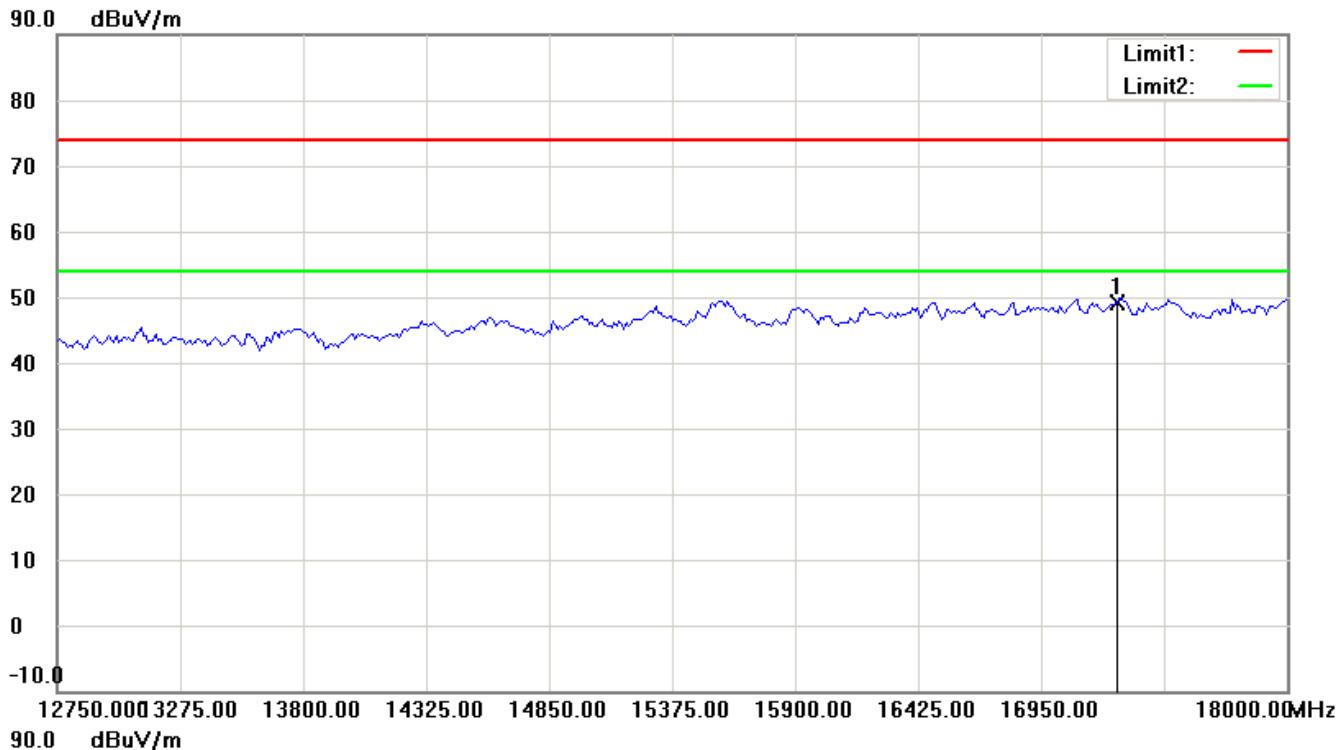
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

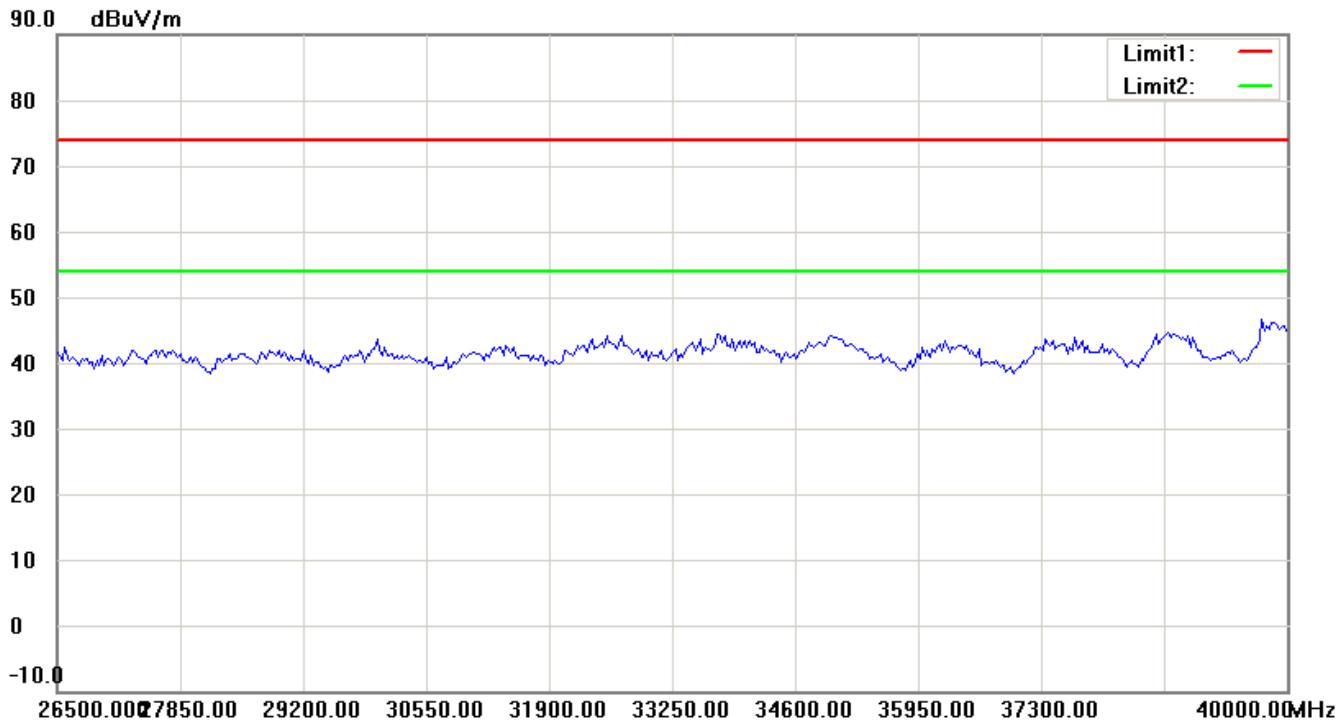
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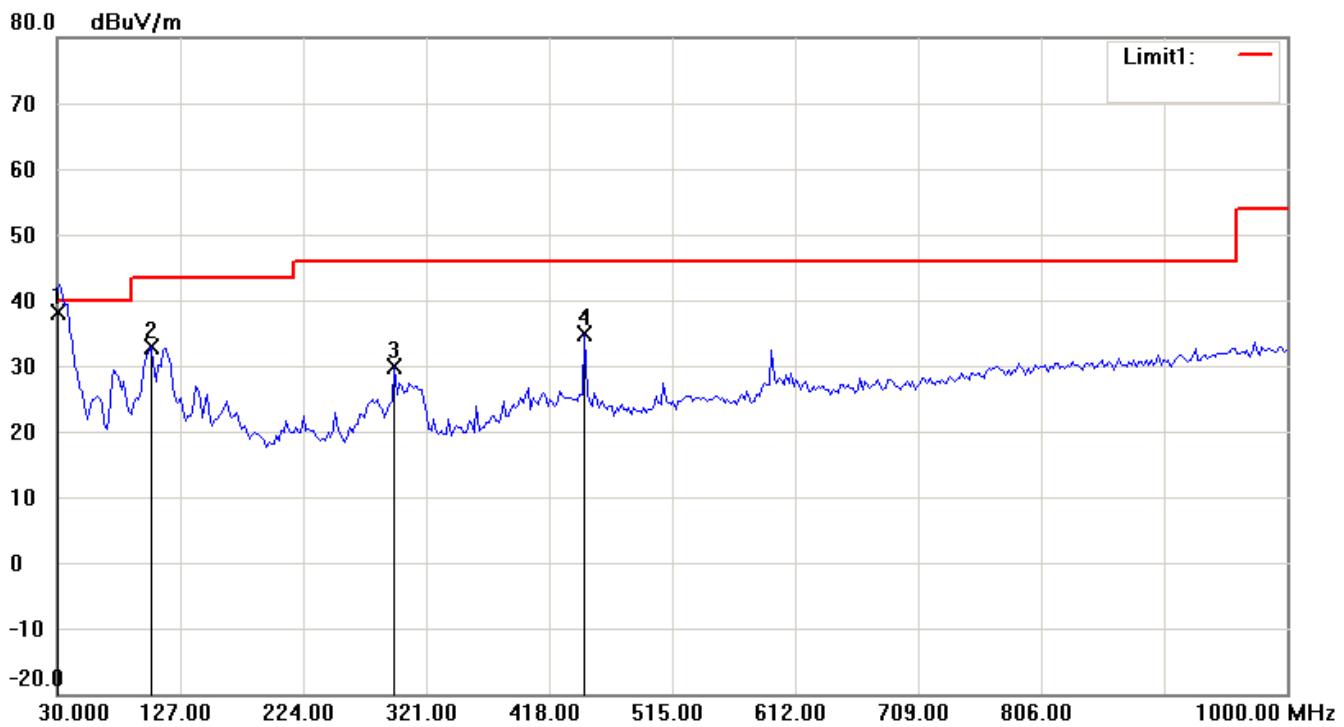
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

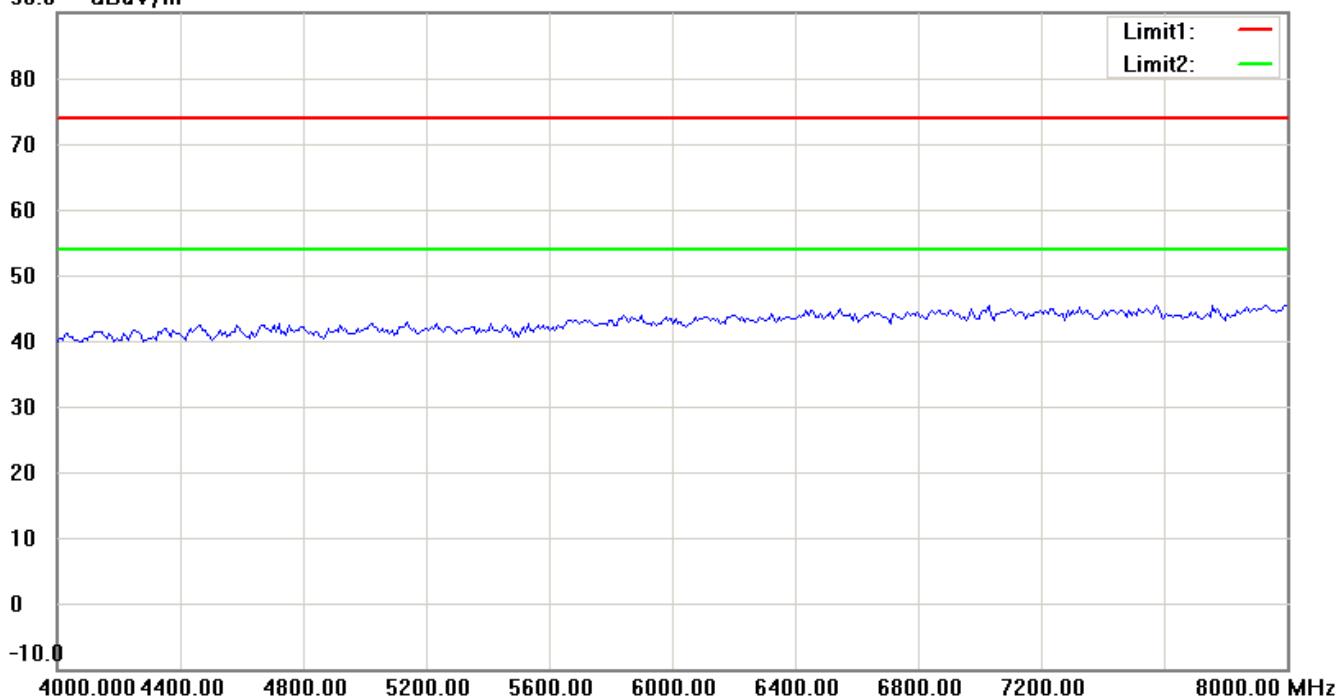
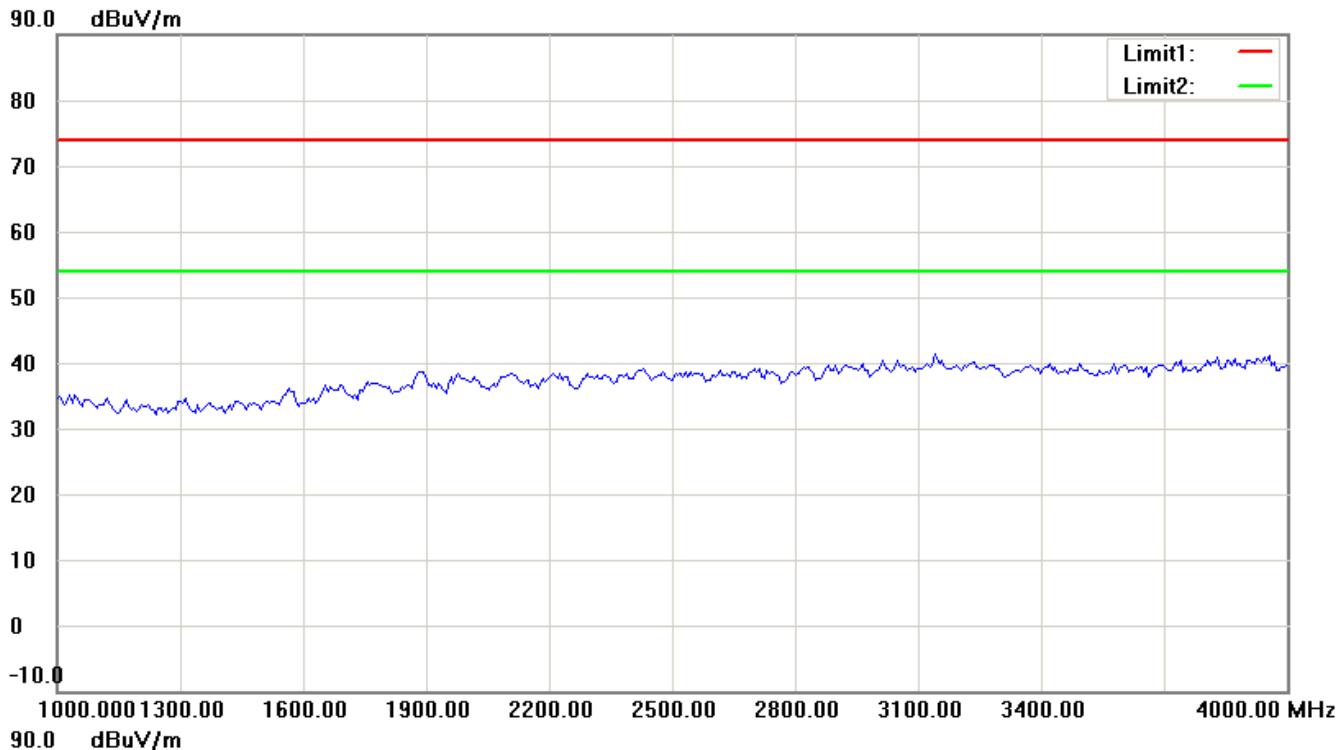
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

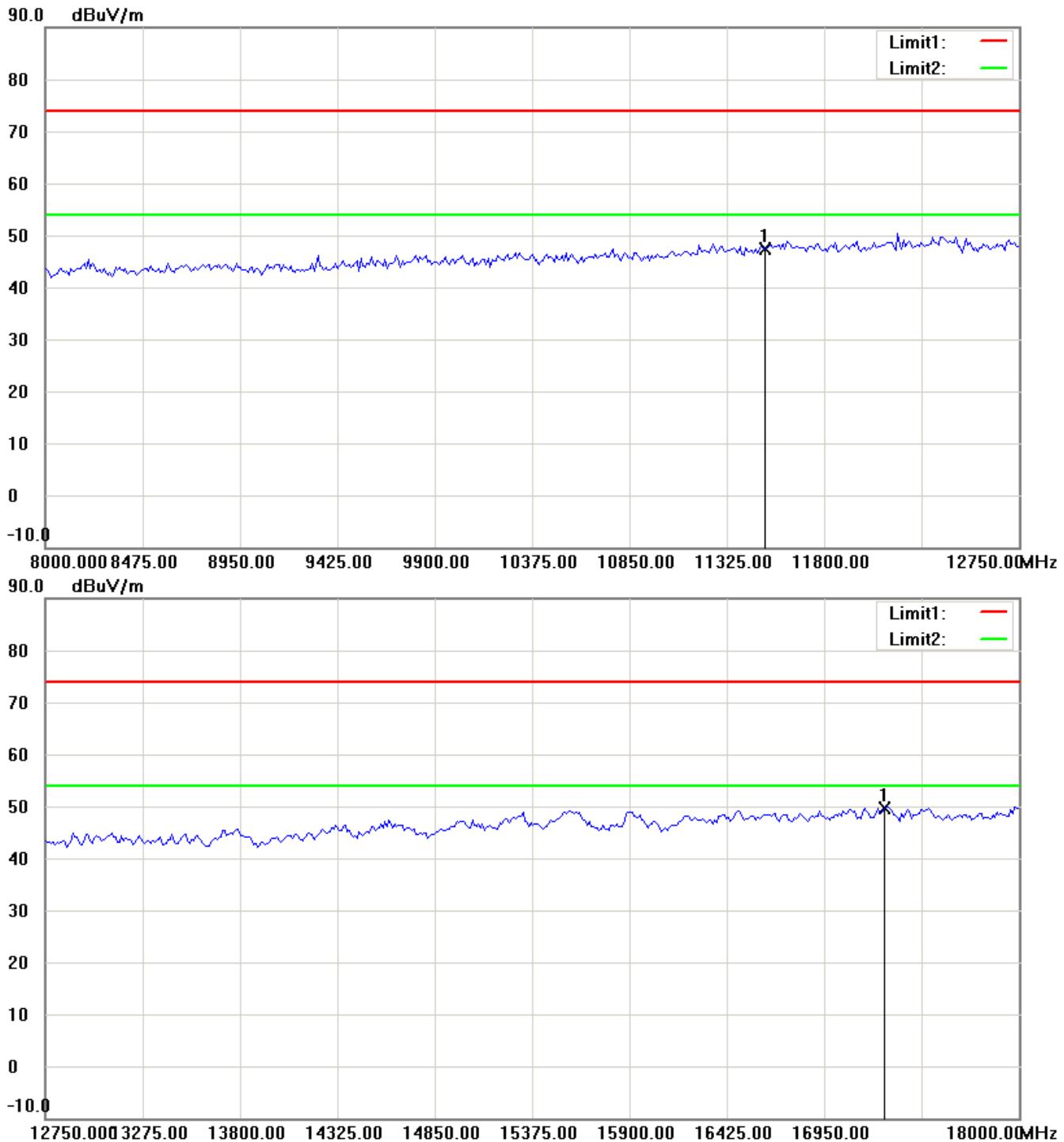
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

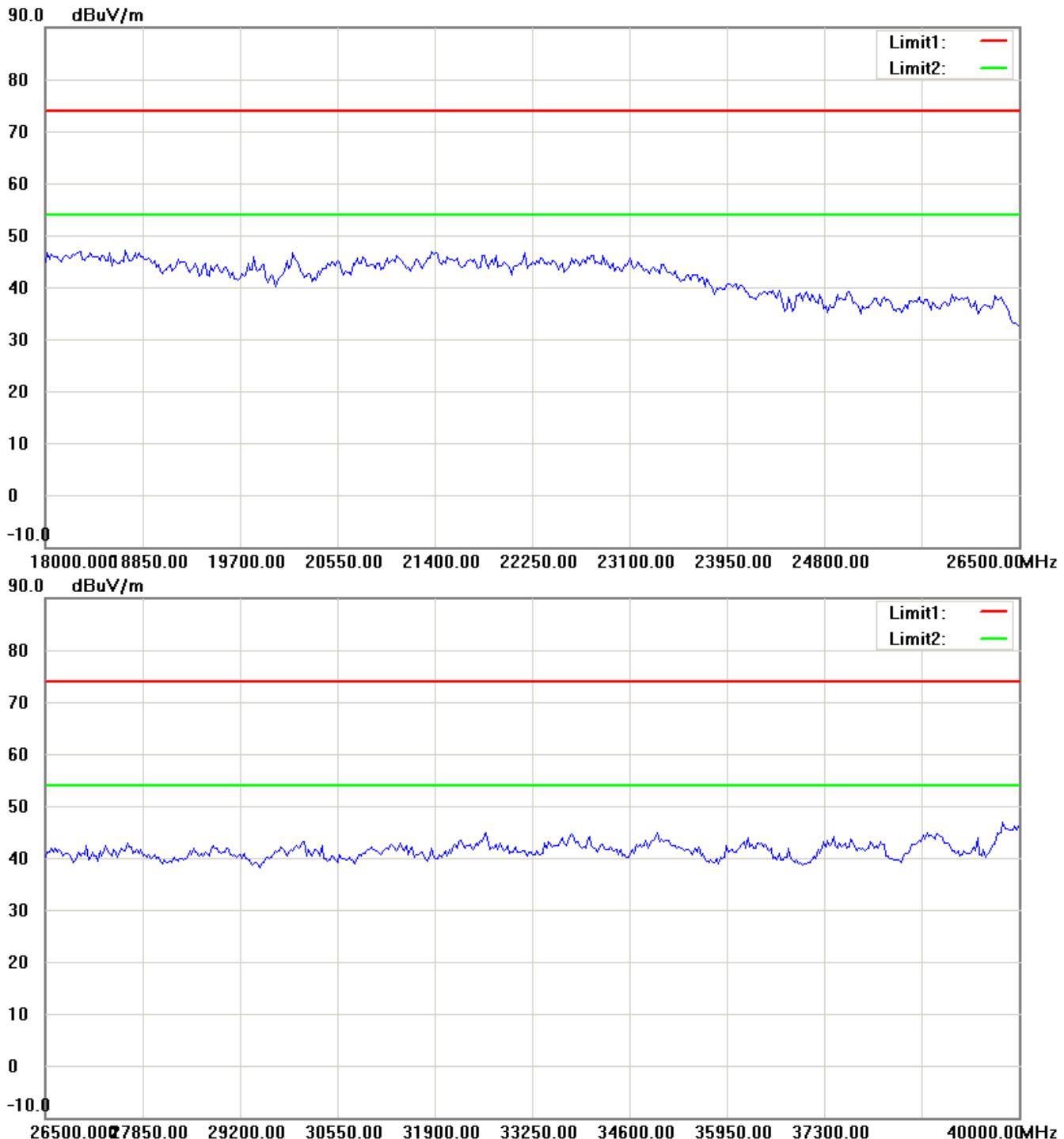
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# Worldwide Testing Services(Taiwan) Co., Ltd.

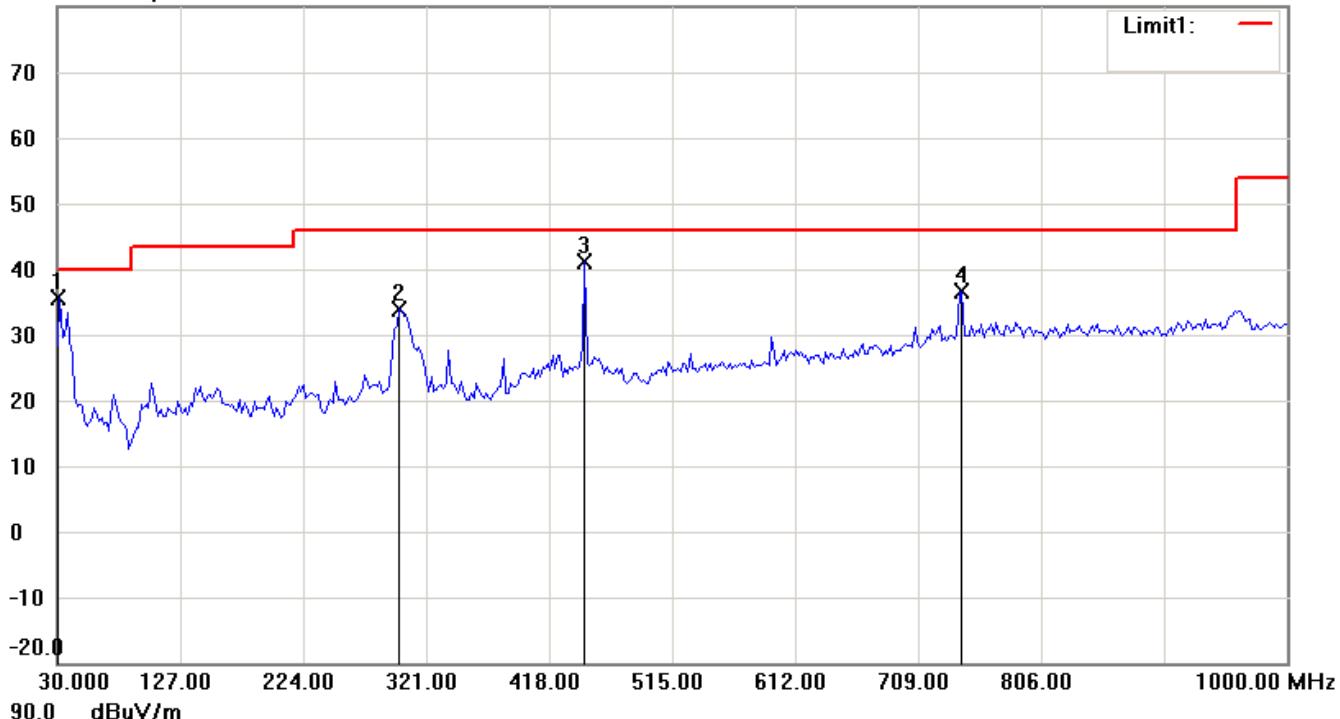
Registration number: W6M21308-13478-C-1

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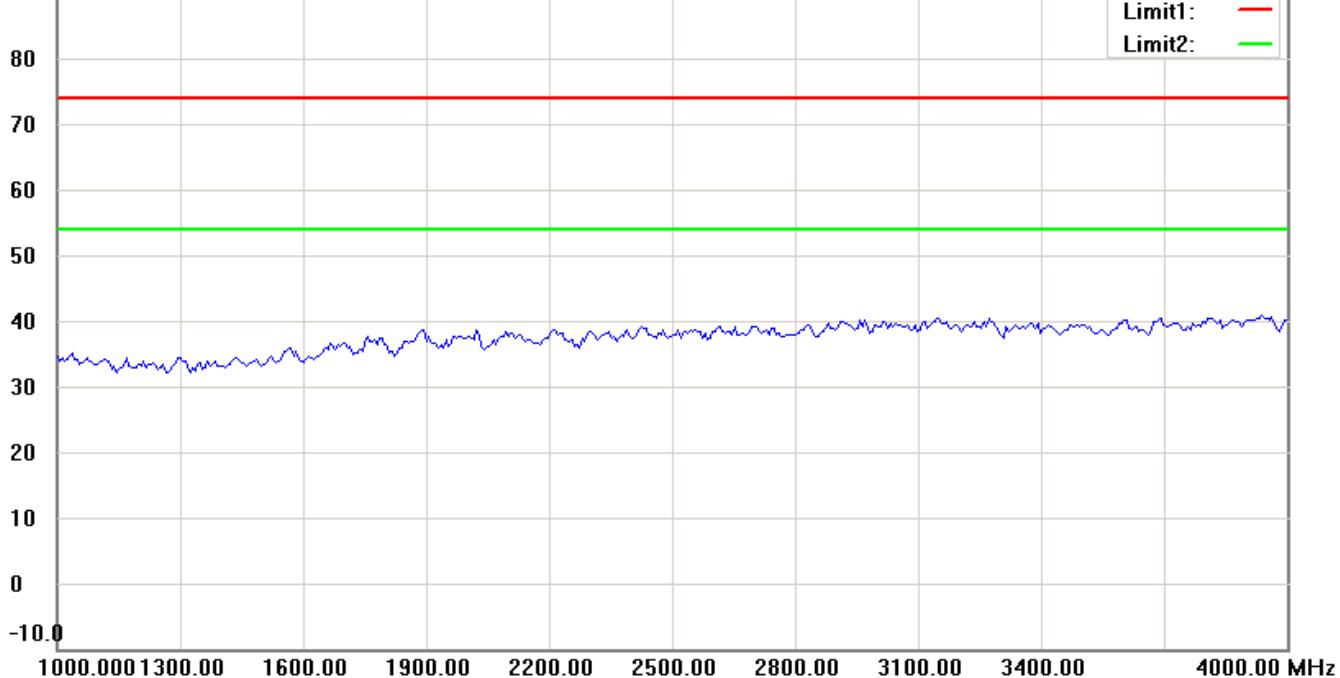
802.11n 40MHz ch159 TX

Antenna Polarization H

80.0 dBuV/m



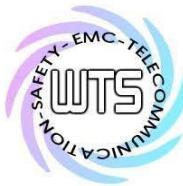
90.0 dBuV/m



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

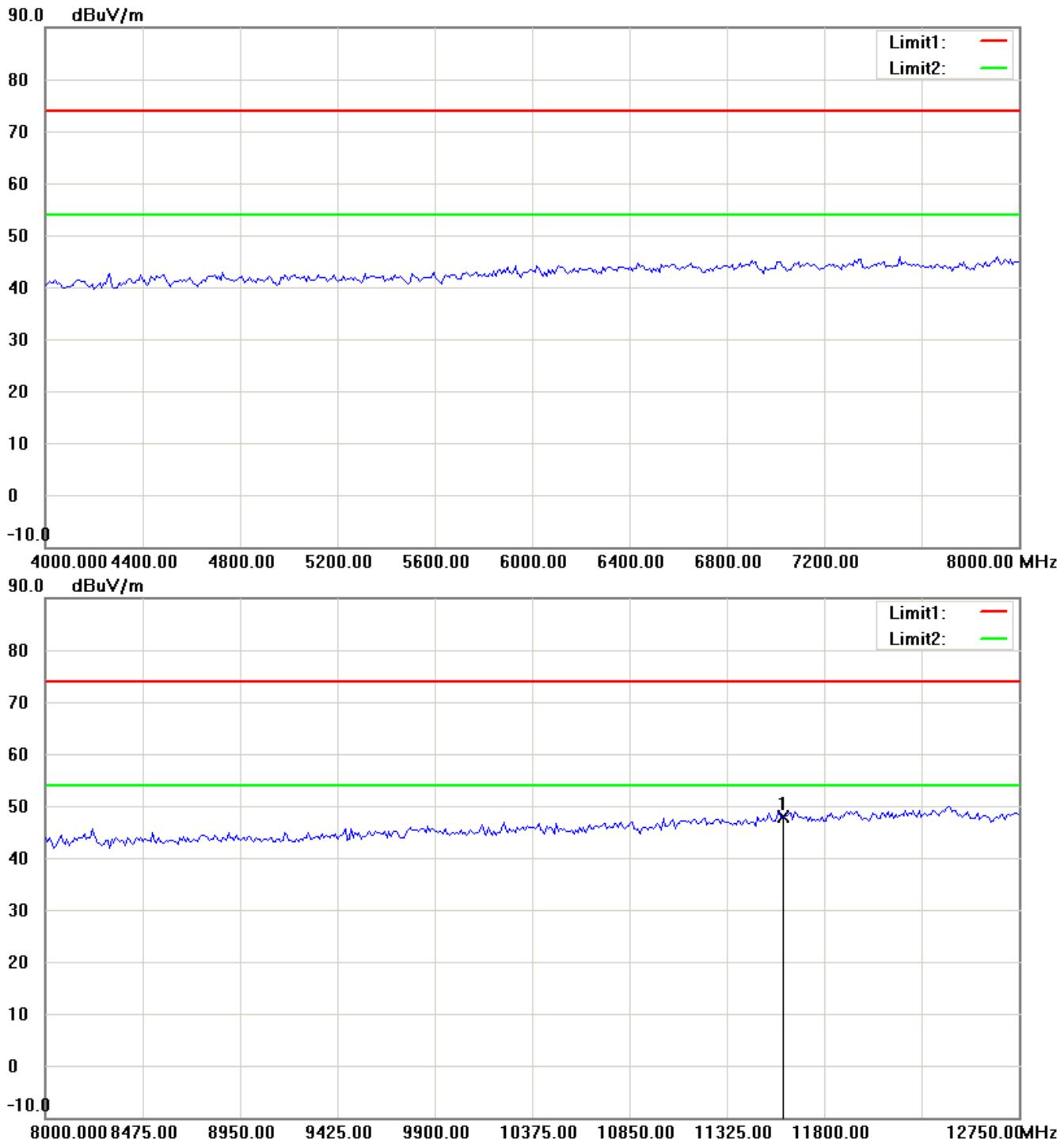
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

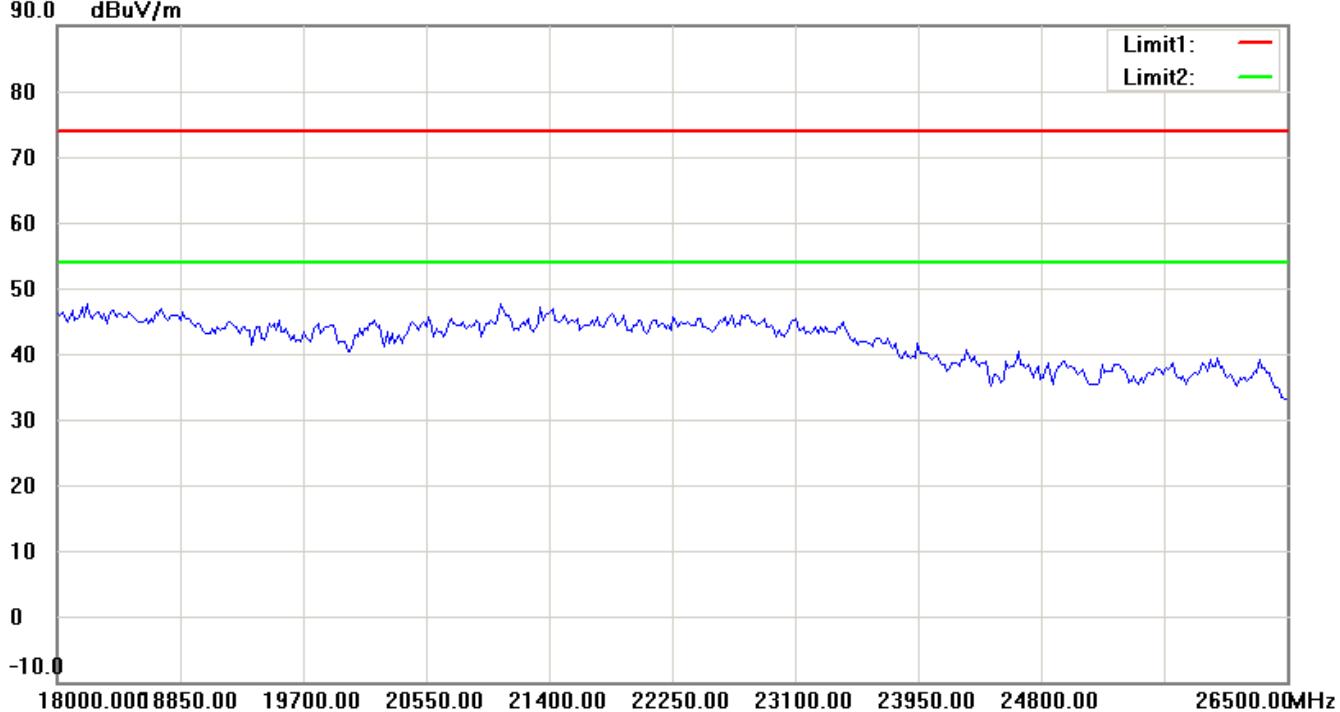
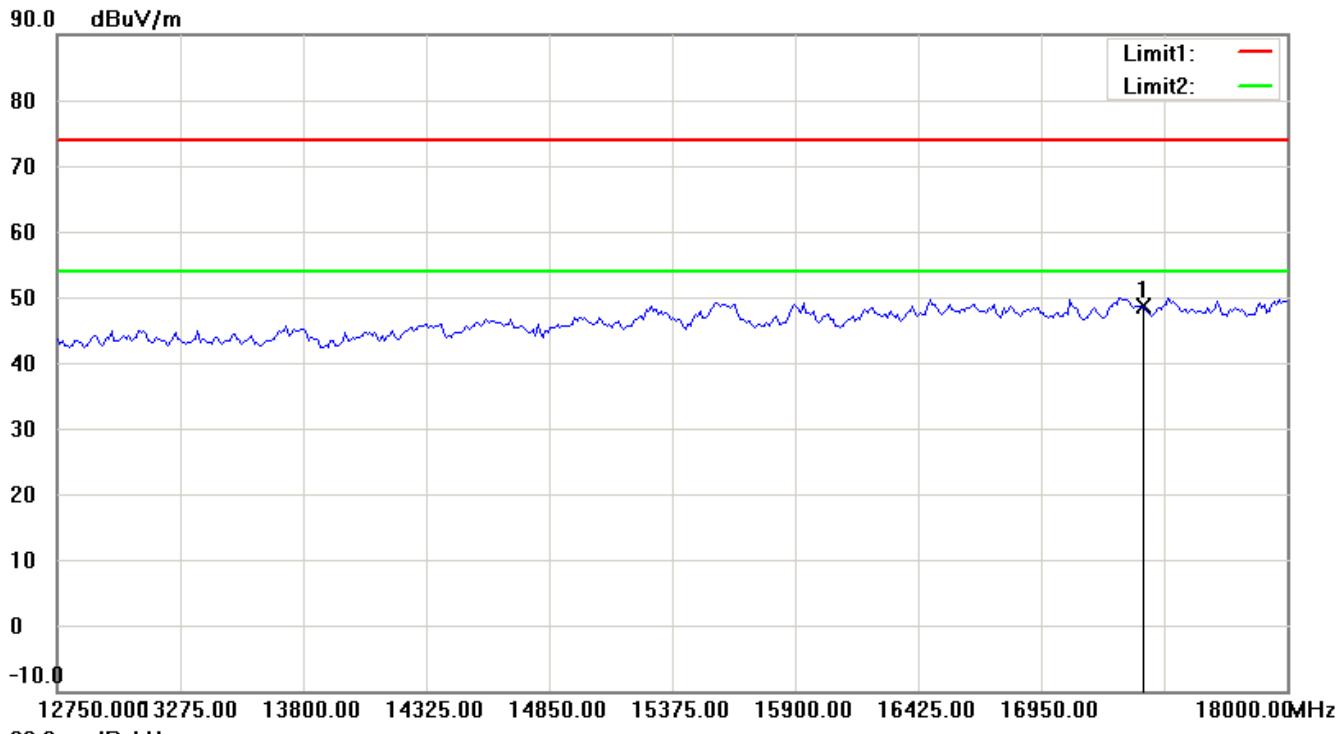
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FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

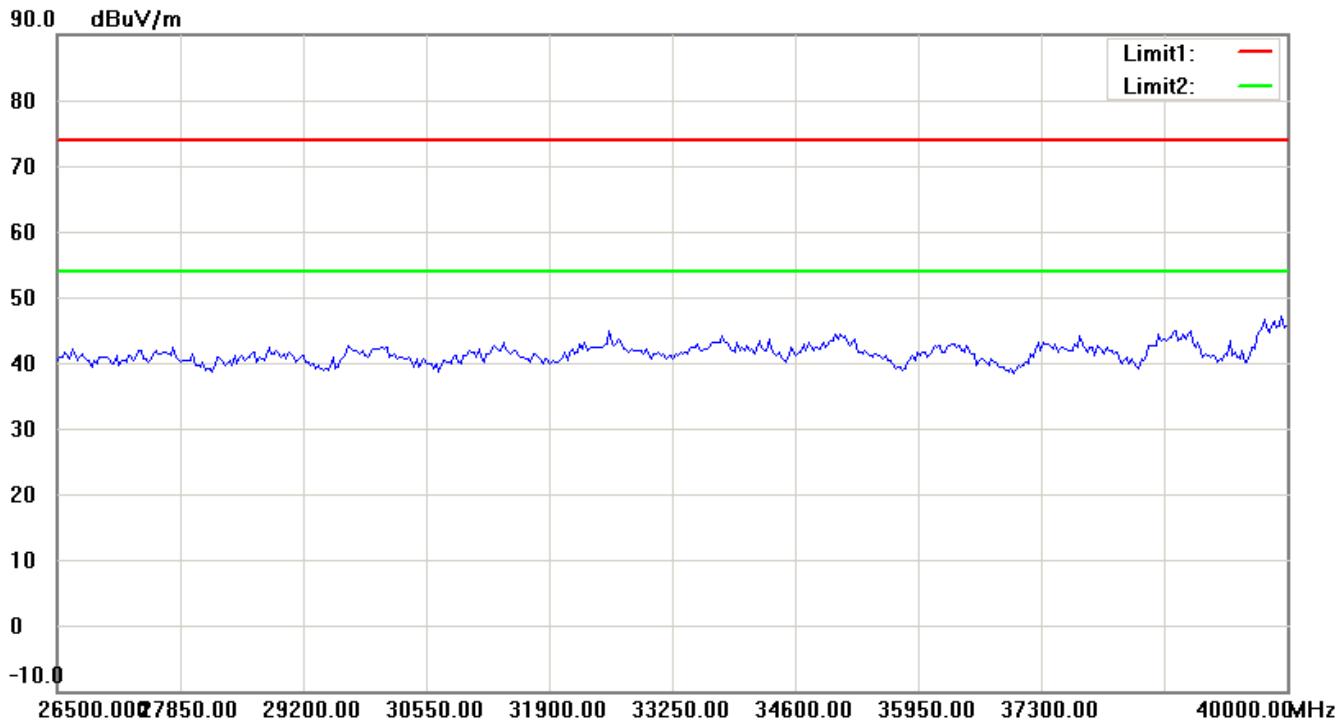
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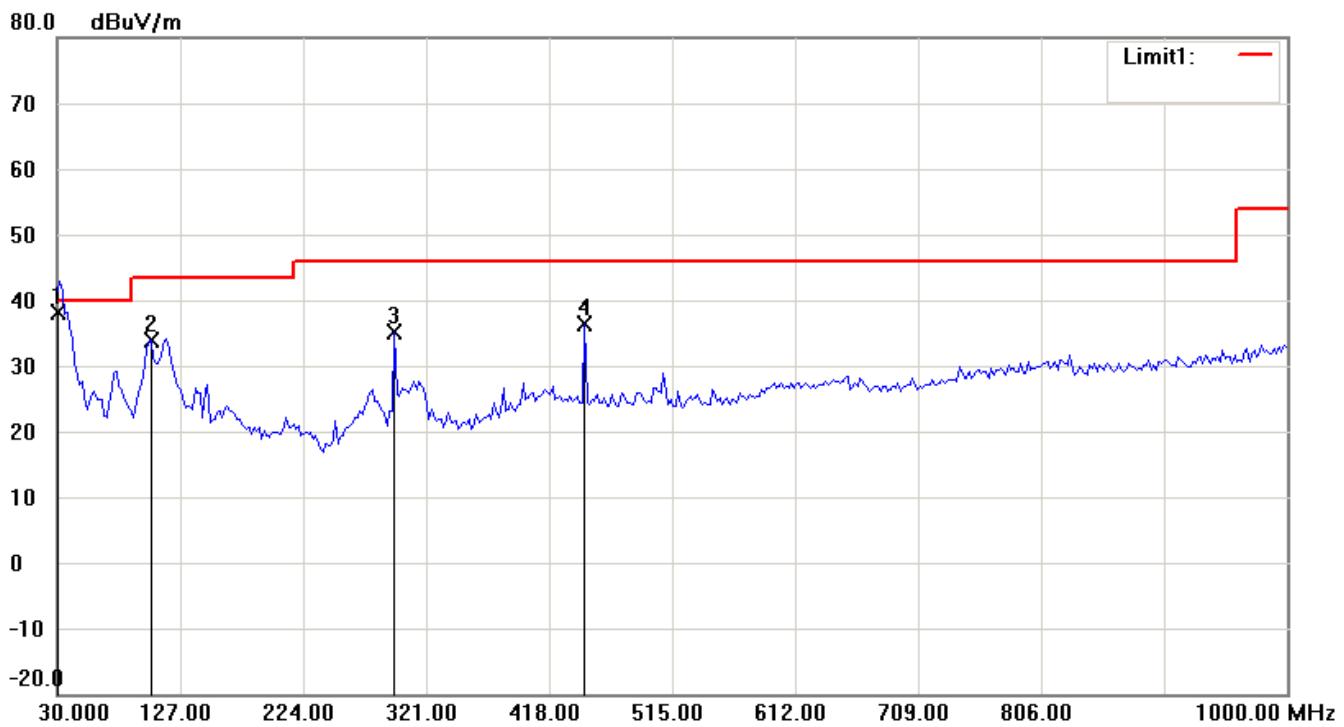
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



## Antenna Polarization V



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

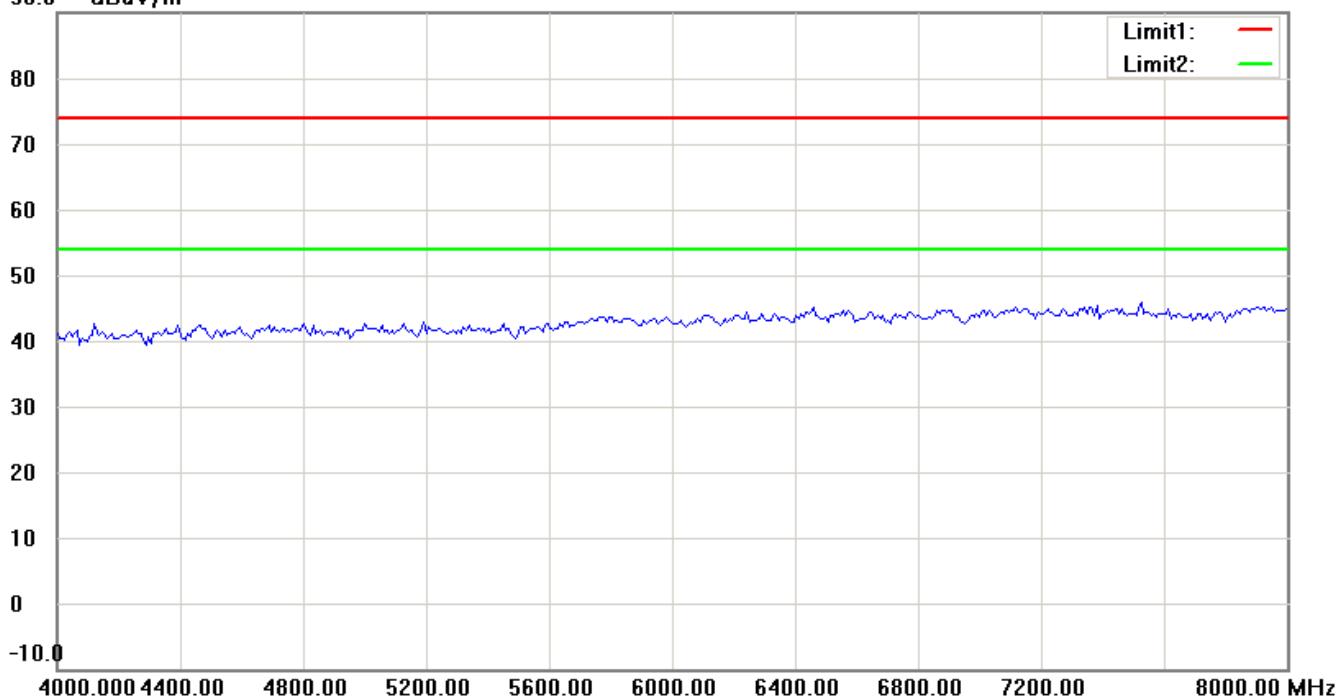
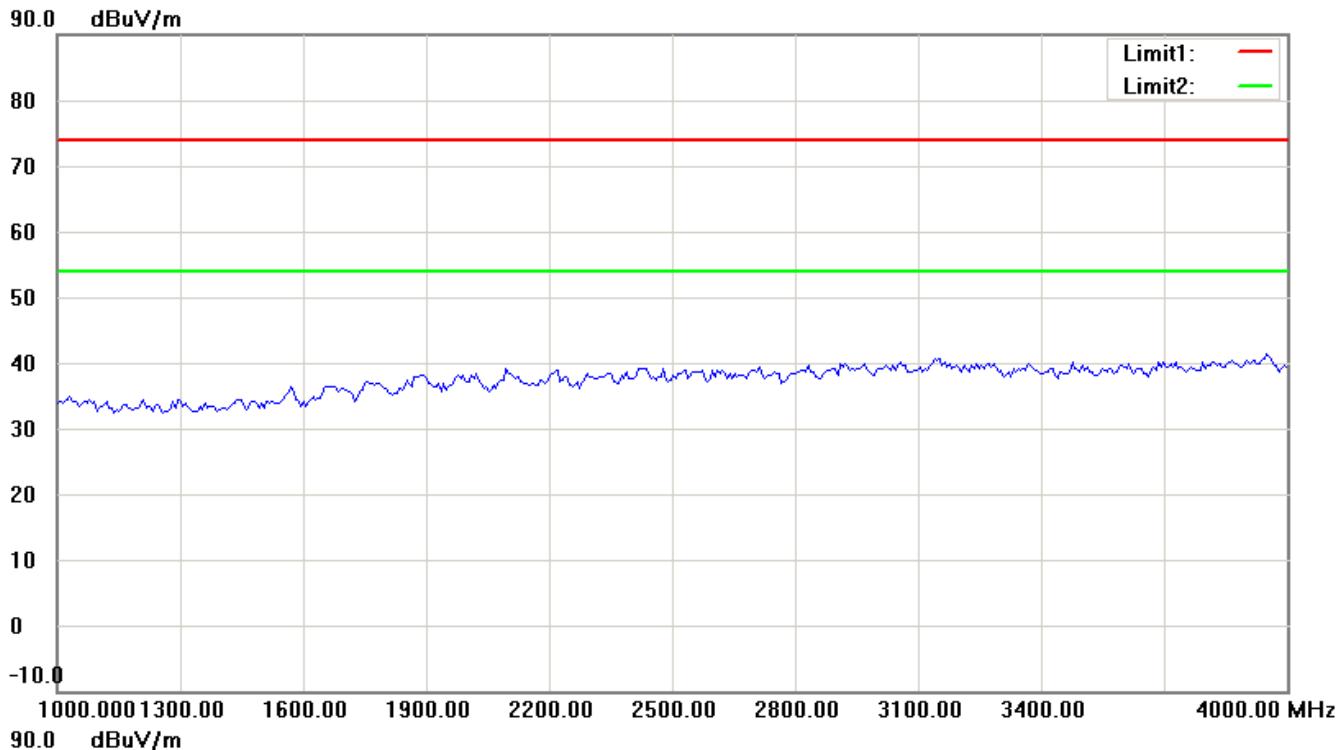
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

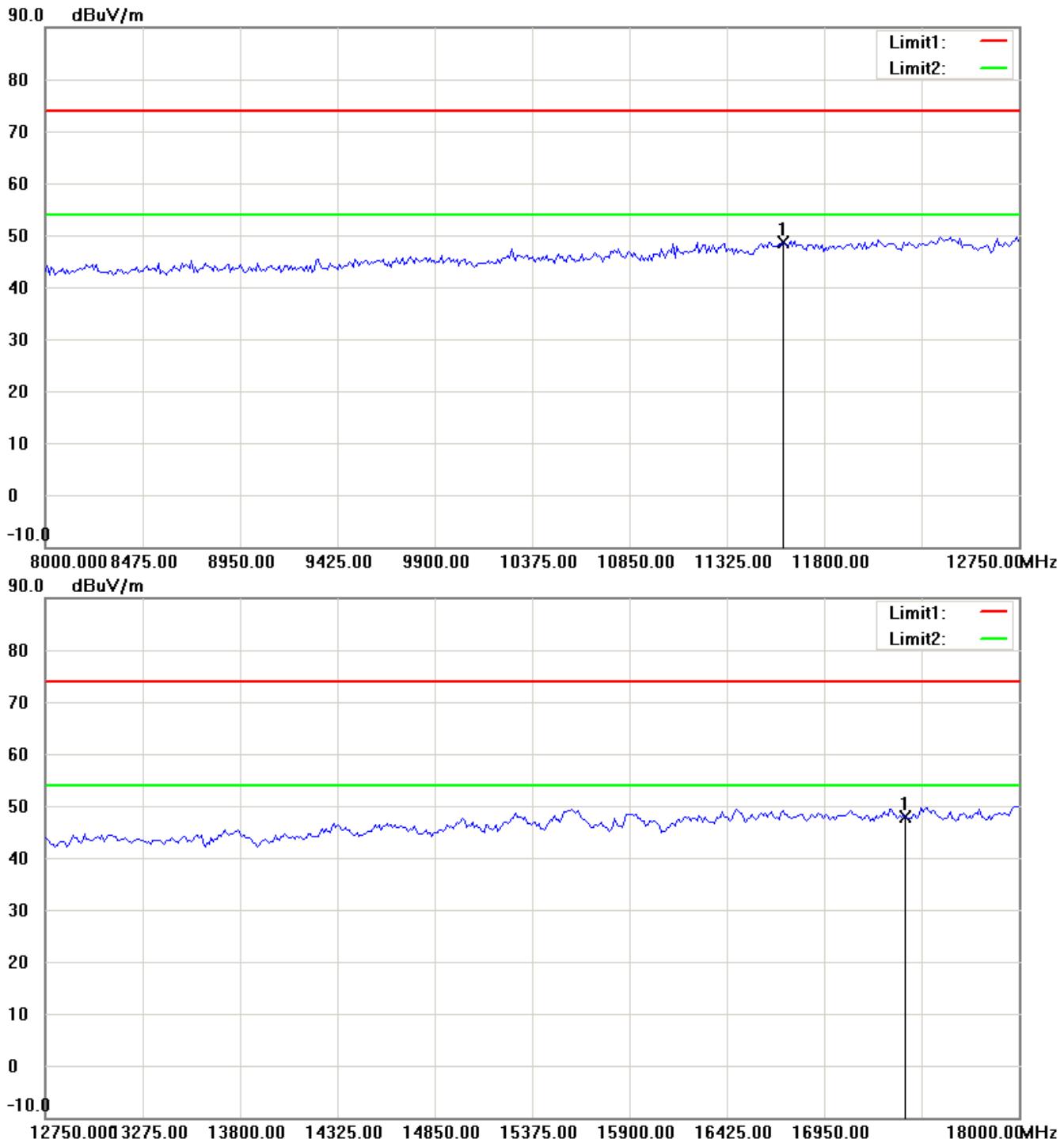
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Registration number: W6M21308-13478-C-1

FCC ID: 2AA4J-W6M2130813478



Up Line: Peak Limit Line Down Line: Ave Limit Line

Note:

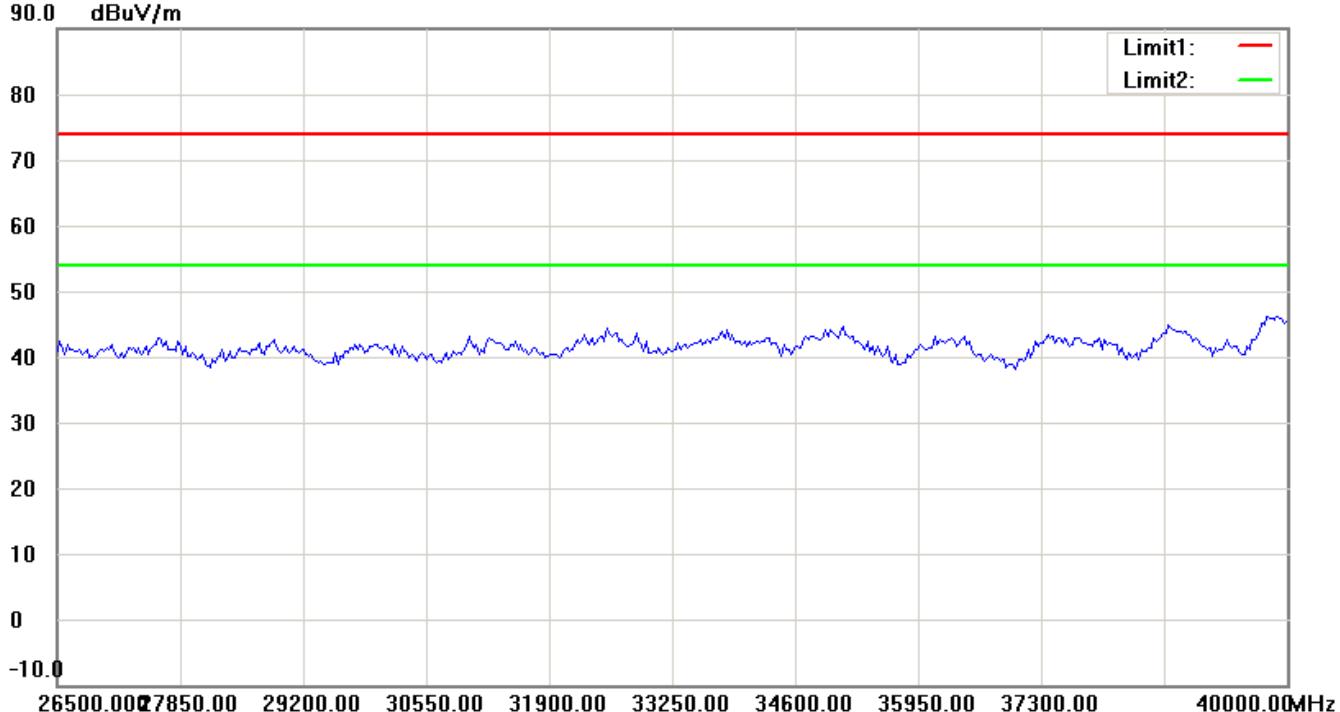
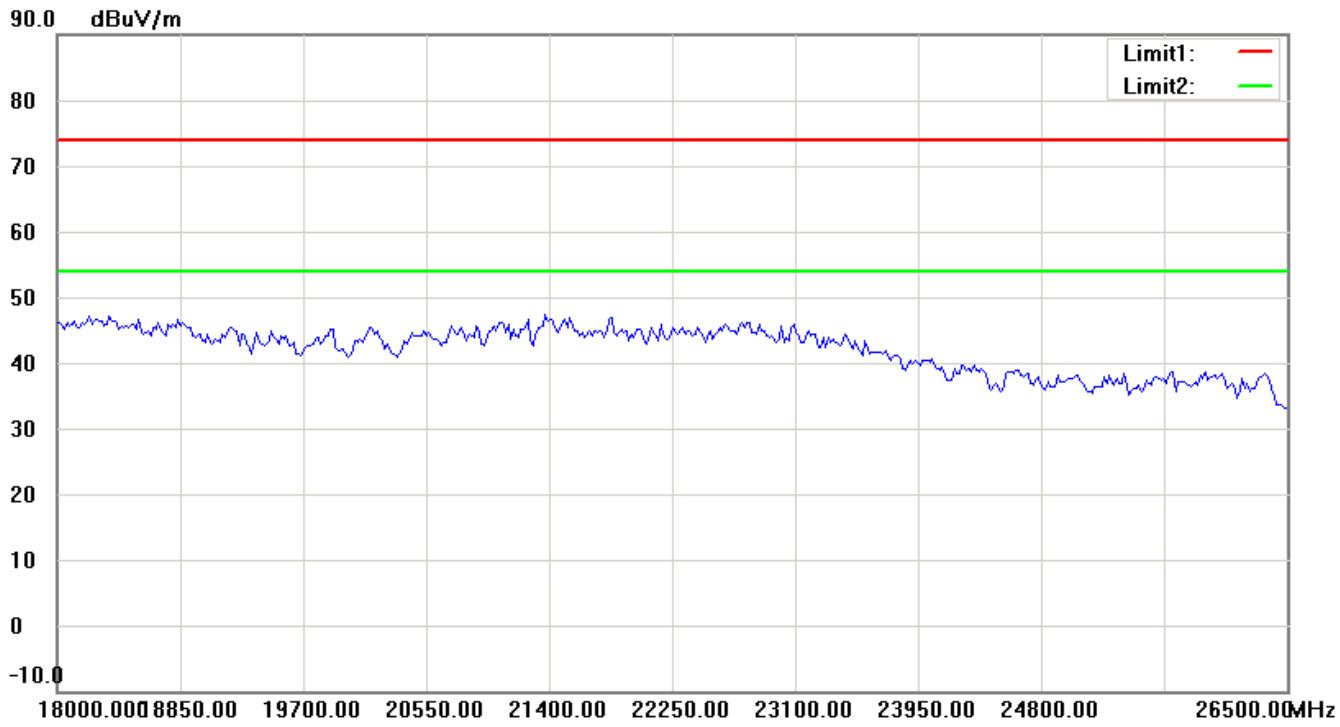
1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification of test standard.
3. For corrected test results are listed in the relevant table of radiated test data of this test report.



# Worldwide Testing Services(Taiwan) Co., Ltd.

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Note:

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