

**FCC PART 15 SUBPART C TEST REPORT**

**for**

**FM WIRELESS TRANSMITTER**

**Model No.: HN-1304**

**FCC ID: T4AHN-1304-1**

**of**

**Applicant: HALLOA ENTERPRISE CO., LTD.**

**Address: Fl. 9, No. 111-33, Sec. 4, San Ho Road, San Chung City,  
Taipei Hsien, 241 Taiwan R. O. C.**

**Tested and Prepared**

**by**

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

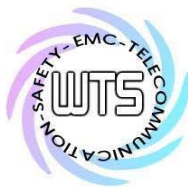
**FCC Registration No.: 930600**

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

**A2LA Accredited No.: 2732.01**

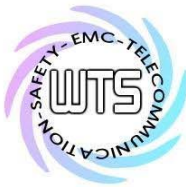
**Report No.: W6R20711-8677-C-1**

6F, NO. 58, LANE 188, RUEY-KUANG RD., NEIHU TAIPEI 114, TAIWAN, R.O.C.  
TEL: 886-2-66068877 FAX: 886-2-66068879 E-mail: [wts@wts-lab.com](mailto:wts@wts-lab.com)



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

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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.

### **Tester:**

June 16, 2008

Jay Chaing

Date

WTS-Lab.

Name

Signature

### **Technical responsibility for area of testing:**

June 16, 2008

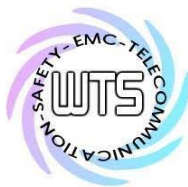
Steven Chuang

Date

WTS

Name

Signature



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

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## **1.2 Testing laboratory**

### **1.2.1 Location**

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

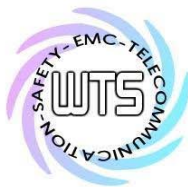
**FCC filed test laboratory Reg. No. 930600**

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

Town:	./.
Country:	./.
Telephone:	./.
Fax:	./.

## **1.3 Details of approval holder**

Name:	HALLOA ENTERPRISE CO., LTD.
Street:	Fl. 9, No. 111-33, Sec. 4, San Ho Road, San Chung City
Town:	Taipei Hsien 241
Country:	Taiwan, R.O.C
Telephone:	+886-2-2286 5678
Fax:	+886-2-2286 9889



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## **1.4 Application details**

Date of receipt of test sample: November 16, 2007  
Date of test: from November 17, 2007 to June 13, 2008

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

Type of test item: FM WIRELESS TRANSMITTER  
Model Number: HN-1304  
Multi-listing model number: without  
Transmitting frequency: 88.1 – 88.9 MHz  
Operation mode: simplex  
Modulation Type: FM  
Voltage supply: DC 12 V  
Channel Numbers: 3  
Frequency of selectable channel: 88.1 MHz / 88.5 MHz / 88.9 MHz  
Antenna Type: 75Ω whip antenna  
Photos: see Appendix

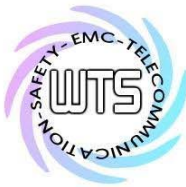
### **Manufacturer:(if applicable)**

Name: HALLOA ENTERPRISE CO., LTD.  
Street: Building B1,haoer Industrial Area Gonghe Industrail Road,  
Shajing Town, Baoan Zone,  
Town: Shenzhen,  
Country: CHINA

## **1.6 Test standards**

Technical standard :

FCC RULES PART 15 SUBPART B § 15.109 / SUBPART C § 15.203, § 15.209, § 15.239 (2007-10)



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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.



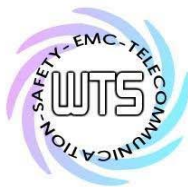
or

The deviations as specified in 3 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
Details of power supply:	DC 12 V



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## 2.3 Test equipment utilized

No.	Test equipment	Type	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2007/10/15	2008/10/14
ETSTW-CE 002	PREREGULATOR MODE DC POWER SUPPLY	None	None		Function Test	
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 004	ZWEILEITER-V-NETZNACHBILDUNG TWO-LINE V-NETWORK	ESH3-Z5	840731/011	R&S	2007/10/15	2008/10/14
ETSTW-CE 005	Line-Impedance Stabilisation Network	NNBM 8126D	137	Schwarzbeck	2007/10/15	2008/10/14
ETSTW-CE 006	IMPULSBEGRENZER PULSE LIMITER	ESH3-Z2	100226	R&S	2008/5/10	2009/5/09
ETSTW-CE 008	ABSORBING CLAMP	MDS 21	3469	Schwarzbeck	2007/10/23	2009/10/22
ETSTW-CE 009	TEMP.&HUMIDITY CHAMBER	GTH-225-40-1P-U	MAA0305-009	GIANT FORCE	2007/8/2	2008/8/1
ETSTW-CE 013	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T4-02	20242	FCC	2007/11/2	2009/11/1
ETSTW-CE 014	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T2-02	20241	FCC	2005/12/7	2008/12/6
ETSTW-CE 015	CISPR 22 TWO BALANCED TELECOM PAIRS IMPEDANCE STABILIZATION NETWORK	FCC-TLISN-T8-02	20307	FCC	2006/11/7	2008/11/6
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2007/10/29	2008/10/28
ETSTW-RE 002	Function Generator	33220A	MY43004982	Agilent	2007/10/12	2009/10/11
ETSTW-RE 003	EMI TEST RECEIVER	ESI 26	831438/001	R&S	2007/12/3	2008/12/2
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2007/10/29	2008/10/28
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2007/10/11	2008/10/12
ETSTW-RE 010	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070181	MOTECH	Function Test	
ETSTW-RE 011	PROGRAMMABLE LINEAR POWER SUPPLY	LPS-305	30503070165	MOTECH	Function Test	
ETSTW-RE 017	Log-Periodic Antenna	HL025	352886/001	R&S	2008/5/5	2010/5/4
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2007/11/7	2010/11/6
ETSTW-RE 020	MICROWAVE HORN ANTENNA	AT4002A	306915	AR	Function Test	
ETSTW-RE 021	SWEEP GENERATOR	SWM05	835130/010	R&S	2007/10/9	2008/10/8
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	EMCO	2007/6/29	2008/6/28
ETSTW-RE 028	Log-Periodic Dipole Array Antenna	3148	34429	EMCO	2008/4/23	2010/4/22
ETSTW-RE 029	Biconical Antenna	3109	33524	EMCO	2008/4/23	2010/4/22
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	EMCO	2008/3/26	2010/3/25
ETSTW-RE 032	Millivoltmeter	URV 55	849086/013	R&S	2007/10/9	2008/10/8
ETSTW-RE 033	WaveRunner 6000A Serise Oscilloscope	WAVERUNNER 6100A	LCRY0604P14508	LeCroy	2007/7/9	2008/7/8
ETSTW-RE 034	Power Sensor	URV5-Z4	839313/006	R&S	2007/10/16	2009/10/15
ETSTW-RE 042	Biconical Antenna	HK116	100172	R&S	2007/1/11	2009/1/10
ETSTW-RE 043	Log-Periodic Dipole Antenna	HL223	100166	R&S	2008/5/2	2010/5/1
ETSTW-RE 044	Log-Periodic Antenna	HL050	100094	R&S	2008/5/22	2010/5/21



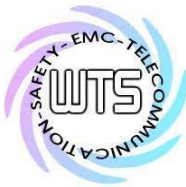
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ETSTW-RE 047	ESA-E SERIES SPECTRUM ANALYZER	E4445A	MY46181369	Agilent	2007/7/19	2008/7/18
ETSTW-RE 048	Triple Loop Antenna	HXYZ 9170	HXYZ 9170-134	Schwarzbeck	2005/3/22	2009/3/21
ETSTW-RE 049	TRILOG Super Broadband test Antenna	VULB 9160	9160-3185	Schwarzbeck	2007/5/2	2009/5/1
ETSTW-RE 055	SPECTRUM ANALYZER	FSU-26	200074	R&S	2007/7/16	2008/7/15
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2007/7/2	2009/7/1





## **2.4 General Test Procedure**

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

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

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

Example:

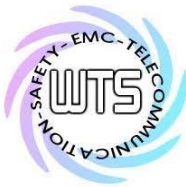
Freq (MHz)	METER READING + ACF + CABLE LOSS (to the receiver) = FS
33	20 dB $\mu$ V + 10.36 dB + 6 dB = 36.36 dB $\mu$ V/m @3m

The 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 C63.4-2003 Section 13.1.2. The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to the frequency specified as follows:

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

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

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



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

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

The formula is as follows:

Average = Peak + Duty Factor

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

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



## 2.5 Product Description and System Test Configuration

### 2.5.1 Production Description

This Equipment Under Test (EUT) is a FM wireless transmitter which can be operated from 88.1 to 88.9 MHz. The main function of this EUT is used to encode analog signal to become FM code, and control the transmitter frequency to the radio receivers and broadcast. Because of this function, it could be used to read MP3 file of USB storage device to play music. This transmitter is fed by 12V car power supply.

### 2.5.2 System Test Configuration

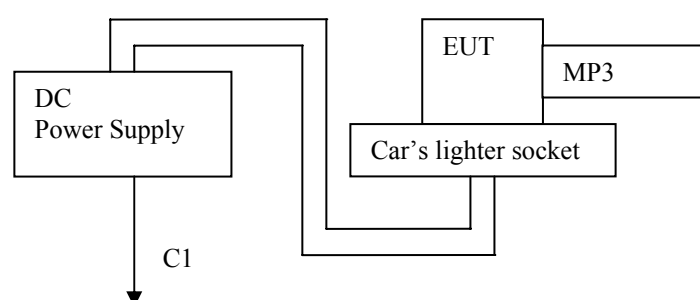
#### 2.5.2.1 Supported Ancillary Equipment

Item	Name of Equipment	Manufacturer	Model Number	FCC ID	Note
1	MP3 Player	A-DATA	My-Flash	N/A	N/A
2	DC Power Supply	ABM	9306D	N/A	N/A
3	Car's light socket	N/A	N/A	N/A	N/A

#### 2.5.2.2 The relevant cables of Supported Ancillary Equipment

Item	Name of Cables	Shielded Used	Ferrite Used	Length	Note
C1	Power Cord	Non-Shielded	Non-Ferrite	1.0m	Detachable

#### 2.5.2.3 Setup Configuration



#### 2.5.2.4 Description of Test Mode

The system was configured for testing in a typical arrangement as the manufacturer's declaration. During the test, the MP3 player played music and set the volume to the maximum level. There was no special software to be exercised during the test.

There are three channels on EUT, and the operating frequency range of EUT is from 88.1 MHz to 88.9 MHz. We choose the middle channel (88.5 MHz) for main final test, except choosing the lowest channel (88.1 MHz) for Band Edge testing.

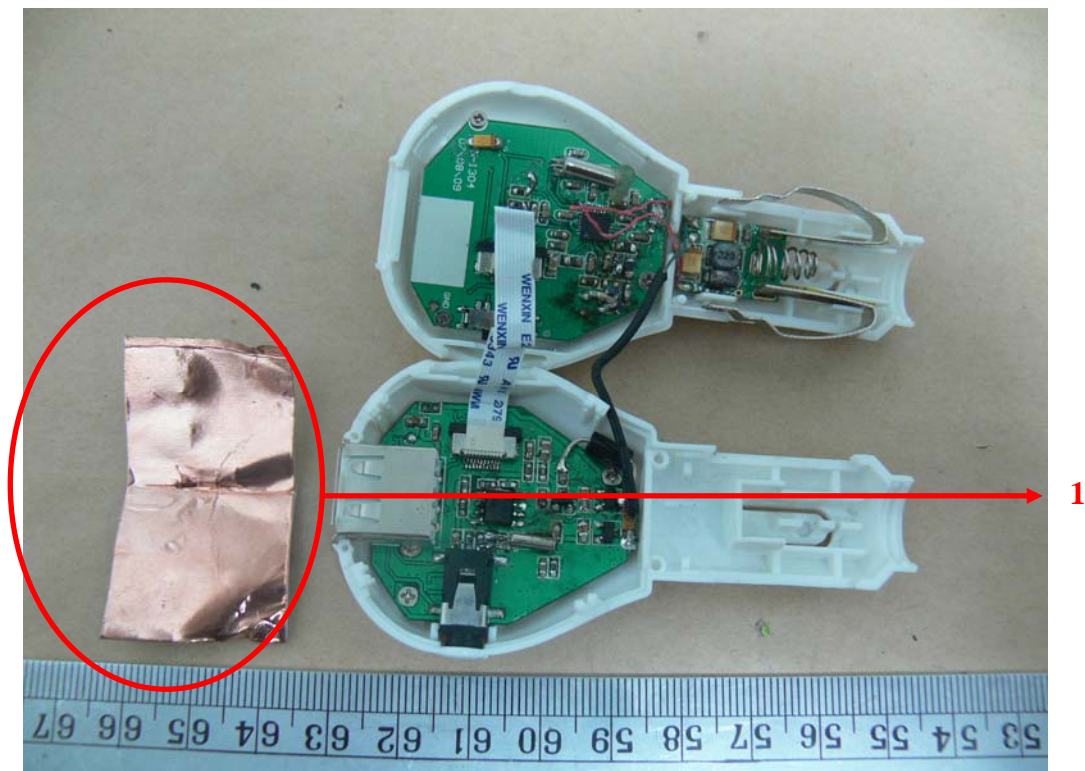
Registration number: W6R20711-8677-C-1  
FCC ID: T4AHN-1304-1

## **2.6 The Description of Modification**

The testing was passed only under the specific modification condition as below:

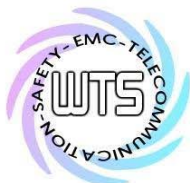
Item	Component	Quantity	Model No.	Specification	Manufacturer
1	aluminium foil	1	N/A	45x25x0.04mm	EMICRONIX TECHNOLOGY CO.,LTD

The detail position information of the modified components is referred to below picture.



Any modification made previous to test by HALLOA ENTERPRISE CO., LTD. will be incorporated in each product sold in the United States.

No modification was made by Worldwide Testing Services(Taiwan) Co., Ltd.



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**3 Test results (enclosure)**

TEST CASE	Required	Test passed	Test failed
Emission bandwidth 15.239 (a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Band Edge Measurement 15.239 (a)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Carrier (Field Strength) 15.239 (b)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions 15.239 (c)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Line Conducted Emission 15.207	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

***Note: The lowest channel is 88.1 MHz and the highest channel is 88.9 MHz. The tuning control were manually adjusted to verify maximum tuning range.***

(The follows is intended to leave blank.)



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### **3.1 Emission Bandwidth**

FCC Rule: 15.239(a)

Test condition		Detector	Bandwidth (kHz)	Limit (kHz)
$T_{nom} = 23^{\circ}C$	$V_{nom} = 12\ V$	Peak	131.26252505	200

Limit: 15.239(a)

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 029, ETSTW-RE 042

Explanation: See attached diagrams as Appendix.



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### **3.2 Band Edge Measurement**

FCC Rule: 15.239(a)

<b>Channel</b>	<b>Frequency MHz</b>	<b>Detector</b>	<b>Test Results (dB<math>\mu</math>V/m)</b>	<b>Limit (dB<math>\mu</math>V/m)</b>
Lower Band-edge	88.1	Peak	36.90	40
Upper Band-edge	88.9	Peak	--	40

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 029, ETSTW-RE 042

Explanation: Before testing, the tuning control were manually adjusted to verify maximum tuning range. The lowest channel is 88.1 MHz and the highest channel is 88.9 MHz.  
For Band edge Measurement, the Upper Band-edge is not required because the highest operational frequency ( 88.9 MHz ) is much far from the 108 MHz. See attached diagrams as Appendix.





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### **3.3 Carrier ( Field Strength)**

FCC Rule: 15.239(b) , 15.35

Model: HN-1304                      Date: 2008/6/10  
Mode: TX POWER                      Temperature: 26 °C    Engineer: Danny  
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)
88.503	30.32	peak	10.37	40.69	47.90	-7.21	115	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
88.505	31.72	peak	10.37	42.09	47.90	-5.81	120	150

Limit:

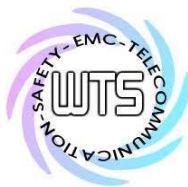
15.239(b)

The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter ( 47.90 dBuV/m ) at 3 meters.

Test equipment used: ETSTW-RE 003, ETSTW-RE 004, ETSTW-RE 029, ETSTW-RE 042

Explanation: In this case, the average limit is met when using a peak detector, the EUT shall be deemed to meet both limits of peak and average and measurement with the average detector is unnecessary. See attached diagrams as Appendix.





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## **3.4 Spurious Emission**

FCC Rules: 15.239 (c), 15.209

Radiated emission measurements were performed from 30 MHz to 1000 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: 10Hz (Average measurements)

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

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

### **Summary table with radiated data of the test plots**

Model: HN-1304 Date: 2008/6/10  
Mode: TX Temperature: 26 °C Engineer: Danny  
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)
177.174	27.29	peak	14.28	41.57	43.50	-1.93	110	150
240.481	27.88	peak	13.58	41.46	46.00	-4.54	115	150
265.912	23.69	peak	14.30	37.99	46.00	-8.01	120	150
353.307	15.94	peak	16.58	32.52	46.00	-13.48	120	150
441.683	13.02	peak	18.77	31.79	46.00	-14.21	130	150
531.463	16.67	peak	20.33	37.00	46.00	-9.00	125	150

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
177.174	22.59	peak	14.28	36.87	43.50	-6.63	110	150
240.481	22.46	peak	13.58	36.04	46.00	-9.96	115	150
265.912	20.17	peak	14.30	34.47	46.00	-11.53	120	150
353.307	16.22	peak	16.58	32.80	46.00	-13.20	125	150
441.683	16.57	peak	18.77	35.34	46.00	-10.66	120	150
531.463	17.66	peak	20.33	37.99	46.00	-8.01	120	150

- 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. **See the attached diagram as appendix.**



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Limits: 15.209

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 960	500	54.0

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



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### **3.5 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.

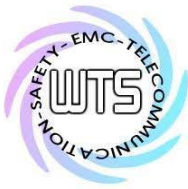
This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.

#### **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 003, ETSTW-CE 004, ETSTW-CE 006

Explanation: For battery operated device, this test item is not applicable.



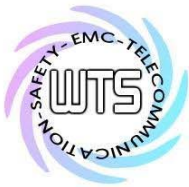
## **Appendix**

### **A Measurement diagrams**

1. Emission Bandwidth
2. Band Edge Measurement
3. Carrier Field Strength
4. Spurious Emissions

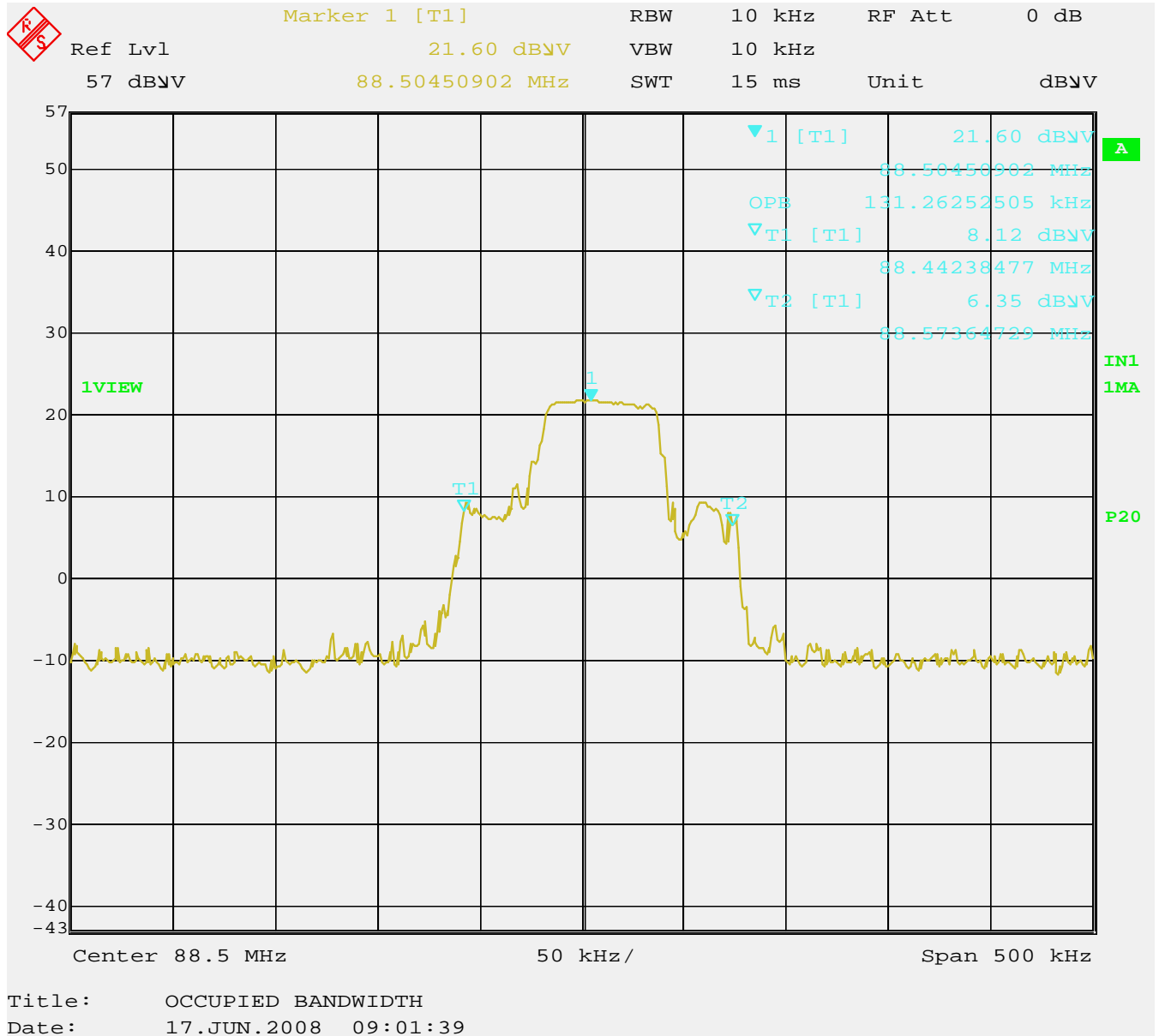
### **B Photos**

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



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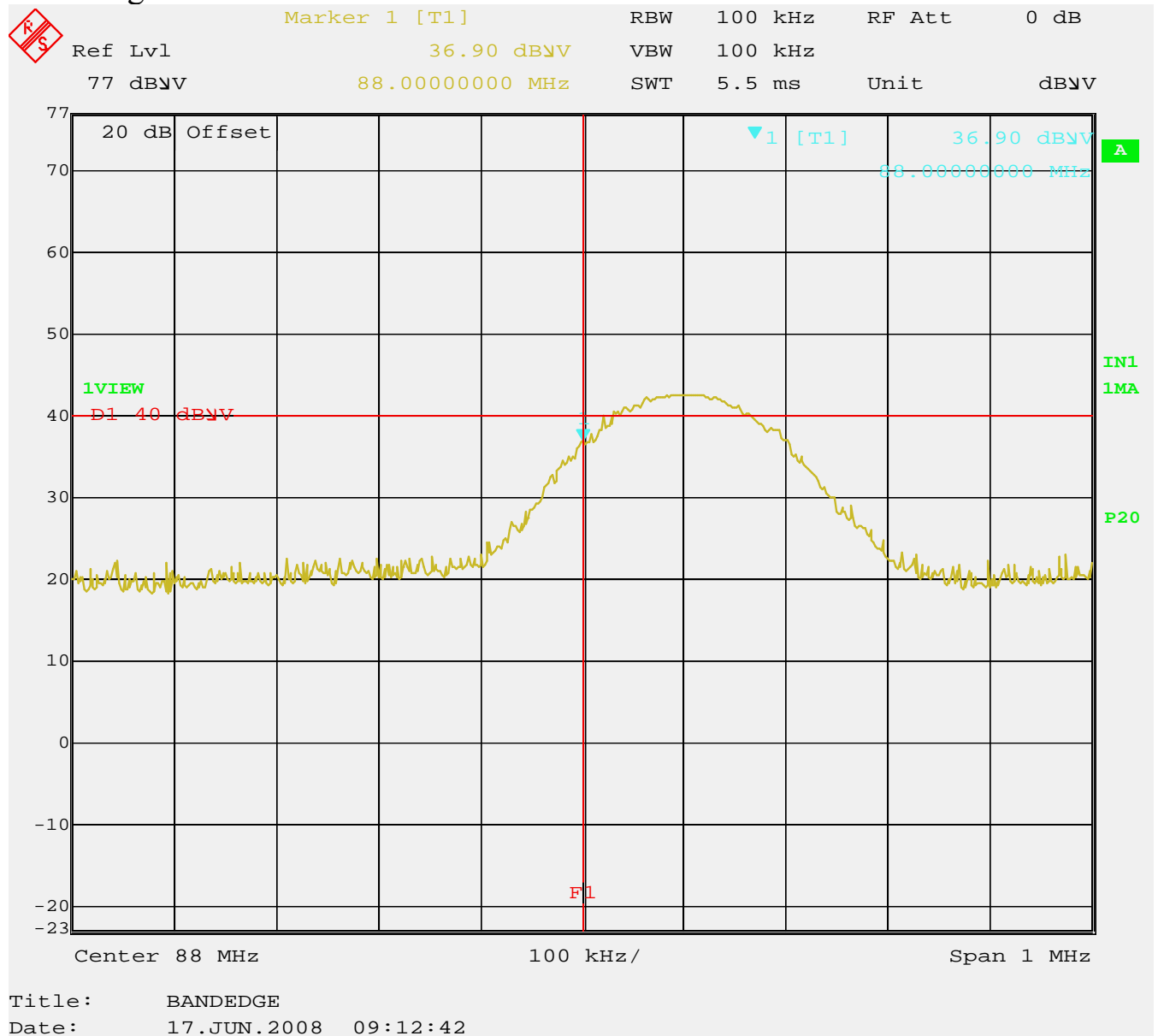
### Emission Bandwidth

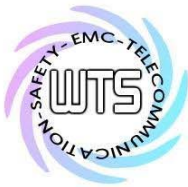




Registration number: W6R20711-8677-C-1  
FCC ID: T4AHN-1304-1

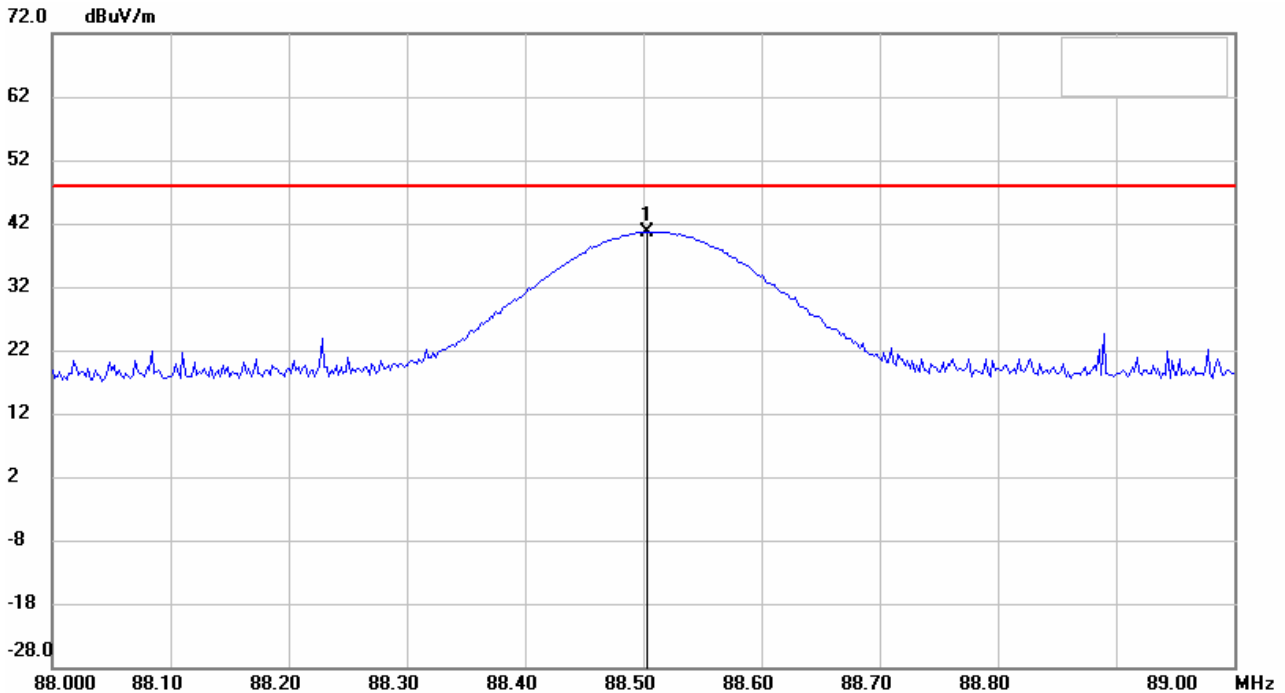
## Band Edge Measurement



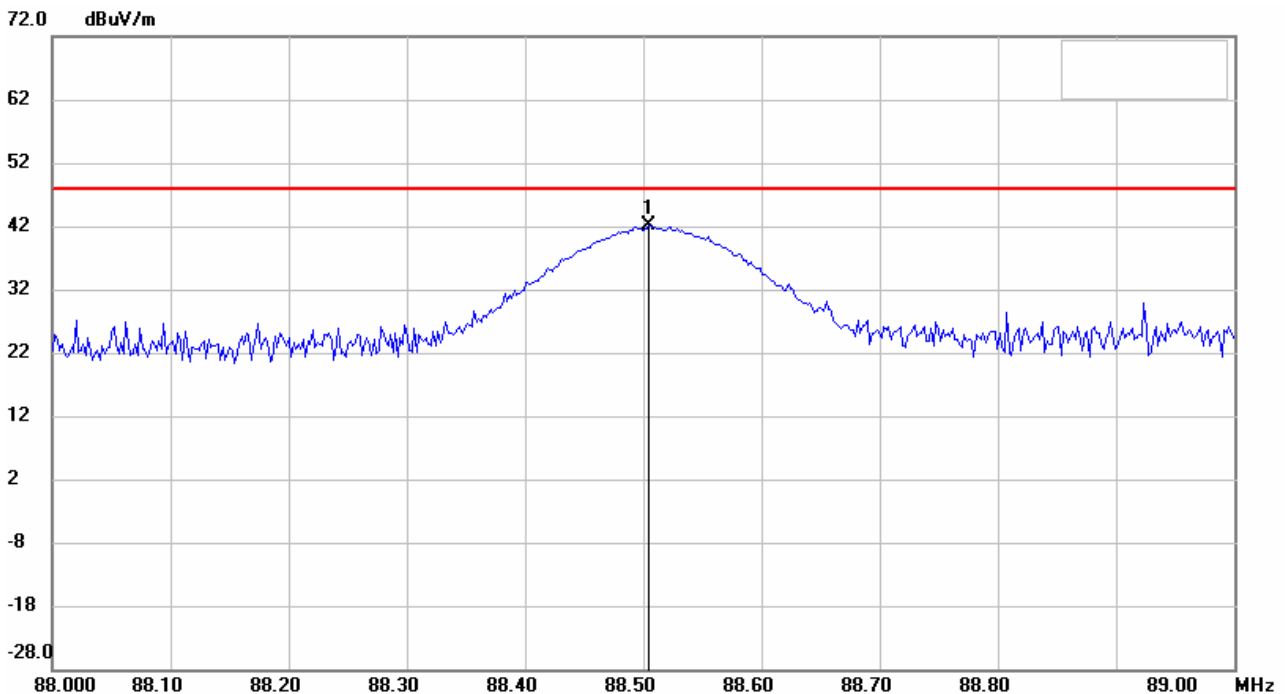


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## Carrier Field Strength Antenna Polarization H

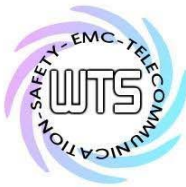


## Antenna Polarization V



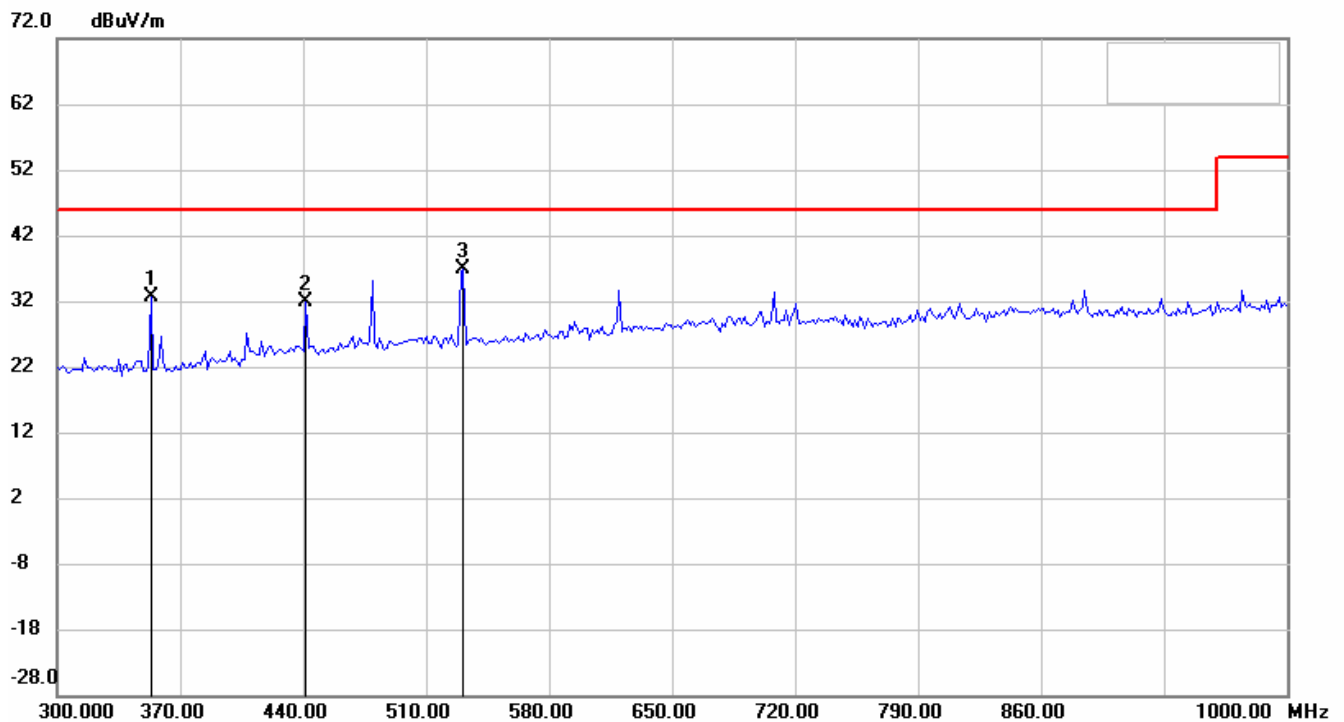
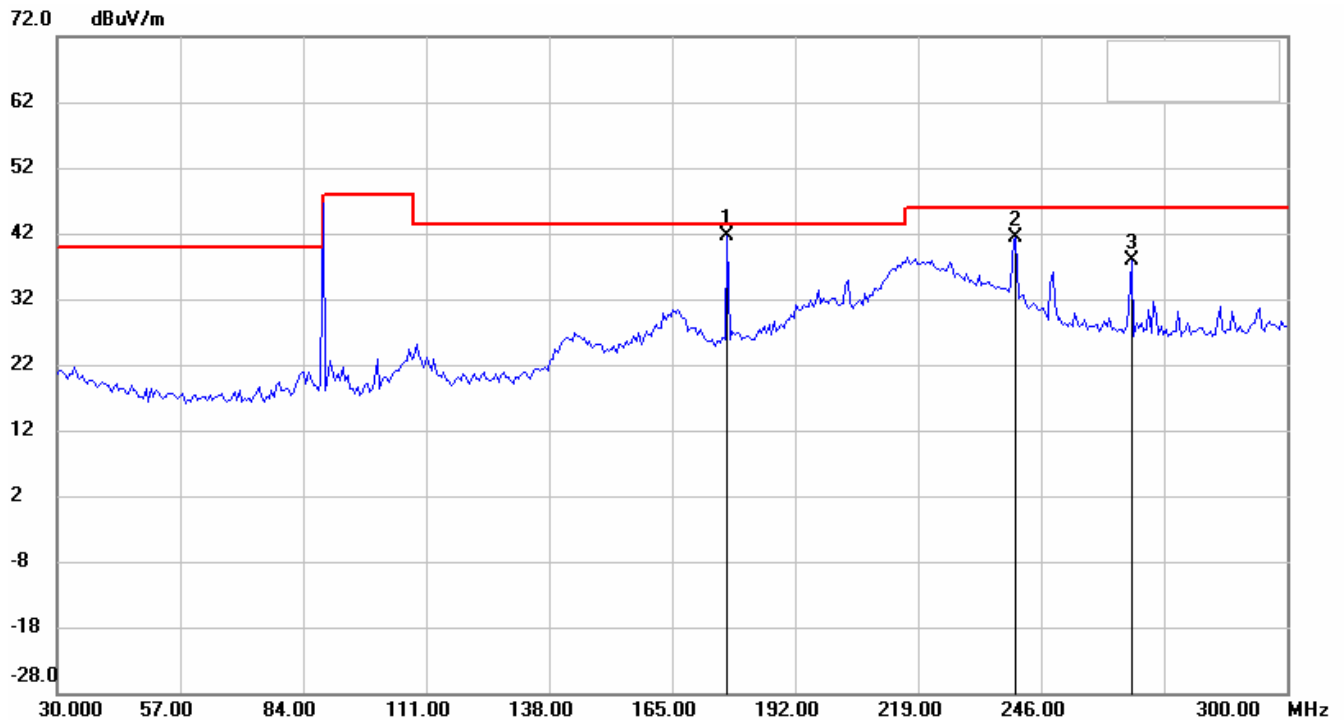
### Note:

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 Carrier Field Strength test data of this test report.



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## Spurious Emissions Antenna Polarization H

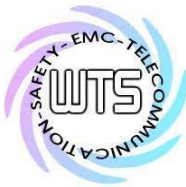


## Antenna Polarization V

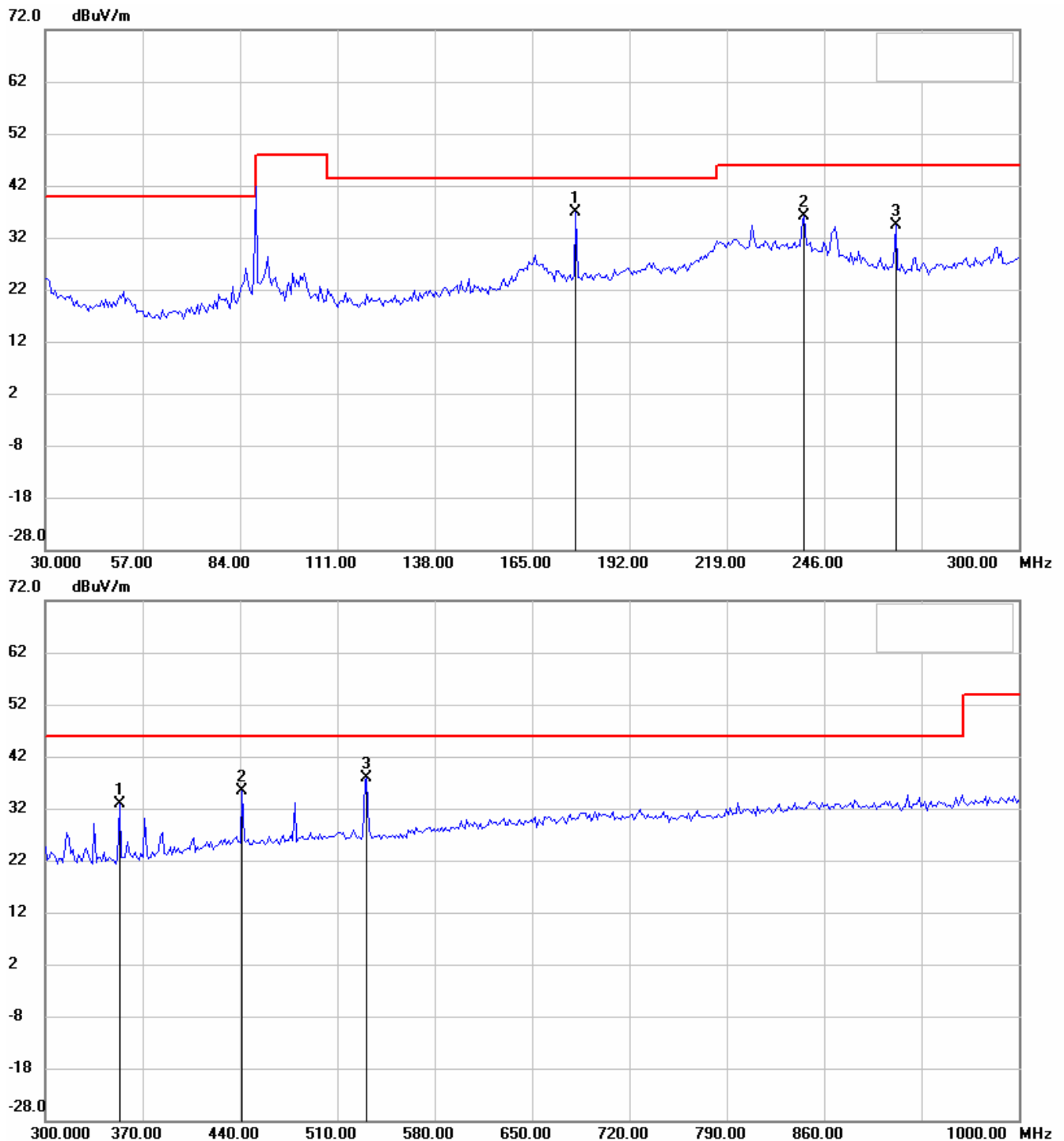
### Note:

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.





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**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.