# FCC PART 15 SUBPART C TEST REPORT

for

**Wireless Microphone System** 

**Model No.: WMICG4-CU** 

FCC ID: ZPJ-WMICG4-CU

of

Applicant: Coban Technologies, Inc
Address: 11375 W. Sam Houston Parkway S. # 800 Houston Texas
77031 United States

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.: W6M21304-13153-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

FCC ID: ZPJ-WMICG4-CU

# TABLE OF CONTENTS

1	GEN	ERAL INFORMATION	2
1.	.1	Notes	2
1.	.2	TESTING LABORATORY	3
	1.2.1	Location	3
	1.2.2	Details of accreditation status	3
1.	.3	DETAILS OF APPROVAL HOLDER	3
1.	4 .	APPLICATION DETAILS	4
1.	.5	GENERAL INFORMATION OF TEST ITEM	4
1.	.6 '	Test standards	5
2	TECI	HNICAL TEST	6
2.	.1	SUMMARY OF TEST RESULTS	6
2.	2	TEST ENVIRONMENT	6
2.	.3	TEST EQUIPMENT LIST	7
2.	4	GENERAL TEST PROCEDURE	9
3	TEST	RESULTS (ENCLOSURE)	.11
3.	.1	PEAK OUTPUT POWER (TRANSMITTER)	.12
3.	2	EQUIVALENT ISOTROPIC RADIATED POWER	.16
3.	.3	RF Exposure Compliance Requirements	.16
3.	4 '	Transmitter Radiated Emissions in Restricted Bands	.17
3.	.5	SPURIOUS EMISSIONS (TX)	.18
3.	6	RADIATED EMISSION ON THE BAND EDGE	.24
3.	7	MINIMUM 6 DB BANDWIDTH	.27
3.	.8	PEAK POWER SPECTRAL DENSITY	.31
3.	9	RADIATED EMISSION FROM DIGITAL PART	.35
3.	10	Power Line Conducted Emission	.36
A PI	PEND	IX.	38

FCC ID: ZPJ-WMICG4-CU

### 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 is 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:

**Tester:** 

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.

September 02, 2013		Robert Ren	Holert Kon
Date	WTS-Lab.	Name	Signature

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

September 02, 2013		Kevin Wang	Kevin voug
Date	WTS	Name	Signature

In Jana



Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

## 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: Coban Technologies, Inc

Street: 11375 W. Sam Houston Parkway S. # 800

Town: Houston Texas 77031

Country: United States
Telephone: 2812778288
Fax: 2812778256

Registration number: W6M21304-13153-C-1 FCC ID: ZPJ-WMICG4-CU

#### **Application details** 1.4

Date of receipt of test item:	April 26, 2013
Date of test:	from April 29, 2013 to August 29, 2013
1.5 General information of	Test item
Type of test item:	Wireless Microphone System
Model Number:	WMICG4-CU
Brand Name:	/.
Multi-listing model number:	/.
Photos:	see Appendix
Technical data	
Frequency band:	902 MHz – 928 MHz
Frequency (CH 1):	904.2 MHz
Frequency (CH 10):	915 MHz
Frequency (CH 19):	925.8 MHz
Number of Channels:	19
Operation modes:	duplex
Modulation Type:	OQPSK
Fixed point-to-point operation:	☐ Yes / ⊠ No
Type of Antenna:	Monopole Antenna
Antenna gain:	3.05 dBi (T1 antenna & T2 antenna)
Power supply:	DC 12V

1M85G1D

Emission designator:



Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

Host device: none

Classification :

Fixed Device	
Mobile Device (Human Body distance > 20cm)	
Portable Device (Human Body distance < 20cm)	

<u>Transmitter</u> <u>Unom</u>

T1 Antenna

Power ( CH 1): Conducted: 24.53 dBm Power ( CH 10): Conducted: 24.47 dBm Power ( CH 19): Conducted: 24.22 dBm

T2 Antenna

Power ( CH 1): Conducted: 21.08 dBm Power ( CH 10): Conducted: 21.19 dBm Power ( CH 19): Conducted: 20.87 dBm

Manufacturer: (if applicable)

Name: Shenzhen Honmax Technology Limited

Street: 6/F., Block B, Productivity Building, No.5 Gaoxin 2nd

Avenue, High-tech Park, Nanshan District,

Town: Shenzhen,

Country: PRC

Additional information: ./.

### 1.6 Test standards

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

FCC ID: ZPJ-WMICG4-CU

### 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: DC 12V

Extreme conditions parameters: ./.



FCC ID: ZPJ-WMICG4-CU

# 2.3 Test Equipment List

No.	Test equipment	Туре	Serial No.	Manufacturer	Cal. Date	Next Cal. Date
ETSTW-CE 001	EMI TEST RECEIVER	ESHS10	842121/013	R&S	2012/9/5	2013/9/4
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function	on 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-te	st Use
ETSTW-CE 008	HF-EICHLEITUNG RF STEP ATTENUATOR 139dB DPSP	334.6010.02	844581/024	R&S	Function	on 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	2012/9/5	2013/9/4
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2012/9/5	2013/9/4
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function	on Test
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function	on Test
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	2012/10/12	2013/10/11
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-te	st 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	on Test
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	EMCO	Function	on Test
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2012/10/5	2013/10/4
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2012/10/12	2013/10/11
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	Schwarz beck	2012/12/13	2013/12/12
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	None	T-Power	Functi	on 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	Functi	on test



Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

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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	2012/10/5	2013/10/4
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	2012/9/18	2013/9/17
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	2012/10/12	2013/10/11
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2012/10/12	2013/10/11
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_EMC	None	Farad	Version I	ETS-03A1

FCC ID: ZPJ-WMICG4-CU

### 2.4 General Test Procedure

**POWER LINE CONDUCTED INTERFERENCE:** The procedure used was ANSI STANDARD C63.4-2009 5.2 using a 50µH 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.

FCC ID: ZPJ-WMICG4-CU

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

The formula is as follows:

Average = Peak + Duty Factor

Duty Factor = 20 log (dwell time/T)

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

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

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.

FCC ID: ZPJ-WMICG4-CU

# 3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)	×	×	
Equivalent isotropically radiated Power	15.247(b)	×	×	
Spurious Emissions radiated – Transmitter operating	15.247(c):	×	×	
	15.209			
Band Edge Measurement	15.247(c)	×	×	
Minimum 6 dB Bandwidth	15.247(d)(2)	×	×	
Peak Power Spectral Density	15.247(e)	×	×	
Radiated Emission from Digital Part	15.109			
Power Line Conducted Emission	15.207			

The following is intentionally left blank.

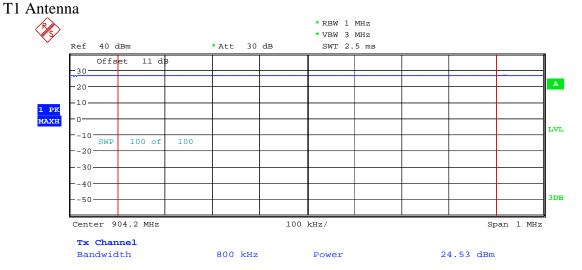
FCC ID: ZPJ-WMICG4-CU

## 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).



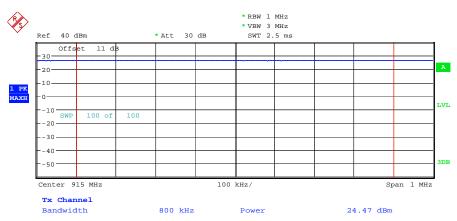
MAX OUTPUT POWER

Date: 26.AUG.2013 22:51:13



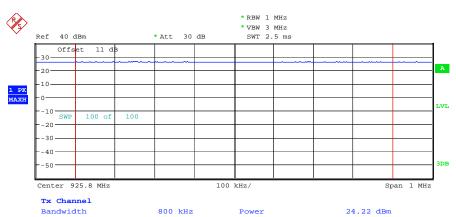
Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU





Date: 26.AUG.2013 22:51:48



MAX OUTPUT POWER

Date: 26.AUG.2013 22:52:11



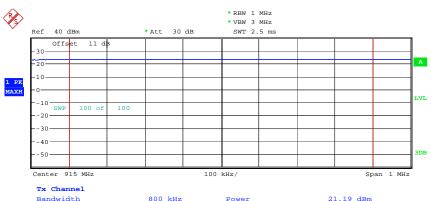
Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

### T2 Antenna







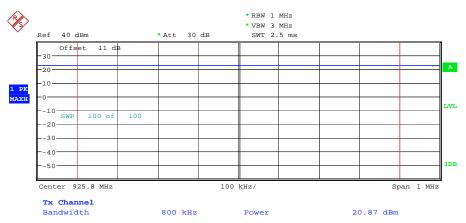
MAX OUTPUT POWER

Date: 26.AUG.2013 22:49:58



Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU



MAX OUTPUT POWER

Date: 26.AUG.2013 22:49:27

### Limits:

Frequency	Power
MHz	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

FCC ID: ZPJ-WMICG4-CU

## 3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)

EIRP = max. conducted output power + antenna gain

EIRP = 24.53 dBm + 3.05 dBi

= 27.58 dBm

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.

$$\begin{array}{c}
PG \\
S = ----- \\
4 \pi R^2
\end{array}$$

S – Power Density

P – Output power ERP

R-Distance

D – Cable Loss

AG – Antenna Gain

Item	Unit	Value	Remarks
P	mW	283.79	Peak value
D	dB		
AG	dBi	3.05	
G		2.02	Calculated Value
R	cm	20	Assumed value
S	mW/cm <sup>2</sup>	0.114	Calculated value

#### Limits:

Limit for General Population / Uncontrolled Exposure								
Frequency (MHz)	Power Density (mW/cm <sup>2</sup> )							
1500 – 100.000	1.0							

FCC ID: ZPJ-WMICG4-CU

### 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	Field strength	Field Strength
(MHz)	(microvolts/meter)	(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 (dwell time/ 100ms)

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

Explanation: see attached diagrams in Appendix.

FCC ID: ZPJ-WMICG4-CU

## 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 (dwell time/100ms)

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



Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

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

T1 Antenna

Model: WMICG4-CU Date: 2013/05/02~2013/8/25

Mode: TX 904.2MHz (CH1) Temperature: 24 °C Engineer: Leo

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)
253.5471	26.55	peak	14.24	40.79	46.00	-5.21	230	100
389.6192	22.12	peak	18.29	40.41	46.00	-5.59	110	100

Frequency (MHz)	Reading (dBuV) Peak Ave.		Factor (dB)	(dBı	t @3m uV/m)	(dBu	@3m V/m)	Margin (dB)	Table Degree	Ant. High
1799.5990	55.51	Ave.	-6.09	Peak 49.42	Ave.	74.00	Ave. 54.00	-24.58	(Deg.) 155	(cm) 100
2711.4230	55.23		-3.08	52.15		74.00	54.00	-21.85	130	100
3616.8000	41.05		-1.49	39.56		74.00	54.00	-34.44	0	100
4521.0000	41.49		0.17	41.66		74.00	54.00	-32.34	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)
253.5471	16.39	peak	14.24	30.63	46.00	-15.37	120	100
570.4008	9.69	peak	22.05	31.74	46.00	-14.26	30	100

Frequency (MHz)	Reading (dBuV) Peak Ave.		Factor (dB) Corr.		t @3m ıV/m) Ave.		@3m V/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1070.1400	51.13		-7.59	43.54		74.00	54.00	-30.46	200	100
1799.5990	50.23		-6.09	44.14		74.00	54.00	-29.86	80	100
2711.4230	48.70		-3.08	45.62		74.00	54.00	-28.38	135	100
2991.9840	47.12		-2.29	44.83		74.00	54.00	-29.17	135	100



Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

Mode: TX 915MHz (CH10)

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
261.3226	26.46	peak	14.46	40.92	46.00	-5.08	230	100
387.6754	20.59	peak	18.23	38.82	46.00	-7.18	110	100

Frequency	Reading (dBuV)		Factor (dB)	(dBu	t @3m ıV/m)	Limit @3m (dBuV/m) Peak Ave.		Margin	Table Degree	Ant. High
(MHz)		Ave.	Corr.	Peak	Ave.		Ave.	(dB)	(Deg.)	(cm)
1827.6550	51.60		-5.80	45.80		74.00	54.00	-28.20	155	100
2739.4790	56.17	45.16	-3.08	53.09	42.08	74.00	54.00	-11.92	130	100
3660.0000	41.33		-1.38	39.95		74.00	54.00	-34.05	105	100
4575.0000	42.03		0.11	42.14		74.00	54.00	-31.86	70	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
253.5471	16.52	peak	14.24	30.76	46.00	-15.24	230	100
566.5130	11.54	peak	21.94	33.48	46.00	-12.52	50	100

Frequency (MHz)	Reading (dBuV) Peak Ave.		Factor (dB) Corr.	_(dBu	Result @3m (dBuV/m) Peak Ave.		Limit @3m (dBuV/m) Peak Ave.		Table Degree (Deg.)	Ant. High (cm)
1098.1960	51.50		-8.12	43.38		74.00	54.00	(dB) -30.62	90	100
1827.6550	46.02		-5.80	40.22		74.00	54.00	-33.78	135	100
2739.4790	53.46		-3.08	50.38		74.00	54.00	-23.62	185	100
2991.9840	47.96		-2.29	45.67		74.00	54.00	-28.33	100	100

Mode: TX 925.8MHz (CH19)

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
257.4350	25.96	peak	14.33	40.29	46.00	-5.71	230	100
393.5070	20.19	peak	18.40	38.59	46.00	-7.41	110	100



Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

Frequency (MHz)	Reading (dBuV) Peak Ave.		Factor (dB) Corr.		t @3m ıV/m) Ave.		@3m V/m) Ave.	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
1841.6830	58.94	47.33	-5.65	53.29	41.68	74.00	54.00	-12.32	260	100
2767.5350	51.67		-3.07	48.60		74.00	54.00	-25.40	155	100
3703.2000	41.37		-1.27	40.10		74.00	54.00	-33.90	90	100
4629.0000	41.74		0.12	41.86		74.00	54.00	-32.14	130	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
251.6032	16.55	peak	14.19	30.74	46.00	-15.26	230	100
572.3447	10.65	peak	22.11	32.76	46.00	-13.24	140	100

Frequency	Reading (dBuV)		Factor (dB)		t @3m ıV/m)		@3m IV/m)	Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1098.1960	51.23		-8.12	43.11		74.00	54.00	-30.89	190	100
1841.6830	52.89		-5.65	47.24		74.00	54.00	-26.76	255	100
2767.5350	52.89		-3.07	49.82		74.00	54.00	-24.18	230	100
2991.9840	48.01		-2.29	45.72		74.00	54.00	-28.28	110	100

# T2 Antenna

Mode: TX 904.2MHz (CH1)

Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
263.2664	25.97	peak	14.57	40.54	46.00	-5.46	230	100
387.6754	20.50	peak	18.23	38.73	46.00	-7.27	110	100

Frequency	Readi	ng	Factor	Resul	t @3m	Limit @3m		Margin	Table	Ant.
	(dBu\	/)	(dB)	(dBu	ıV/m)	(dBu	(dBuV/m)		Degree	High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1799.5990	58.43		-6.09	52.34		74.00	54.00	-21.66	55	100
2711.4230	47.35		-3.08	44.27		74.00	54.00	-29.73	120	100
3616.8000	41.67		-1.49	40.18		74.00	54.00	-33.82	70	100
4521.0000	41.83		0.17	42.00		74.00	54.00	-32.00	130	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
253.5471	16.65	peak	14.24	30.89	46.00	-15.11	250	100
741.4630	9.42	peak	24.80	34.22	46.00	-11.78	230	100



Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

Frequency	Reading (dBuV)		Factor (dB)		t @3m ıV/m)		@3m V/m)	Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1126.2530	50.63		-8.25	42.38		74.00	54.00	-31.62	240	100
1799.5990	55.64		-6.09	49.55		74.00	54.00	-24.45	255	100
2711.4230	51.53		-3.08	48.45		74.00	54.00	-25.55	170	100
2991.9840	48.64		-2.29	46.35		74.00	54.00	-27.65	130	100

Mode: TX 915MHz (CH10)
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
259.3788	26.56	peak	14.37	40.93	46.00	-5.07	230	100
397.3948	19.85	peak	18.52	38.37	46.00	-7.63	110	100

Frequency	Reading (dBuV)		Factor (dB)		t @3m ıV/m)		@3m V/m)	Margin	Table Degree	Ant. High
(MHz)	Peak	Áve.	Corr.	Peak	Áve.	Peak	Áve.	(dB)	(Deg.)	(cm)
1827.6550	58.51		-5.80	52.71		74.00	54.00	-21.29	25	100
2739.4790	47.05		-3.08	43.97		74.00	54.00	-30.03	170	100
3660.0000	40.96		-1.38	39.58		74.00	54.00	-34.42	210	100
4575.0000	42.37		0.11	42.48		74.00	54.00	-31.52	150	100

Polarization: Vertical

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
255.4910	16.13	peak	14.28	30.41	46.00	-15.59	210	100
562.6253	10.15	peak	21.83	31.98	46.00	-14.02	50	100

Frequency	Reading (dBuV)		Factor (dB)		t @3m IV/m)		@3m V/m)	Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1126.2530	51.76		-8.25	43.51		74.00	54.00	-30.49	175	100
1827.6550	54.22		-5.80	48.42		74.00	54.00	-25.58	100	100
2739.4790	52.85		-3.08	49.77		74.00	54.00	-24.23	55	100
2991.9840	48.33		-2.29	46.04		74.00	54.00	-27.96	120	100



Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

Mode: TX 925.8MHz (CH19)
Polarization: Horizontal

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
259.3788	26.17	peak	14.37	40.54	46.00	-5.46	230	100
393.5070	21.40	peak	18.40	39.80	46.00	-6.20	110	100

Frequency	Reading (dBuV)		Factor (dB)		t @3m ıV/m)		@3m V/m)	Margin	Table Degree	Ant. High
(MHz)	Peak	Åve.	Corr.	Peak	Äve.	Peak	Äve.	(dB)	(Deg.)	(cm)
1827.6550	53.29		-5.80	47.49		74.00	54.00	-26.51	90	100
2739.4790	47.38		-3.08	44.30		74.00	54.00	-29.70	135	100
3703.2000	41.24		-1.27	39.97		74.00	54.00	-34.03	110	100
4629.0000	42.07		0.12	42.19		74.00	54.00	-31.81	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)
251.6032	17.43	peak	14.19	31.62	46.00	-14.38	230	100
564.5691	10.87	peak	21.88	32.75	46.00	-13.25	60	100

Frequency	Read (dB)	U	Factor (dB)		t @3m ıV/m)		@3m V/m)	Margin	Table Degree	Ant. High
(MHz)	Peak	Ave.	Corr.	Peak	Ave.	Peak	Ave.	(dB)	(Deg.)	(cm)
1126.2530	50.83		-8.25	42.58		74.00	54.00	-31.42	95	100
1827.6550	51.88		-5.80	46.08		74.00	54.00	-27.92	170	100
2739.4790	53.60		-3.08	50.52		74.00	54.00	-23.48	255	100
2991.9840	47.98		-2.29	45.69		74.00	54.00	-28.31	130	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:  $30\text{-}1000 \text{ MHz} = \pm 3.72 \text{ dB}$ ,  $1\text{-}18 \text{ GHz} = \pm 5.33 \text{ dB}$ ,  $18\text{-}40 \text{ GHz} = \pm 3.43 \text{ dB}$ ; 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 003, ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 111,

ETSTW-RE 088, ETSTW-RE 018

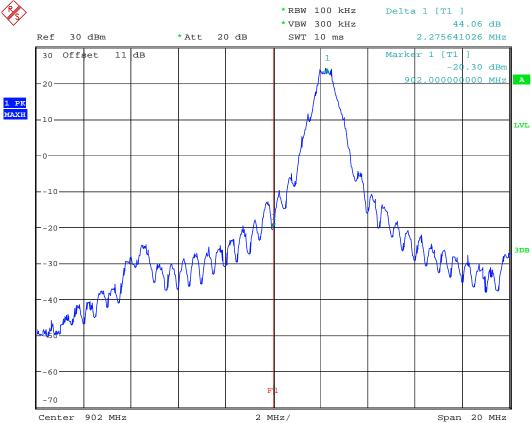
FCC ID: ZPJ-WMICG4-CU

## 3.6 Radiated Emission on the band edge

According to FCC rules part 15 subpart C §15.247(d) 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.





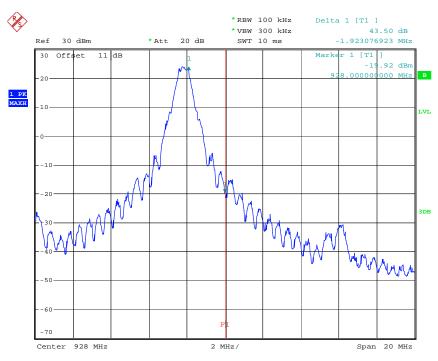
BANDEDGE

Date: 26.AUG.2013 22:12:35



Registration number: W6M21304-13153-C-1

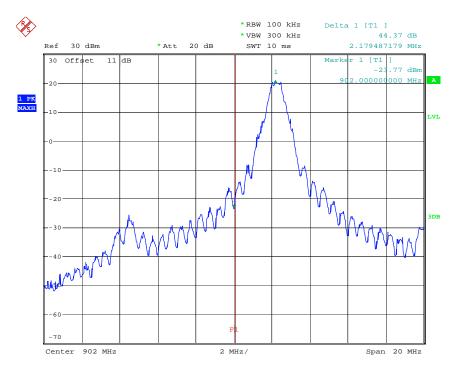
FCC ID: ZPJ-WMICG4-CU



BANDEDGE

Date: 26.AUG.2013 22:13:02

### T2 Antenna



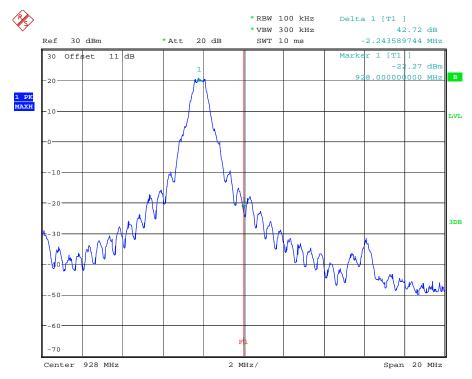
BANDEDGE

Date: 26.AUG.2013 22:11:32



Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU



BANDEDGE

Date: 26.AUG.2013 22:11:03

### Limit:

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

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

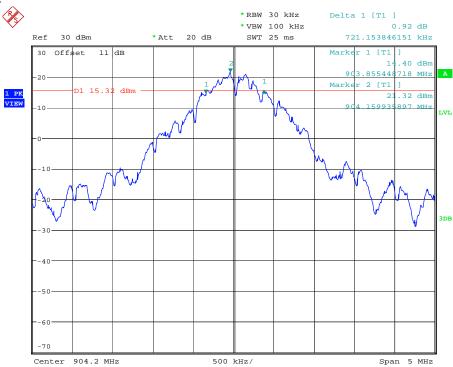
FCC ID: ZPJ-WMICG4-CU

### 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.

### T1 Antenna



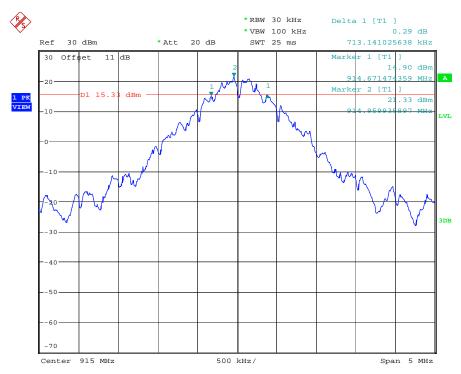
6DB BANDWIDTH

Date: 26.AUG.2013 21:57:04

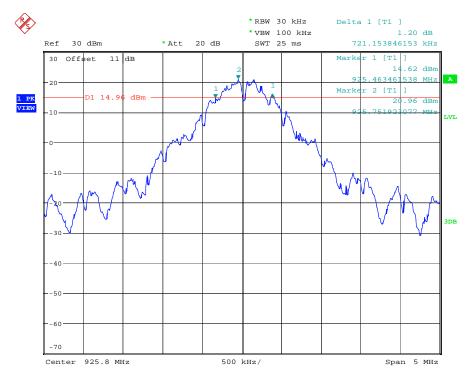


Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU



6DB BANDWIDTH
Date: 26.AUG.2013 21:58:43



6DB BANDWIDTH

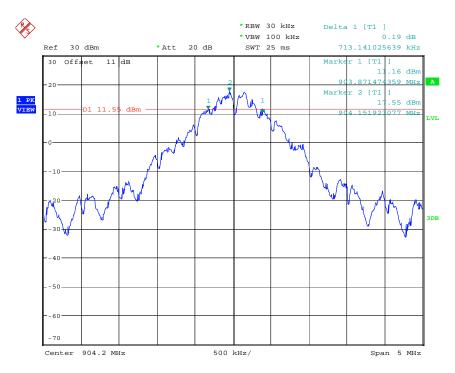
Date: 26.AUG.2013 21:59:51



Registration number: W6M21304-13153-C-1

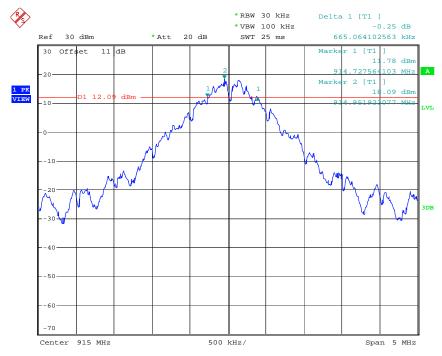
FCC ID: ZPJ-WMICG4-CU

### T2 Antenna



6DB BANDWIDTH

Date: 26.AUG.2013 22:07:34



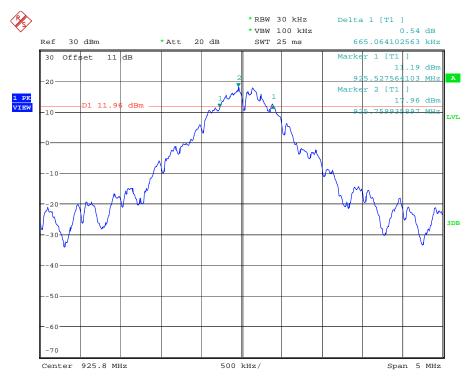
6DB BANDWIDTH

Date: 26.AUG.2013 22:06:16



Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU



6DB BANDWIDTH

Date: 26.AUG.2013 22:04:54

### **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  $\,$ 

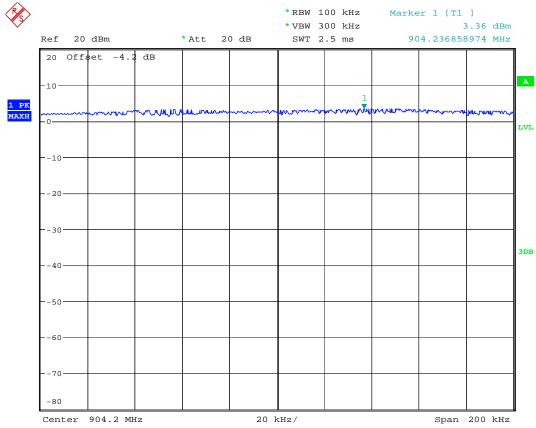
FCC ID: ZPJ-WMICG4-CU

## 3.8 Peak Power Spectral Density

Peak Power Spectral density is a 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.





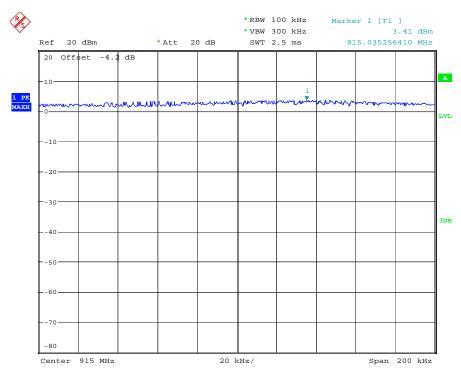
POWER DENSITY

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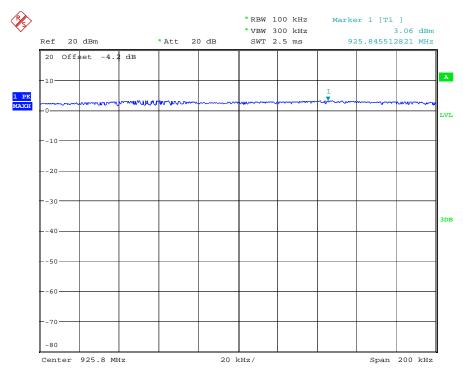


Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU







POWER DENSITY

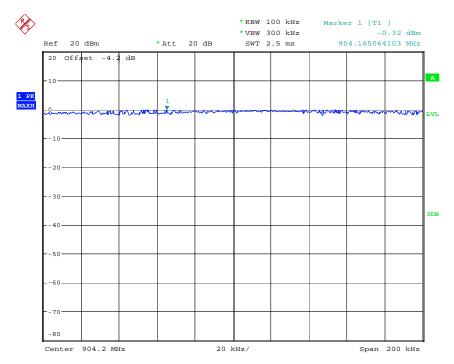
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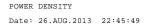


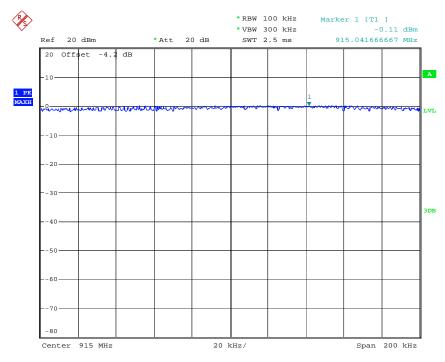
Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

### T2 Antenna







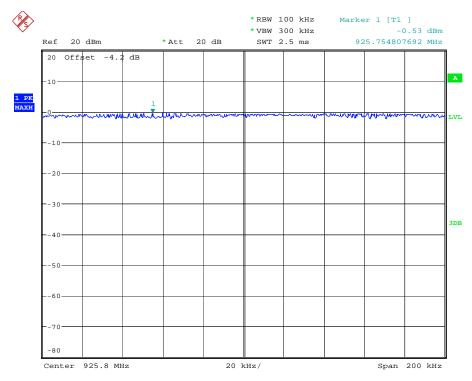
POWER DENSITY

Date: 26.AUG.2013 22:46:12



Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU



POWER DENSITY

Date: 26.AUG.2013 22:46:34

### **Limits:**

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

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

FCC ID: ZPJ-WMICG4-CU

## 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	Field Strength	Field Strength
(MHz)	(microvolts/meter)	(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 003, ETSTW-RE 004, ETSTW-RE 030 ETSTW-RE 111

Explanation: The test results are listed in the separated test report no.: W6M21304-13153-P-15B.

Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

#### 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.

Model: W	MICG4-C	IJ						
Mode:				Temperature: °C Engineer:				
Polarization:	N Humidity: %							
Frequency	Reading		Factor	Result		Limit		Margin
. ,	(dBuV)		(dB)	(dBuV)		(dBuV)		· ·
(MHz)	QP	Ave.	Corr.	QP	Ave.	QP	Ave.	(dB)
Polarization:	L1							
Frequency	Reading		Factor	Result		Limit		Margin
	(dB	uV)	(dB)	(dB	uV)	(dB	uV)	_
(MHz)	QP	Ave.	Corr.	QP	Ave.	QP	Ave.	(dB)

Eraguangy	Level (dBμV)					
Frequency	quasi-peak	average				
150 kHz	lower limit line	Lower limit line				

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. This test is not required because there is no AC Power line or Signal line for this EUT.

Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

### **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

Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

### **Appendix**

### **Measurement diagrams**

Spurious Emissions radiated



Registration number: W6M21304-13153-C-1

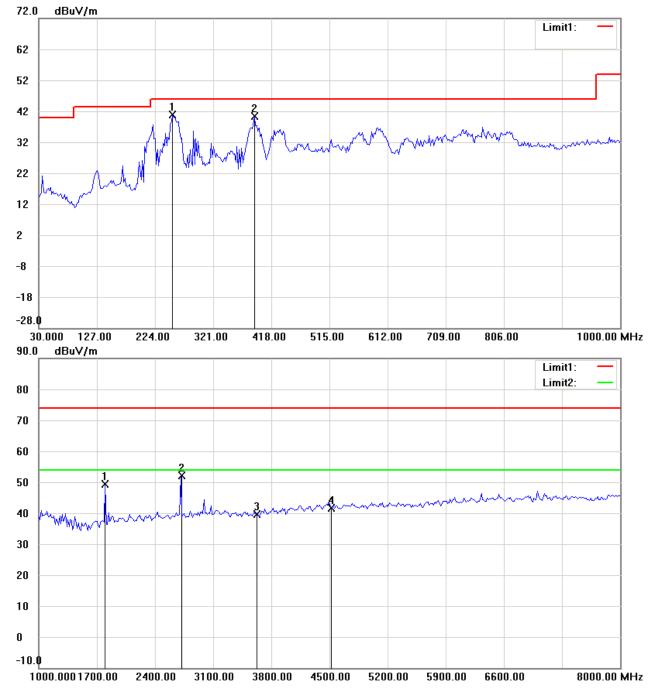
FCC ID: ZPJ-WMICG4-CU

Radiated Emission-Transmitter

T1 Antenna

TX 904.2MHz (CH1)

Antenna Polarization H

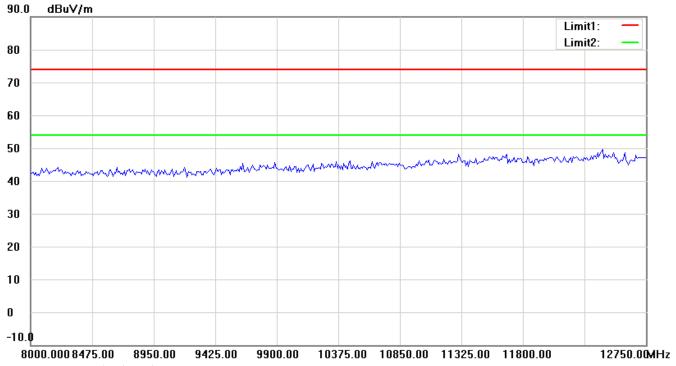


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
- 2. The some frequencies may exceed the limit line without the specified detectors, but that cannot present the results are failed to the specification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



Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU



#### Antenna Polarization V

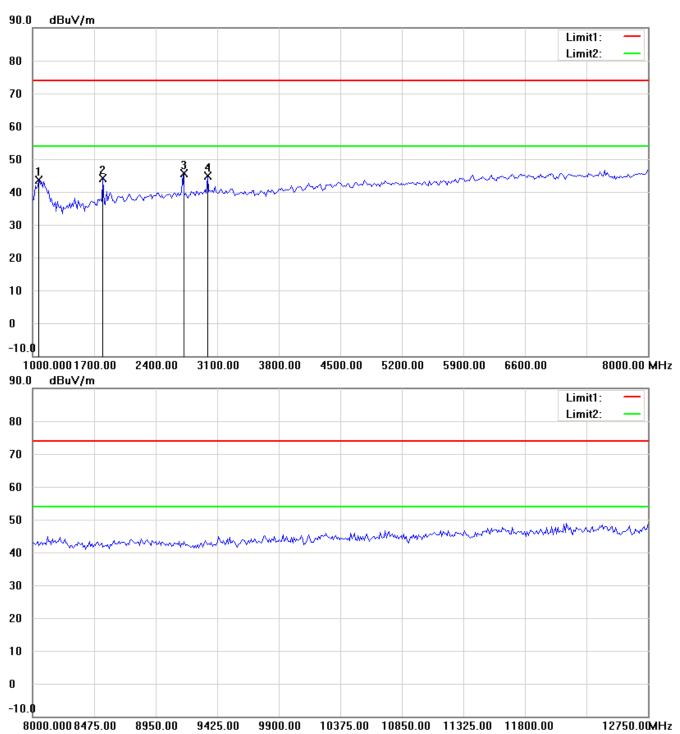


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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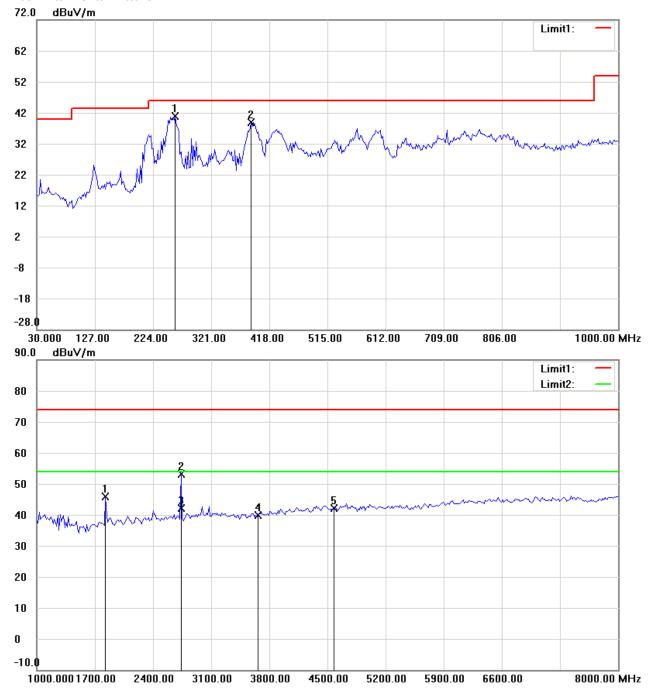


Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

### TX 915MHz (CH10)

### Antenna Polarization H

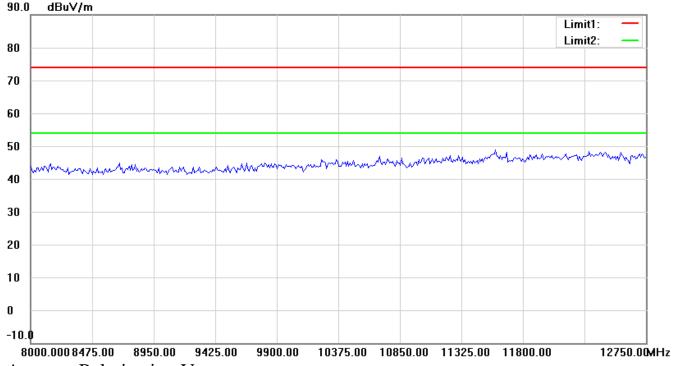


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Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU



#### Antenna Polarization V

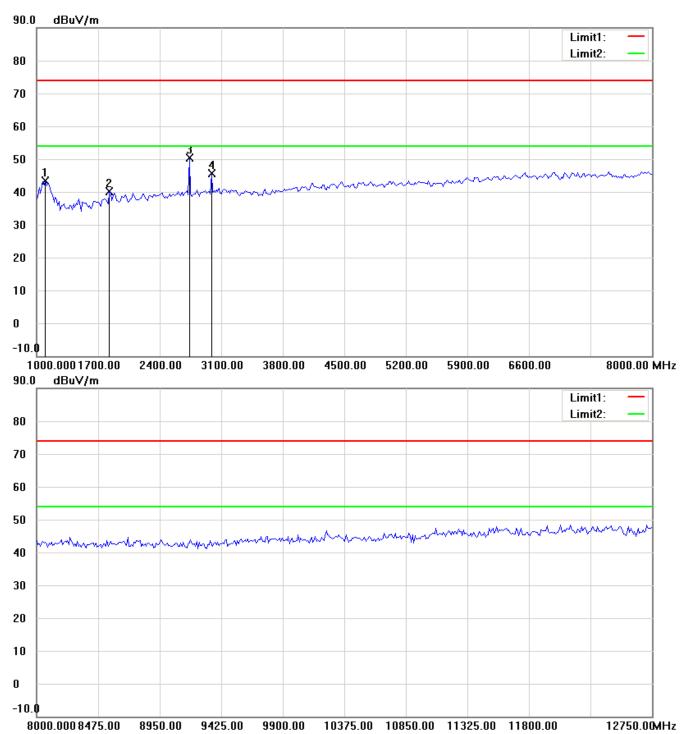


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU



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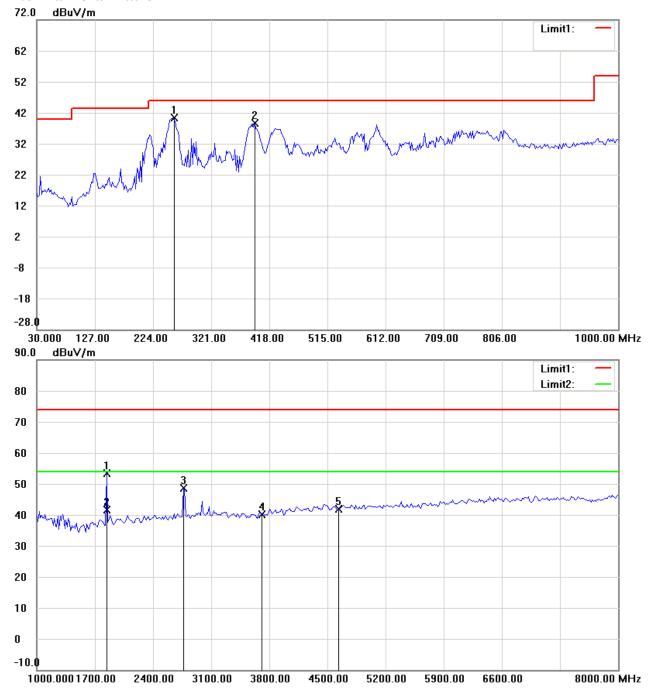


Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

### TX 925.8MHz (CH19)

### Antenna Polarization H

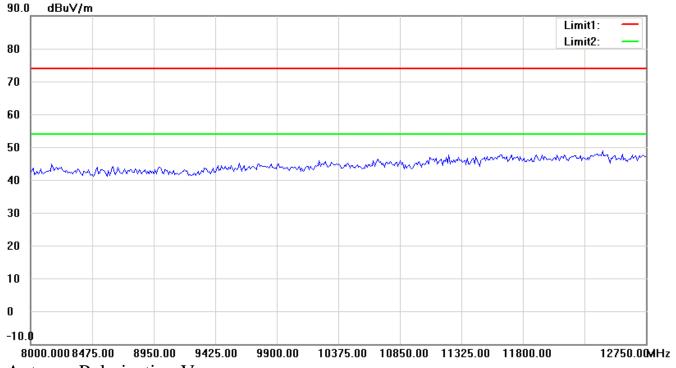


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU



#### Antenna Polarization V

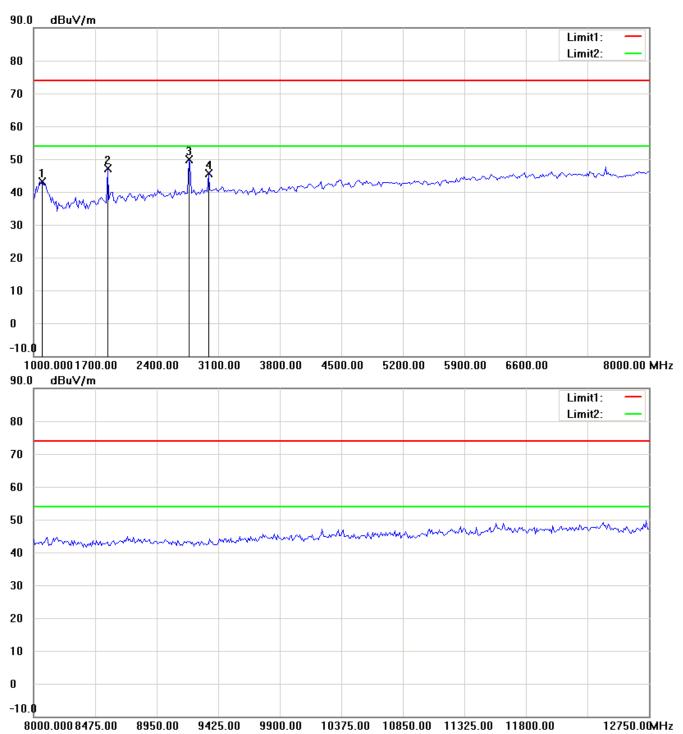


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Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU



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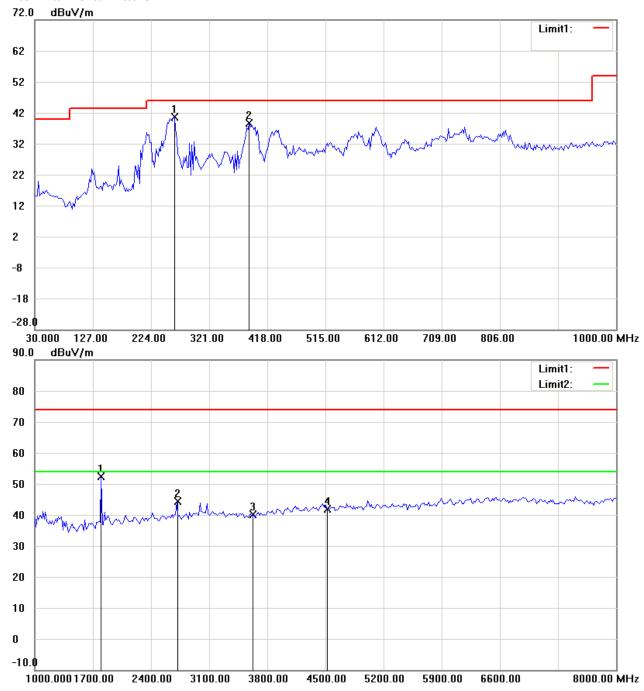
Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

#### T2 Antenna

TX 904.2MHz (CH1)

#### Antenna Polarization H

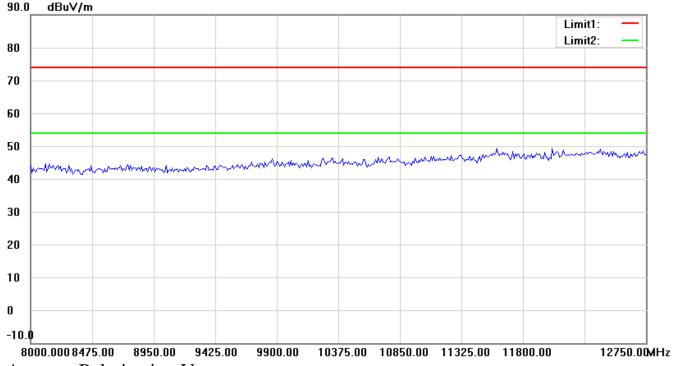


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU



#### Antenna Polarization V

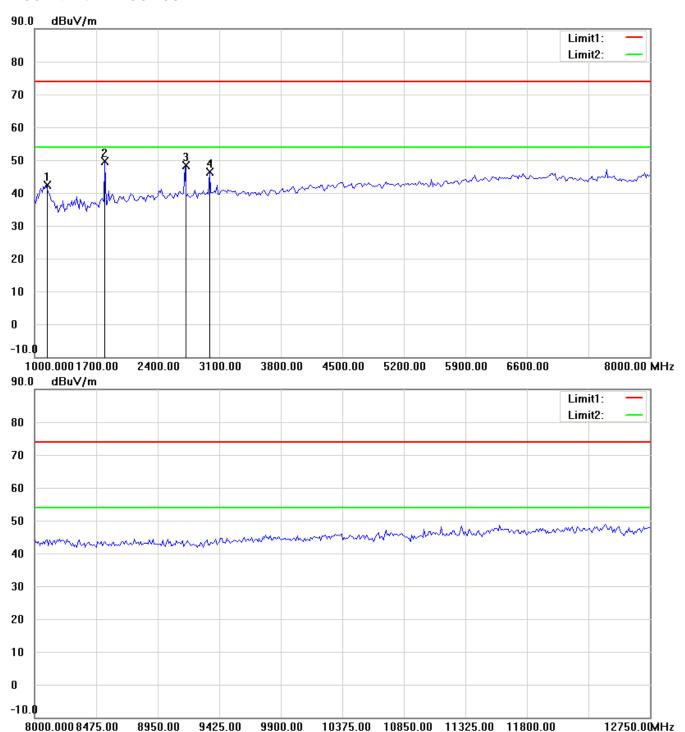


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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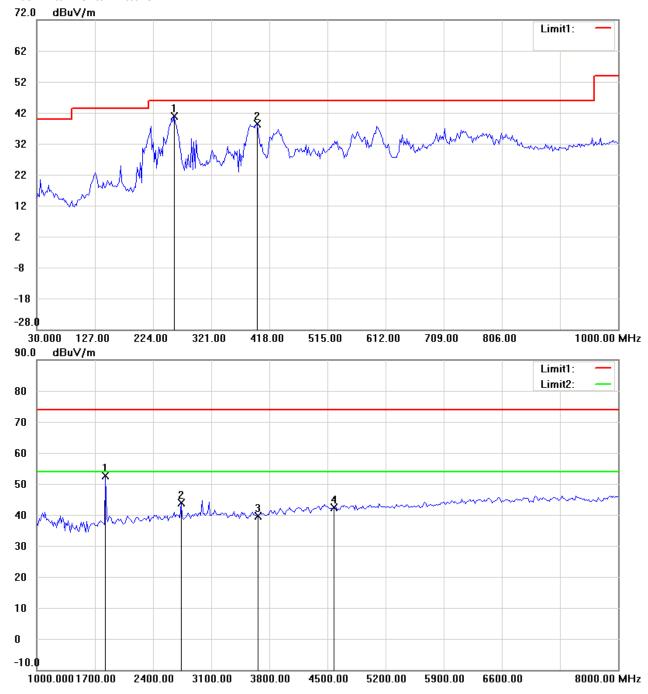


Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

### TX 915MHz (CH10)

### Antenna Polarization H

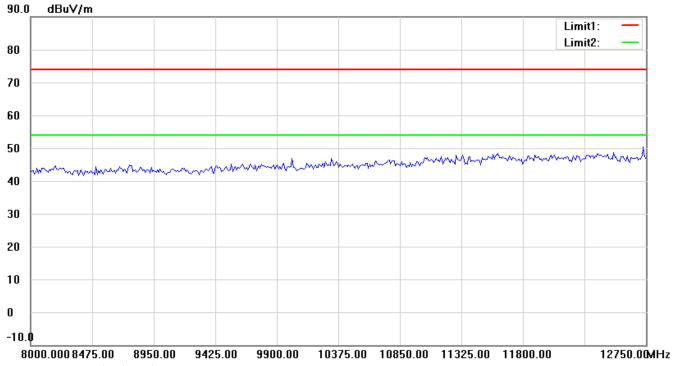


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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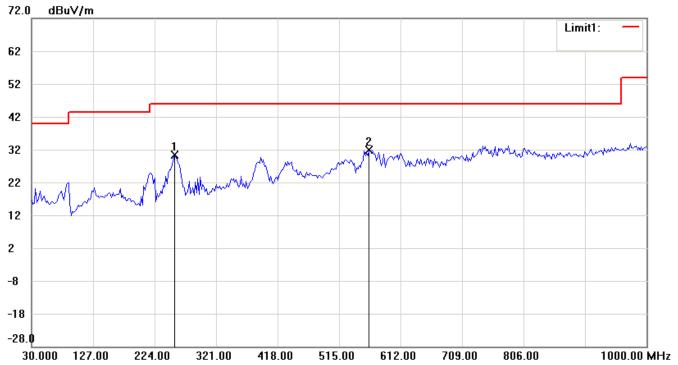


Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU



#### Antenna Polarization V

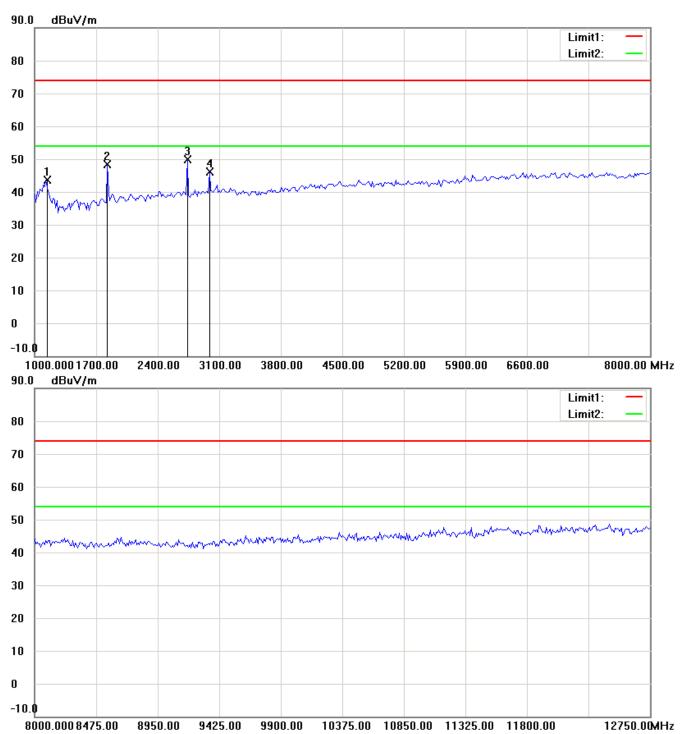


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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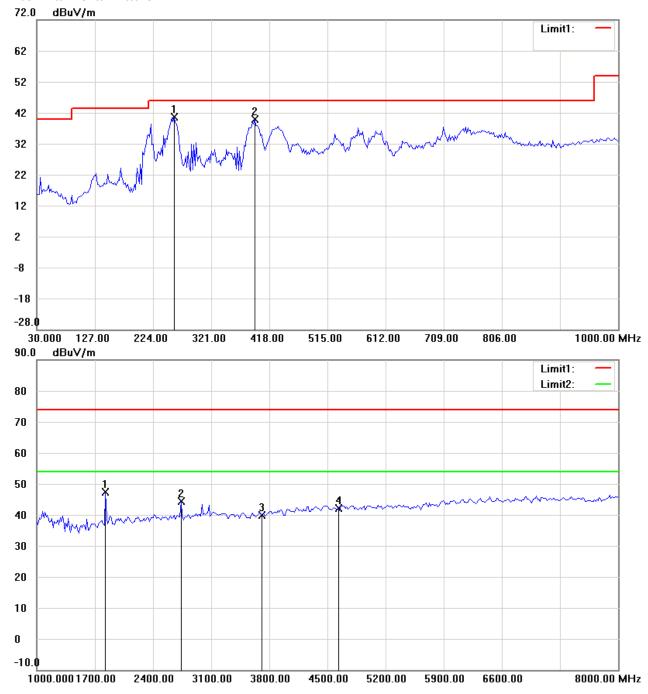


Registration number: W6M21304-13153-C-1

FCC ID: ZPJ-WMICG4-CU

### TX 925.8MHz (CH19)

### Antenna Polarization H

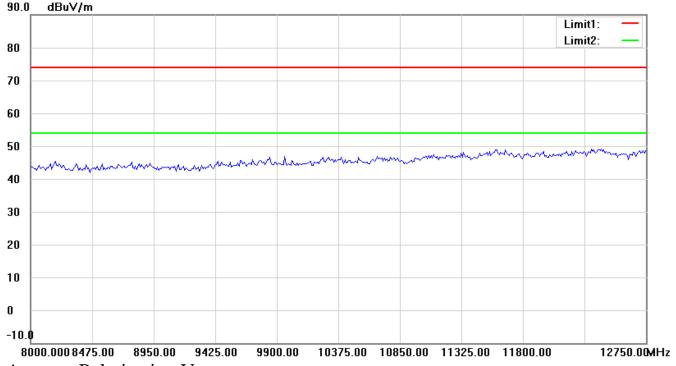


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FCC ID: ZPJ-WMICG4-CU



#### Antenna Polarization V

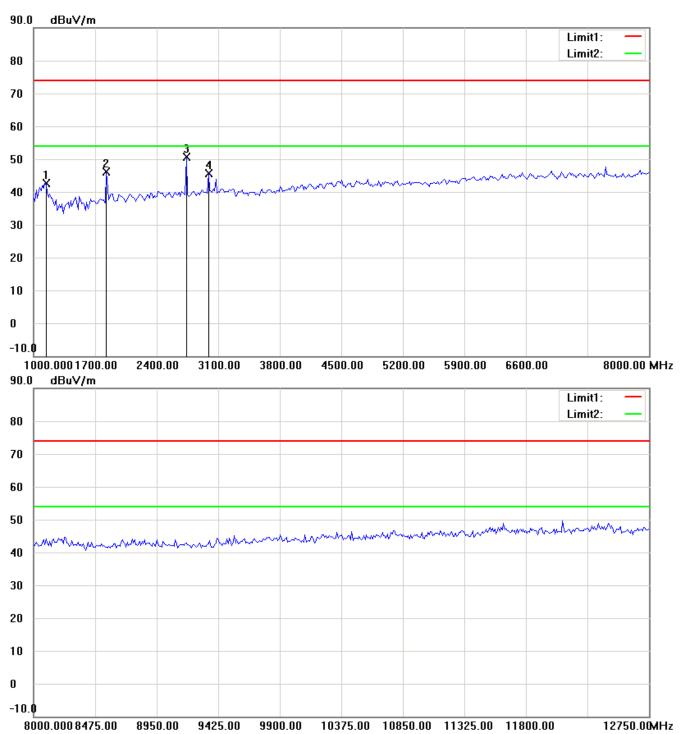


- 1. The attached measurement plots are preliminarily pre-scanned with peak detector for determining the final checking frequencies and are for reference only.
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