FCC PART 15 SUBPART C TEST REPORT

for

Remote Control

Model No.: TRC967F

FCC ID: H5OTR64

of

Applicant: Advance Security Inc
Address: 3F, 48, Ta An Street, Hsi Chih Taipei 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, IC 5107A-1

A2LA Accredited No.: 2732.01

Report No.: W6M21509-15277-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

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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 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.

Tester:

Date	WTS-Lab.	Name	Signature
September 24, 2015		Rick Chen	Rick Chen

Technical responsibility for area of testing:

Date	WTS	Name	Signature
September 24, 2015		Kevin Wang	Kevin Wang

Registration number: W6M21509-15277-C-1
FCC ID: H5OTR64

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, IC 5107A-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:	Advance Security Inc
Street:	3F, 48, Ta An Street, Hsi Chih
Town:	Taipei
Country:	Taiwan
Telephone:	+886-2-86481688
Fax:	+886-2-86481689

1.4 Application details

Date of receipt of test item:	September 17, 2015
Date of test:	from September 18, 2015 to September 24, 2015

1.5 General information of Test item

Type of test item	: Remote Control
Model Number	: TRC967F
Multi-listing model number	: ./.
Photos	: see Appendix

Technical data

Frequency band	: 908.300 – 923.783 MHz
Frequency (ch A)	: 908.300 MHz
Frequency (ch B)	: 915.439 MHz
Frequency (ch C)	: 928.783 MHz

Transmitter **Unom**

Peak Power

Power (ch A or ch 1)	: Conducted: 19.02 dBm
Power (ch B or ch 13)	: Conducted: 18.93 dBm
Power (ch C or ch 25)	: Conducted: 18.75 dBm

Average Power

Power (ch A or ch 1)	: Conducted: -15.53 dBm
Power (ch B or ch 13)	: Conducted: -15.62 dBm
Power (ch C or ch 25)	: Conducted: -15.80 dBm

Registration number: W6M21509-15277-C-1
FCC ID: H5OTR64

Power supply : USB: 5 VDC (power from PC)
Battery: 3.7 VDC, 150 mAh

Operation modes : Half-duplex

Modulation Type : FHSS

Antenna Type : Helical antenna

Antenna gain : -2 dBi

Host device : ./.

Classification :

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

Manufacturer:
(if applicable)

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

1.6 Test standards

Technical standard : FCC RULES PART 15 SUBPART C § 15.247 (2014-10)

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 ℃
Relative humidity content	: 20 ... 75 %
Air pressure	: 86 ... 103 kPa
Details of power supply	: USB: 5 VDC (power from PC) Battery: 3.7 VDC, 150 mAh
Extreme conditions parameters	: test voltage : -- extreme min :-- V max :-- V
Description of Tested System	: ./.

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	2015/9/4	2016/9/3
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
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	2015/7/13	2016/7/12
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2015/9/7	2016/9/6
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2015/9/4	2016/9/3
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2015/8/14	2016/8/13
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	2015/6/22	2016/6/21
ETSTW-RE 027	Passive Loop Antenna	6512	00034563	ETS-Lindgren	2015/6/16	2016/6/15
ETSTW-RE 030	Double-Ridged Guide Horn Antenna	3117	00035224	ETS-Lindgren	2015/3/17	2016/3/16
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	2015/3/19	2016/3/18
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2015/3/2	2016/3/1
ETSTW-RE 051	Attenuator 6dB	50HF-006-1	None	JFW	2015/3/2	2016/3/1
ETSTW-RE 053	Attenuator 3dB	50HF-003-1	None	JFW	2015/3/2	2016/3/1
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2015/6/8	2016/6/7
ETSTW-RE 060	Attenuator 30dB	5015-30	F651012z-01	ATM	2015/3/2	2016/3/1
ETSTW-RE 062	Amplifier Module	CHC 2	None	KMIC	2014/11/26	2015/11/25
ETSTW-RE 064	Bluetooth Test Set	MT8852B-042	6K00005709	Anritsu	Function Test	
ETSTW-RE 069	Double-Ridged Guide Horn Antenna	3117	00069377	ETS-Lindgren	Function Test	
ETSTW-RE 072	CELL SITE TEST SET	8921A	3339A00375	HP	2015/9/6	2016/9/5
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2015/9/16	2016/9/15
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2015/3/2	2016/3/1
ETSTW-RE 111	TRILOG Super Broadband test Antenna	VULB 9160	9160-3309	Schwarz beck	2014/12/5	2015/12/4
ETSTW-RE 112	AC POWER SOURCE	TFC-1005	T-0A023536	T-Power	Function test	
ETSTW-RE 115	2.4GHz Notch Filter	N0124411	473874	MICROWAVE CIRCUITS	2015/1/7	2016/1/6
ETSTW-RE 120	RF Player	MP9200	MP9210-111022	ADIVIC	Function test	
ETSTW-RE 122	SIGNAL GENERATOR	SMF100A	102149	R&S	2015/6/8	2016/6/7
ETSTW-RE 125	5GHz Notch filter	5NSL11-5200/E221.3-O/O	1	K&L Microwave	2015/8/12	2016/8/11
ETSTW-RE 126	5GHz Notch filter	5NSL11-5800/E221.3-O/O	1	K&L Microwave	2015/8/12	2016/8/11

ETSTW-RE 127	RF Switch Box	RFS-01	None	WTS	2015/3/2	2016/3/1
ETSTW-RE 128	5.3GHz Notch filter	N0153001	SN487233	Microwave Circits	2015/8/12	2016/8/11
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circits	2015/8/12	2016/8/11
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-RE 143	Humidity Temperature Meter	TES-1260	110104623	TES	2015/9/9	2016/9/8
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2015/8/14	2016/8/13
ETSTW-GSM 003	Radio Communication Analyzer	MT8820C	6201342073	Anritsu	2015/3/5	2016/3/4
ETSTW-GSM 019	Band Reject Filter	WRCTF824/849-822/851-40 /12+9SS	3	WI	2015/1/7	2016/1/6
ETSTW-GSM 020	Band Reject Filter	WRCD1747/1748-1743/1752-32/5SS	1	WI	2015/1/7	2016/1/6
ETSTW-GSM 021	Band Reject Filter	WRCD1879.5/1880.5-1875.5/1884.5-32/5SS	3	WI	2015/1/7	2016/1/6
ETSTW-GSM 022	Band Reject Filter	WRCT901.9/903.1-904.25-50/8SS	1	WI	2015/1/7	2016/1/6
ETSTW-GSM 023	Power Divider	4901.19.A	None	SUHNER	2015/9/16	2016/9/15
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2015/9/11	2016/9/10
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.	2015/9/11	2016/9/10
ETSTW-Cable 016	BNC Cable	Switch Box	B Cable 1	Schwarz beck	2015/2/25	2016/2/24
ETSTW-Cable 017	BNC Cable	X Cable	B Cable 2	Schwarz beck	2015/2/25	2016/2/24
ETSTW-Cable 018	BNC Cable	Y Cable	B Cable 3	Schwarz beck	2015/2/25	2016/2/24
ETSTW-Cable 019	BNC Cable	Z Cable	B Cable 4	Schwarz beck	2015/2/25	2016/2/24
ETSTW-Cable 020	N TYPE Cable	OATS Cable 1	N30N30-L335-15M	JYE BAO CO.,LTD.	2015/4/23	2016/4/22
ETSTW-Cable 022	N TYPE Cable	5006	0002	JYE BAO CO.,LTD.	2015/3/19	2016/3/18
ETSTW-Cable 026	Microwave Cable	SUCOFLEX 104	279075	HUBER+SUHNER	2015/3/2	2016/3/1
ETSTW-Cable 027	Microwave Cable	SUCOFLEX 104	279083	HUBER+SUHNER	2015/5/14	2016/5/13
ETSTW-Cable 028	Microwave Cable	FA147A0015M2020	30064-2	UTIFLEX	2015/9/16	2016/9/15
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2015/9/16	2016/9/15
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104（S_Cable 9）	279067	HUBER+SUHNER	2015/3/2	2016/3/1
ETSTW-Cable 031	Microwave Cable	SUCOFLEX 104（S_Cable 10）	238092	HUBER+SUHNER	2014/11/26	2015/11/25
ETSTW-Cable 043	Microwave Cable	SUCOFLEX 104	317576	HUBER+SUHNER	2014/11/26	2015/11/25
ETSTW-Cable 048	Microwave Cable	SUCOFLEX 104	325518	HUBER+SUHNER	2014/11/26	2015/11/25
ETSTW-Cable 053	N TYPE To SMA Cable	RG142	None	JYE BAO CO.,LTD.	2015/3/19	2016/3/18
ETSTW-Cable 058	Microwave Cable	SUCOFLEX 104	none	HUBER+SUHNER	2015/3/19	2016/3/18
WTSTW-SW 002	EMI TEST SOFTWARE	EZ_EMC	None	Farad	Version ETS-03A1	

2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2009 5.2 using a 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. The ambient. temperature of the UUT was 23°C with a humidity of 40 %.

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 dBμV) 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 dBμV + 10.36 dB + 6 dB = 36.36 dBμV/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 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.

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.

3 Test results (enclosure)

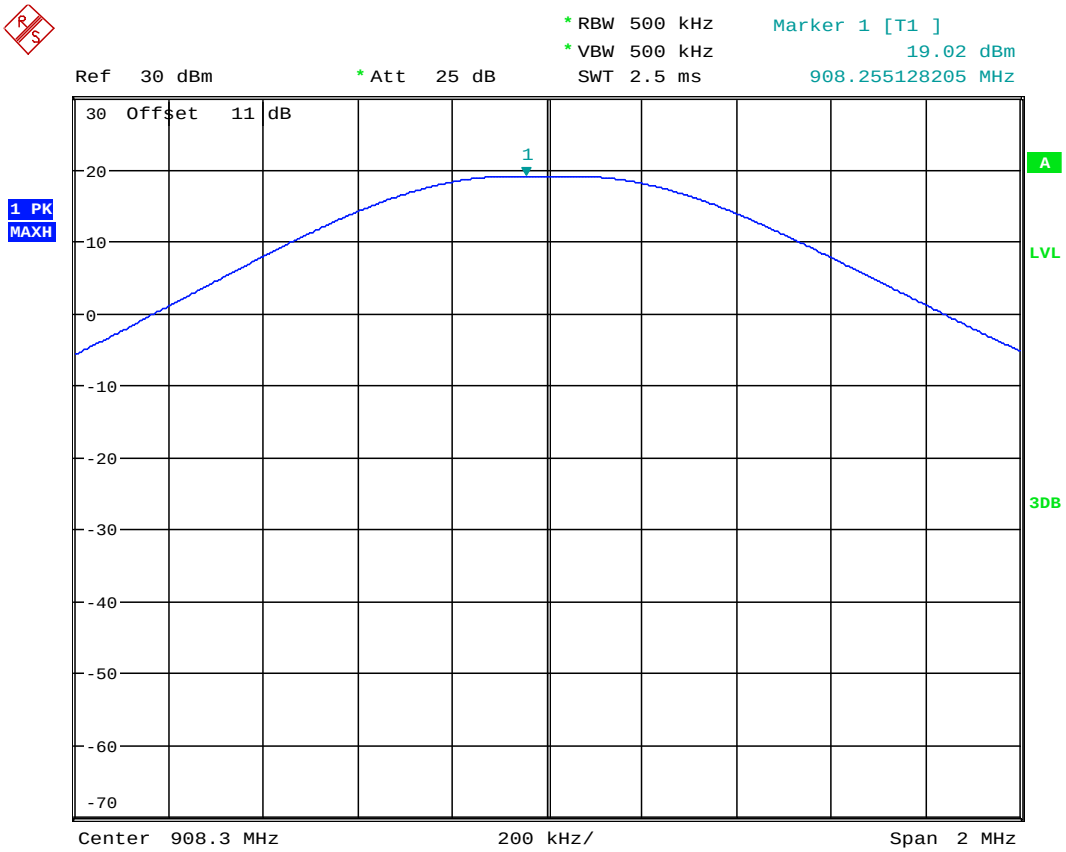
TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)	☒	☒	☐
Equivalent isotropically radiated Power	15.247(b)	☒	☒	☐
Spurious Emissions radiated – Transmitter operating	15.247(c)	☒	☒	☐
Spurious Emissions conducted – Transmitter operating	15.247	☐	☐	☐
Carrier Frequency Separation	15.247(a) (1)	☒	☒	☐
Number of Hopping Frequencies	15.247(a) (1)(i)	☒	☒	☐
Time of Occupancy (Dwell Time)	15.247(a) (1)(i)	☒	☒	☐
20 dB Bandwidth	15.247(a) (1)(i)	☒	☒	☐
Band-edge Compliance of RF Emission	15.247(c)	☒	☒	☐
Radiated Emission from Receiver	15.109	☐	☐	☐
Power Line Conducted Emission	15.207(a)	☒	☒	☐

3.1 Peak Output Power (transmitter)

FCC Rule: 15.247

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.

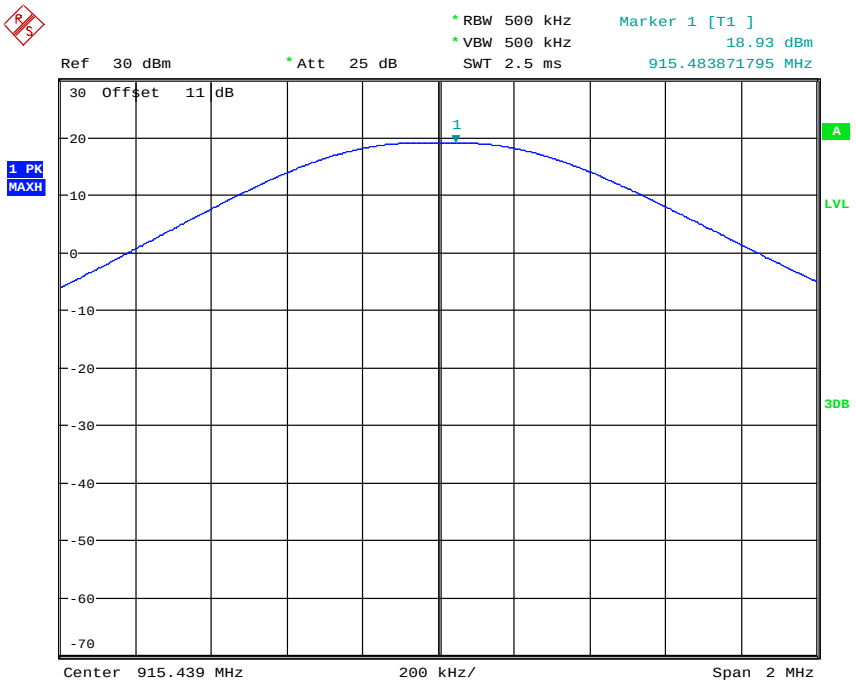
The power was measured with modulation (declared by the applicant).



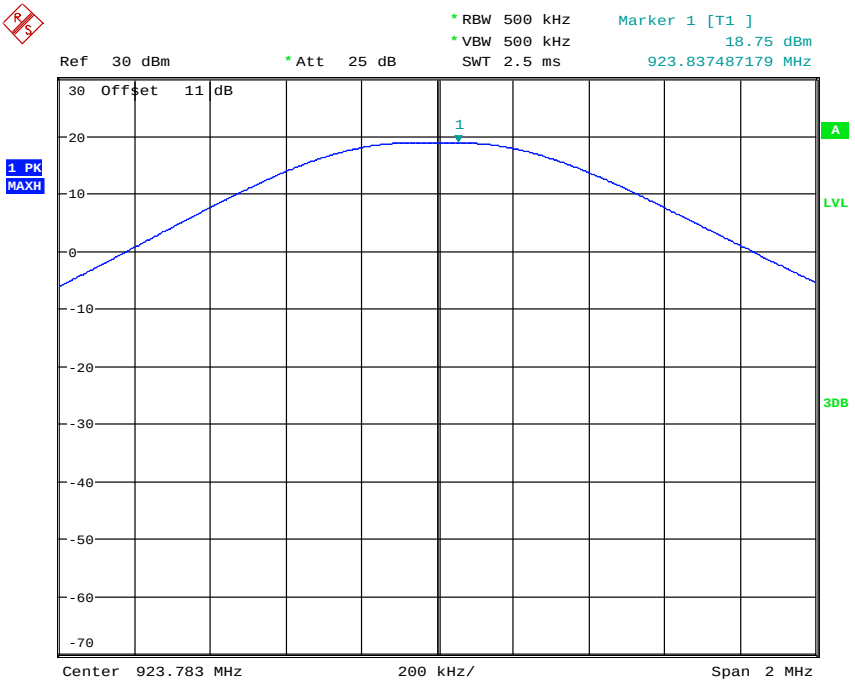
MAX OUTPUT POWER 908.3MHz

Date: 24.SEP.2015 13:26:19

Registration number: W6M21509-15277-C-1
FCC ID: H5OTR64



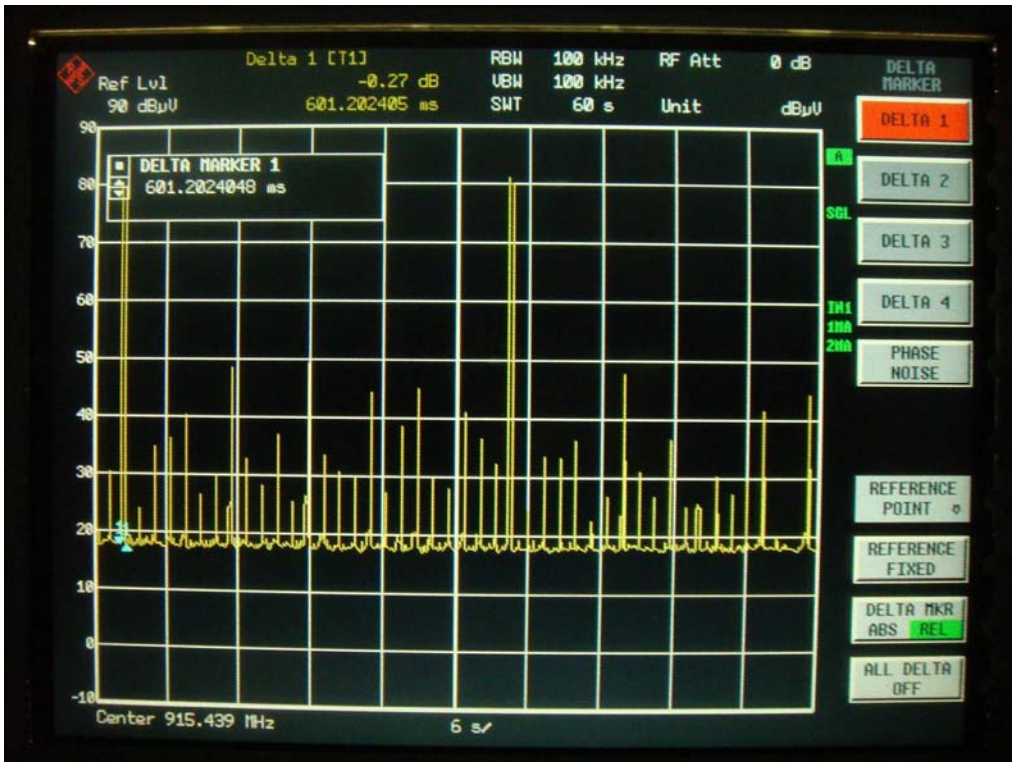
MAX OUTPUT POWER 915.439MHz
Date: 24.SEP.2015 13:27:12

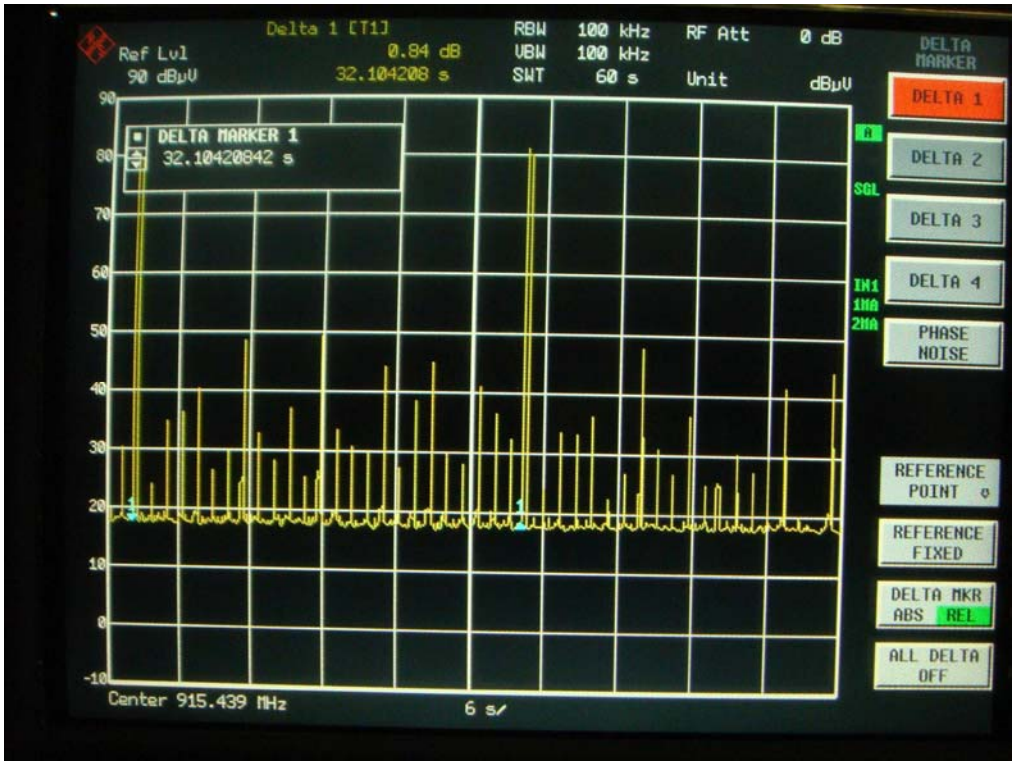


MAX OUTPUT POWER 923.783MHz
Date: 24.SEP.2015 13:27:46

Registration number: W6M21509-15277-C-1
FCC ID: H5OTR64

Duty cycle





Testing Mode	T period (ms)	T on (ms)	Duty Cycle	Duty Cycle Correction 20*log(Duty Cycle)
Transmitting Mode	32.104208	0.601202	0.018726592	-34.55

Average Power = Peak Power + Duty Factor

Peak Power	Duty Factor	Average Power
19.02 dBm	-34.55	-15.53 dBm
18.93 dBm	-34.55	-15.62 dBm
18.75 dBm	-34.55	-15.80 dBm

Maximum Peak Output Power

Limits:

Frequency MHz	Number of hopping channels			
	≥ 75	≥ 50	49 ≥ 25	74 ≥ 15
902-928	-	30 dBm	24 dBm	-
2400-2483.5 MHz	30 dBm	-	-	21 dbm
5725-5850 MHz	30 dBm	-	-	-

In case of employing transmitter antennas having antenna gain >dBi and using fixed poin-to point operation consider §15.247 (b)(4).

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

3.2 RF Exposure Compliance Requirements

FCC Rule: 15.247(b)(3)
Test exclusion = max. conducted output power + adjusted for tune-up tolerance
Test exclusion = -15.53 dBm

RESULT:

Test standard : FCC KDB Publication
447498 D01 General RF Exposure Guidance v05r02

According to 447498 D01 General RF Exposure Guidance v05r02:
SAR evaluation, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

The enclosure of the device provides ≥ 0.5 cm separation from the antenna elements to significant metal parts of the enclosure to minimize potential perturbations.

Frequency Band: 908.300-923.783 MHz
Maximum Power fed to Antenna: 0.0280 mW

Separation distances:
Radiator to user: > 5 mm
Distance prescribed in user manual: > 5 mm

MHz	5	10	15	20	25	mm
900	16	32	47	63	79	SAR Test Exclusion Threshold (mW)

MHz	30	35	40	45	50	mm
900	95	111	126	142	158	SAR Test Exclusion Threshold (mW)

MHz	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
900	158	218	278	338	398	458	518	578	638	698	758	818	878	938	998	mW

3.3 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 26000 MHz.
For radiated emission tests, the analyzer setting was as followings:
RES BW VID BW
Frequency <1 GHz 100 kHz 100 kHz (Peak measurements)
Frequency >1 GHz 1 MHz 1 MHz (Peak measurements)
1 MHz 1 MHz (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 960	500	54.0

For frequencies above 1GHz (Average measurements).
Guidance on Measurement of FHSS Systems:
"If the emission is pulsed, modify the unit for continues operation , use the settings shown above, then correct the reading by subtracting the peak-average correction factor, derived from the appropriate duty cycle calculation." Here the correction was added to the limit instead subtracted from the reading.

Duty cycle correction = 20 log (dwell time/100ms)

For frequencies above 1GHz (Average measurements).

Limit – duty cycle correction

No duty cycle correction was added to the reading.

54.0dBμV/m

For frequencies above 1GHz (Peak measurements).

Limit + 20dB

54.0dBμV/m + 20 dB= 74 dBμV/m

Note: See attached diagrams.

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 042,
ETSTW-RE 043, ETSTW-RE 044, ETSTW-RE 064

Registration number: W6M21509-15277-C-1
FCC ID: H5OTR64

3.4 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))

SAMPLE CALCULATION OF LIMIT. All results will be updated by an automatic measuring system in accordance to 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 an 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 “Marker-Delta-Method“ or the „Duty-Cycle Correction Factor“.

Model:	TRC967F	Date:	- -				
Mode:	- -	Temperature:	- -	°C	Engineer:	- -	
Polarization:	- -	Humidity:	- -	%			

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
- -	- -	- -	- -	- -	- -	- -	- -	- -
- -	- -	- -	- -	- -	- -	- -	- -	- -
- -	- -	- -	- -	- -	- -	- -	- -	- -
- -	- -	- -	- -	- -	- -	- -	- -	- -

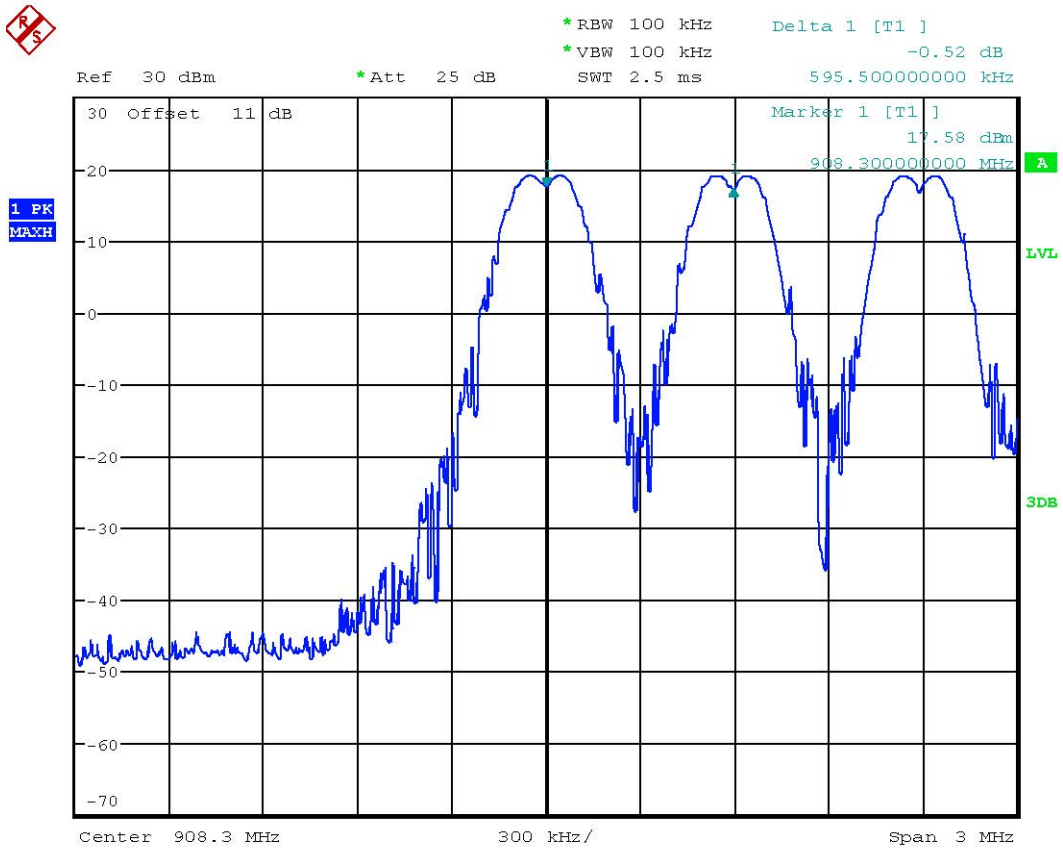
Note
1. **Correction Factor = Antenna factor + Cable loss - Preamplifier**
2. **The formula of measured value as: Test Result = Reading + Correction Factor**
3. **Detector function in the form : PK = Peak, QP = Quasi Peak, AV = Average**
4. **All not in the table noted test results are more than 20 dB below the relevant limits.**
5. **Measurement uncertainty above 1GHz: 30-1000 MHz = ± 4.32 dB, 1-18 GHz = ± 4.95 dB, 18-40 GHz= ± 2.94 dB ; Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.**
6. **Up Line: PK Limit Line, Down Line: Ave Limit Line.**
7. **Please see attached diagrams in Appendix.**

All other not noted test plots do not contain significant test results in relation to the limits.
TEST RESULT (Transmitter): The unit DOES meet the FCC requirements.
Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 042,
ETSTW-RE 043, ETSTW-RE 044, ETSTW-RE 064

3.5 Carrier Frequency Separation

Carrier Frequency Separation was measured with modulation (declared by manufacturer).

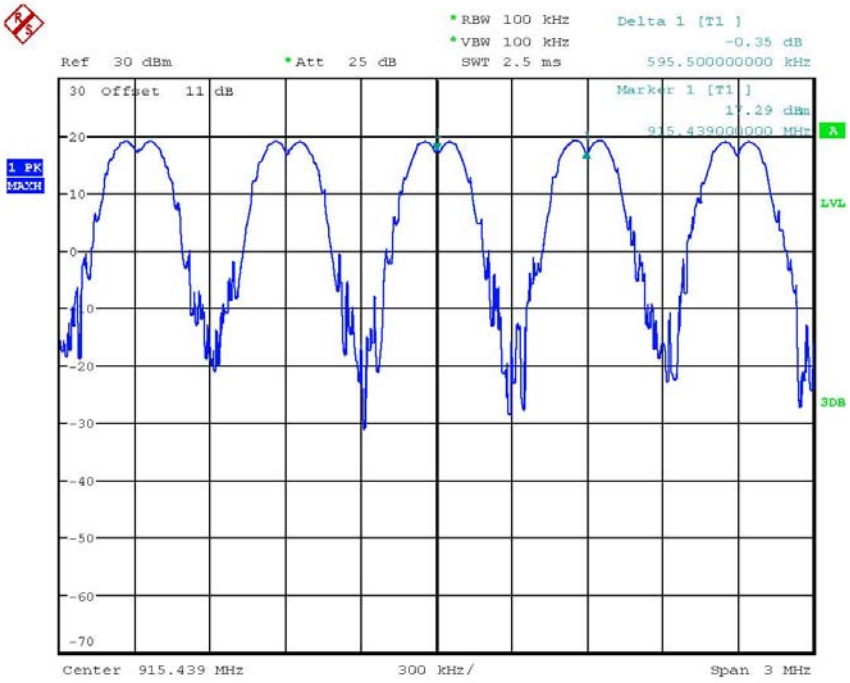
According to FCC rules part 15 subpart C §15.247 frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or 20 dB bandwidth of the hopping channel, whichever is greater.



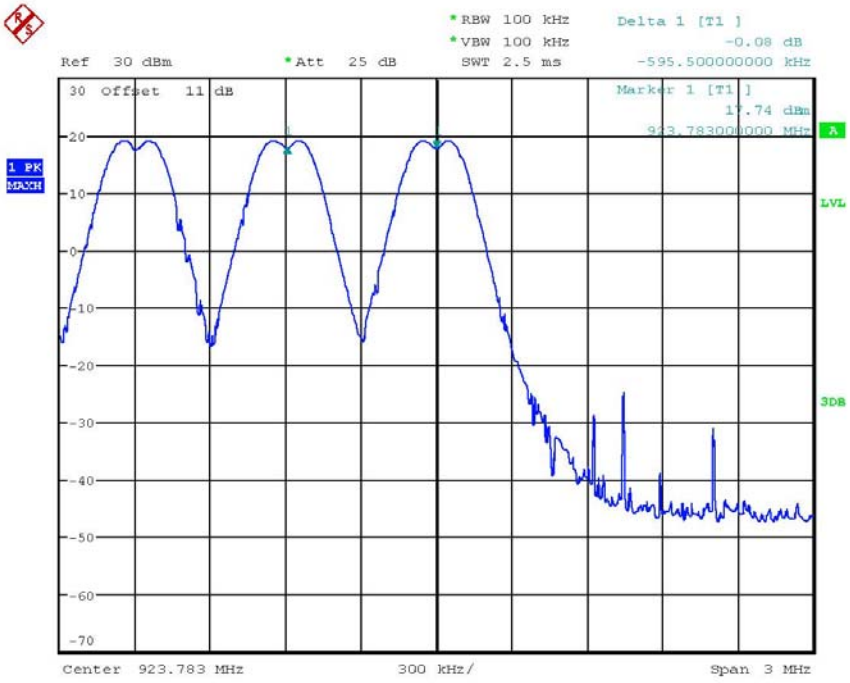
FREQUENCY SEPARATION 908.3MHz

Date: 24.SEP.2015 13:50:39

Registration number: W6M21509-15277-C-1
FCC ID: H5OTR64



FREQUENCY SEPARATION 915.439MHz
Date: 24.SEP.2015 13:49:50



FREQUENCY SEPARATION 923.783MHz
Date: 24.SEP.2015 13:48:57

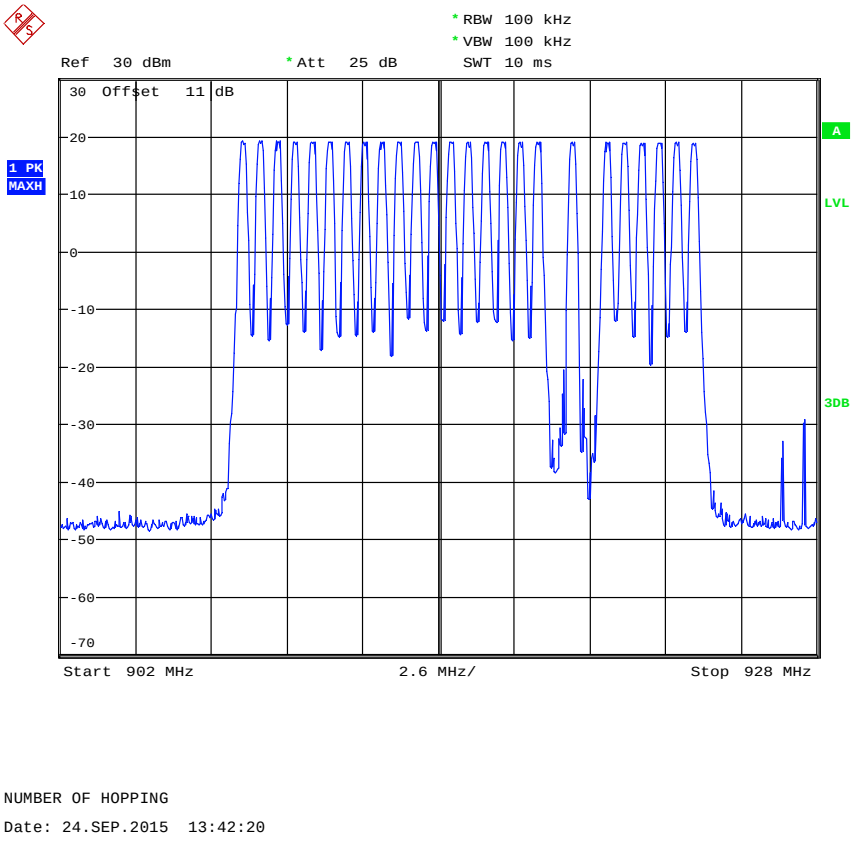
Test equipment used: ETSTW-RE 055, ETSTW-RE 064

Registration number: W6M21509-15277-C-1
FCC ID: H5OTR64

3.6 Number of Hopping Frequencies

According to FCC rules part 15 subpart C §15.247 frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping frequencies. Frequency hopping systems in 5725-5850 MHz bands shall use least 75 hopping frequencies.

For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies; if the 20dB bandwidth of the hopping channel 250 kHz or greater, the system shall use at least 25 hopping frequencies.



Limits:

Frequency Range MHz	Limit	
	20dB Bandwidth	Number of Channels
902-928 MHz	Bandwidth < 250 kHz	≥ 50
	Bandwidth ≥ 250 kHz	≥ 25
2400-2483.5	not defined	15
5725-5850.0 MHz	1 MHz	75

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

3.6.1 Pseudorandom Frequency Hopping Sequence

This FHSS transmitter is controlled by a microchip to generate the Pseudorandom Frequency Hopping Sequence. There are three hopping sequences listed below:

908.300, 908.895, 909.490, 910.085, 910.680, 911.277, 911.872, 912.467, 913.063, 913.658, 914.255, 914.850, **915.439**, 916.040, 916.635, 917.233, 917.825, 918.422, 919.612, 920.805, 921.400, 921.995, 922.590, 923.188, **923.783**

3.6.2 Coordination of hopping sequences to other transmitters

This transmitter does not have the ability of being coordinated with other FHSS system for as soon as the transmitter is in operation, the hopping frequency will follow the selected hopping sequence to transmit independently and no coordination is possible. Especially, this transmitter is used as a duplex car alarm system, so no coordination of hopping frequency is required.

3.6.3 System Receiver Hopping Capability

There are two steps to make the receiver to shift the frequencies in synchronization with the transmitted signals:
First, the Transmitter will emit a preamble signal of 50 ms and the receiver will scan this signal by 2ms sweeping until the preamble signal is caught. Second, the preamble signal is coded with the information of hopping sequence and the next transmitting frequency, so the receiver will be able to shift the receiving frequencies in synchronization with the transmitted signals.

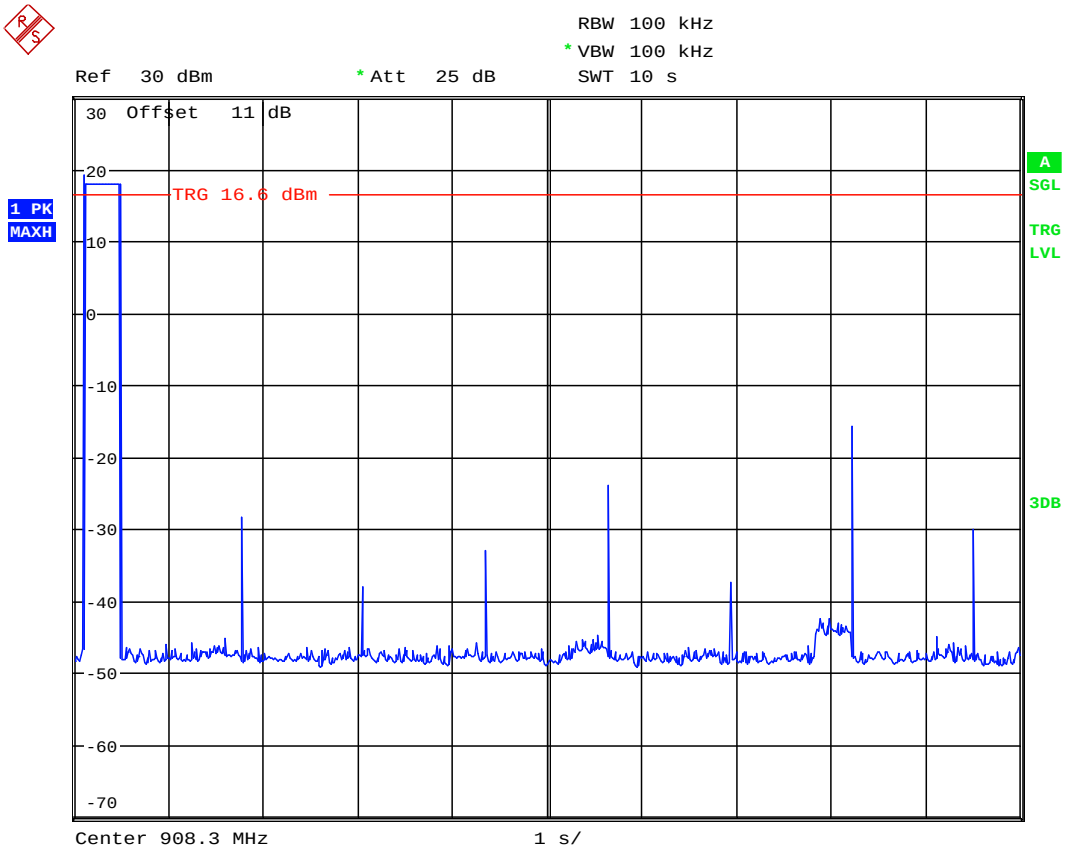
3.6.4 Equal Hopping Frequency Use

Due to each hopping frequency will be transmitted in accordance to the frequency tables described above, there is no any frequency will be able to hop more times than others. Therefore each frequency will be used equally.

3.7 Time of Occupancy (Dwell Time)

Frequency hopping systems operating in the 5725-5850 MHz band shall use an average time of occupancy on any frequency not greater than 0.4 seconds within a 30 second period.
In 2400-2483.5 MHz band the average time of occupancy on any channel shall not be greater than 0.4 seconds multiplied by the number of hopping channels employed.

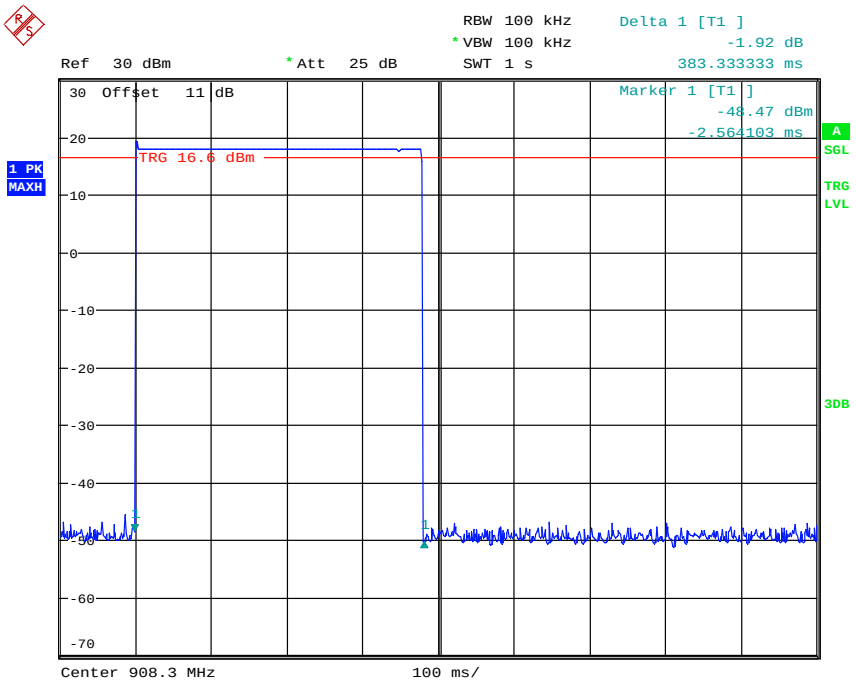
For frequency hopping systems operating in the 902-928 MHz band: if the 20dB bandwidth of the hopping channel is less than 250 kHz, the average time of occupancy on any frequency shall not greater than 0.4 seconds within a 20 second period; if the 20dB bandwidth of the hopping channel is 250 kHz or greater, the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.



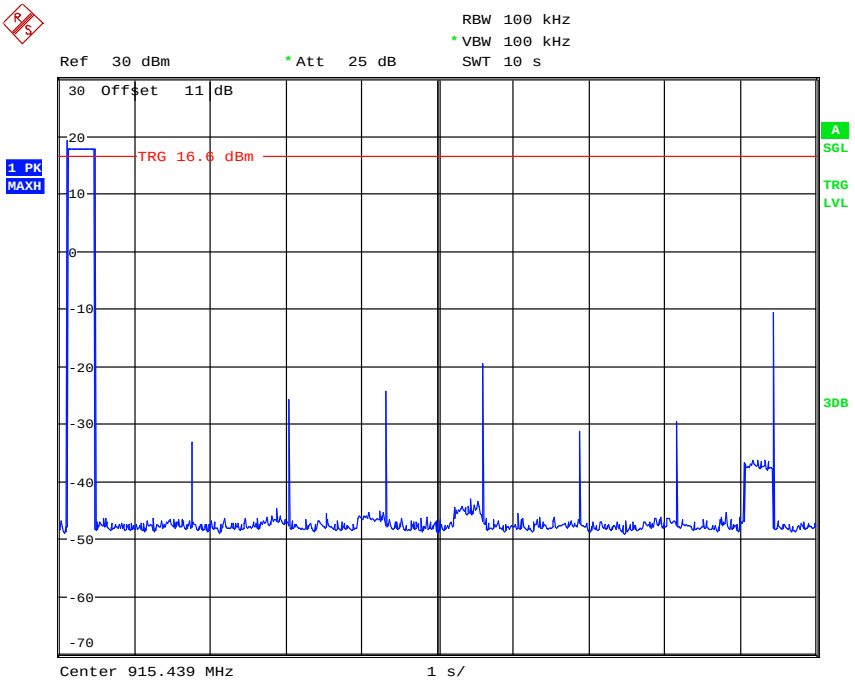
DWELL TIME 908.3MHz

Date: 24.SEP.2015 13:52:13

Registration number: W6M21509-15277-C-1
FCC ID: H5OTR64

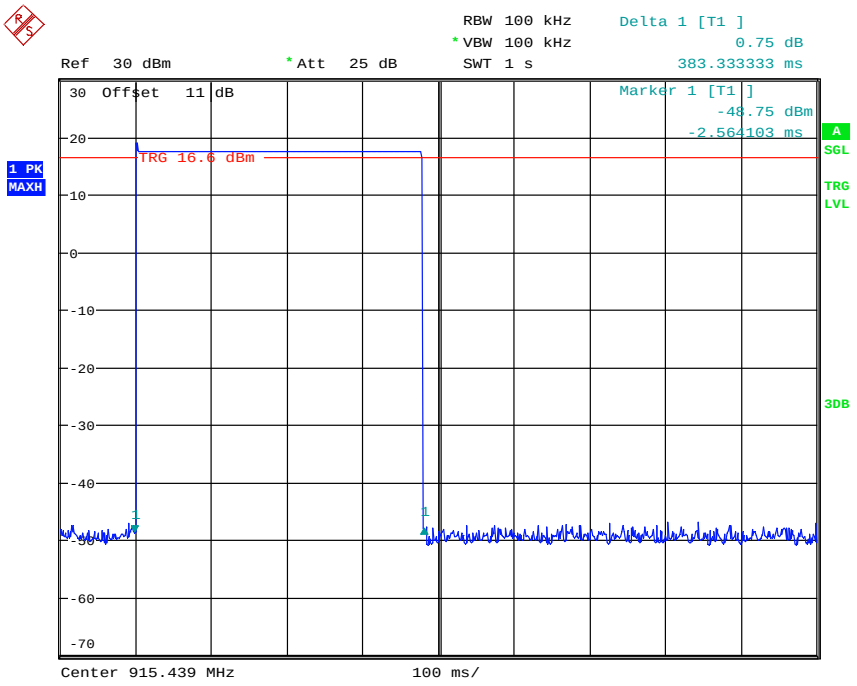


DWELL TIME 908.3MHz(383.33ms * 1event = 383.33ms)
Date: 24.SEP.2015 13:59:09

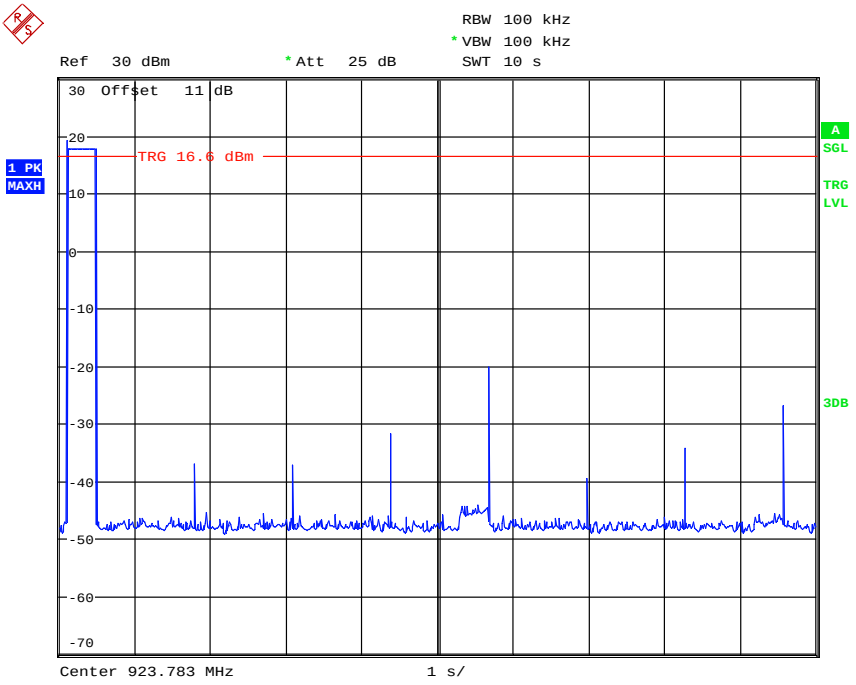


DWELL TIME 915.439MHz
Date: 24.SEP.2015 13:52:58

Registration number: W6M21509-15277-C-1
FCC ID: H5OTR64

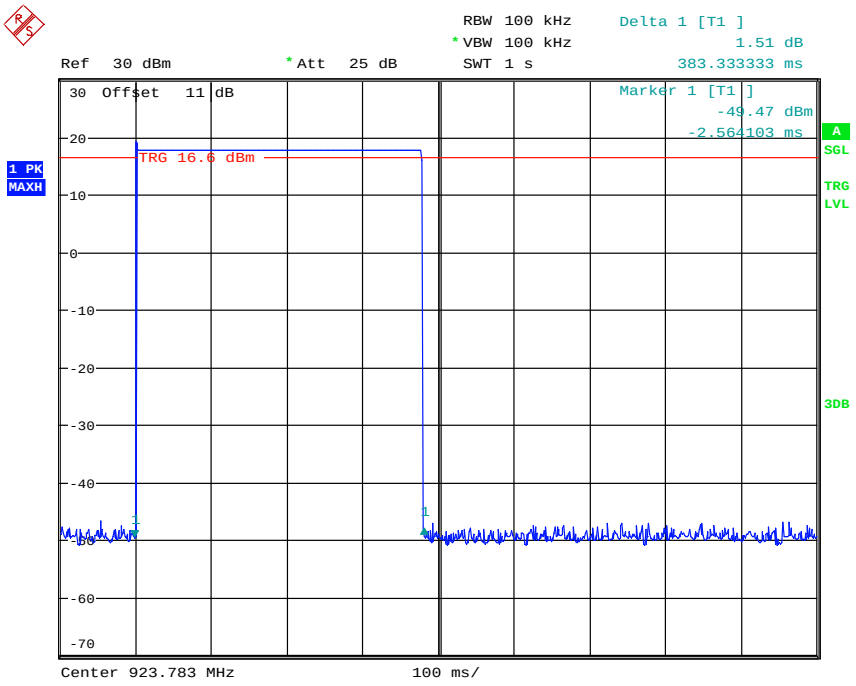


DWELL TIME 915.439MHz(383.33ms * 1event = 383.33ms)
Date: 24.SEP.2015 13:57:36



DWELL TIME 923.783MHz
Date: 24.SEP.2015 13:53:31

Registration number: W6M21509-15277-C-1
FCC ID: H5OTR64



DWELL TIME 923.783MHz(383.33ms * 1event = 383.33ms)
Date: 24.SEP.2015 13:56:47

Limits and measurement periods:

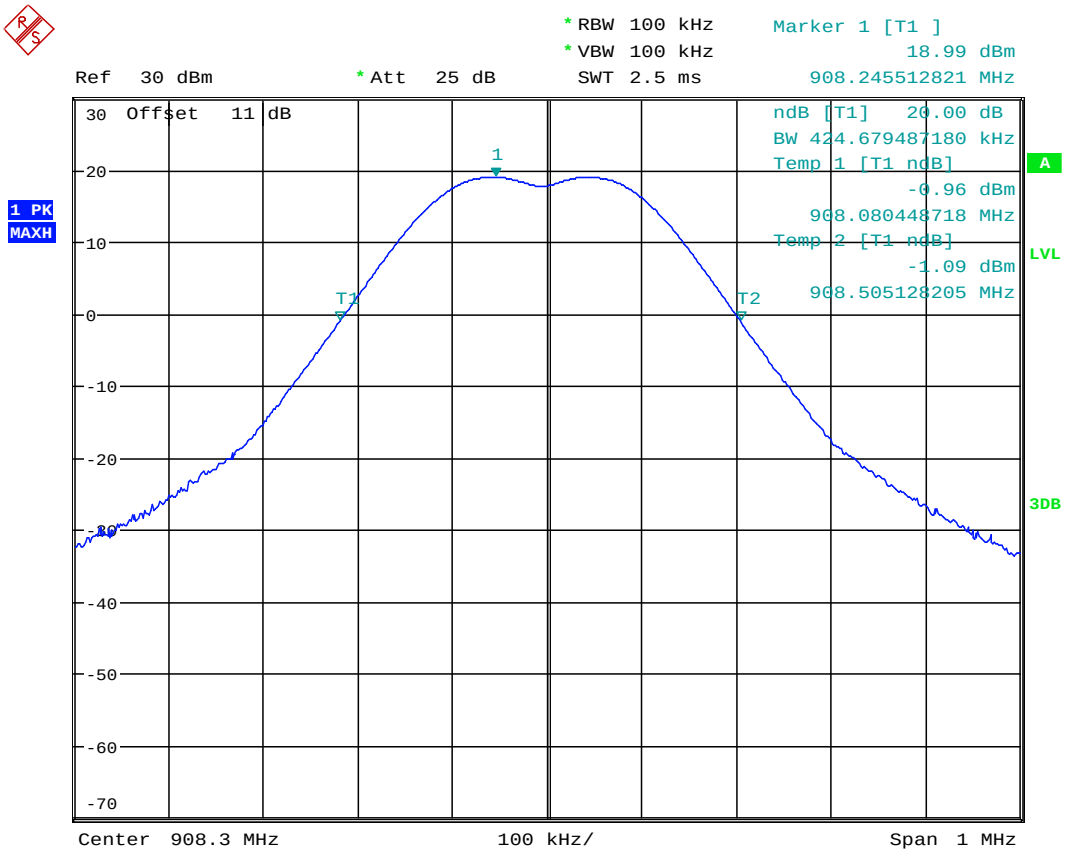
Frequency MHz	Number of channels	Measurement Period	Limit
902 – 928	≥50	20 s	0.4 s
	49 ≥ 25	10 s	0.4 s
2400 – 2483.5	≥ 15	0.4 s * number of used channels	0.4 s
5725- 5850	≥ 75	30 s	0.4s

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

3.8 20dB Bandwidth

Frequency hopping systems operating in the 5725-5850 MHz bands shall use a maximum 20dB bandwidth of 1 MHz.
The 20dB bandwidth is measured on the lowest, middle and highest hopping channel.

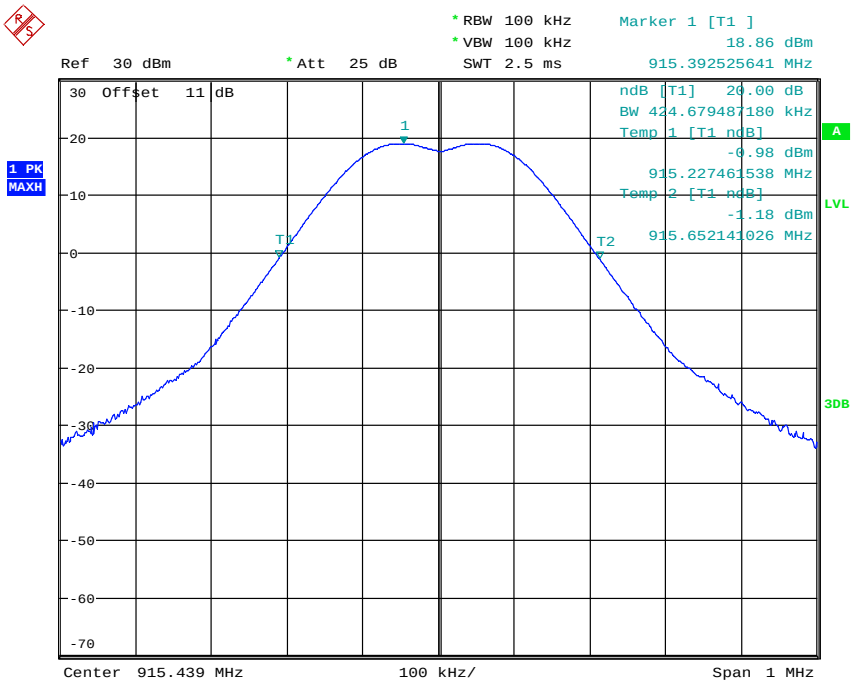
For frequency hopping systems operating in the 902-928 MHz band the maximum 20dB bandwidth of the hopping channel is 500 kHz.



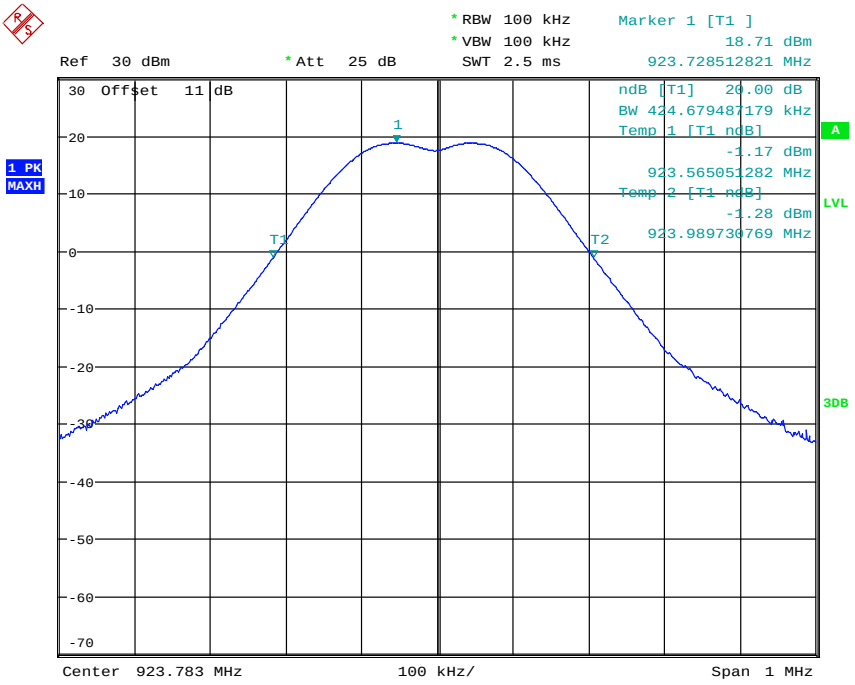
20DB BANDWIDTH 908.3MHz

Date: 24.SEP.2015 13:29:04

Registration number: W6M21509-15277-C-1
FCC ID: H5OTR64



20DB BANDWIDTH 915.439MHz
Date: 24.SEP.2015 13:29:30



20DB BANDWIDTH 923.783MHz
Date: 24.SEP.2015 13:28:31

Limits:

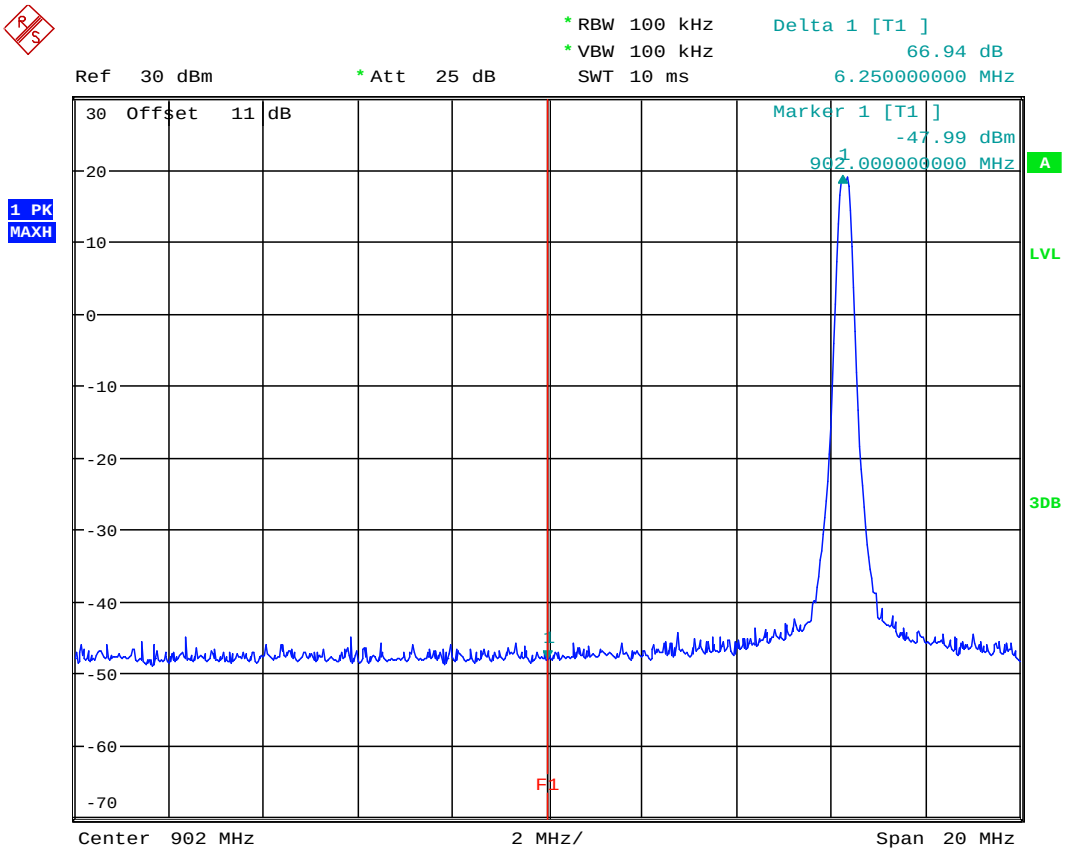
Frequency Range / MHz	Limit
902-928	≤ 500 kHz
2400-2483.5	not defined
5725-5850	≤ 1 MHz

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

3.9 Band-edge Compliance of RF Emissions

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.

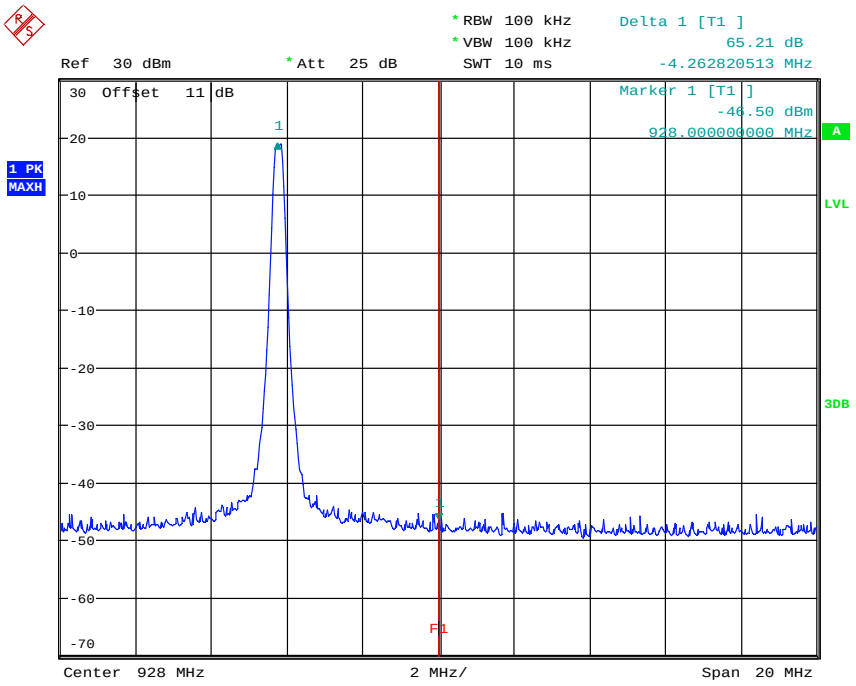
In addition radiated emission which fall in the restricted bands, as defined in section 15.205(a), must also with the radiated emission limits.



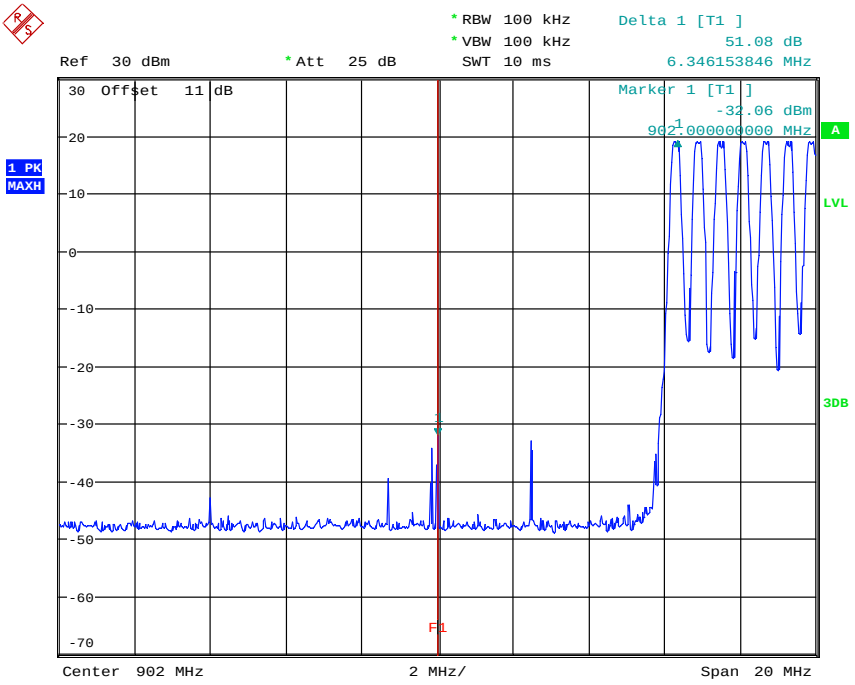
BANDEDGE 908.3MHz

Date: 24.SEP.2015 13:32:52

Registration number: W6M21509-15277-C-1
FCC ID: H5OTR64

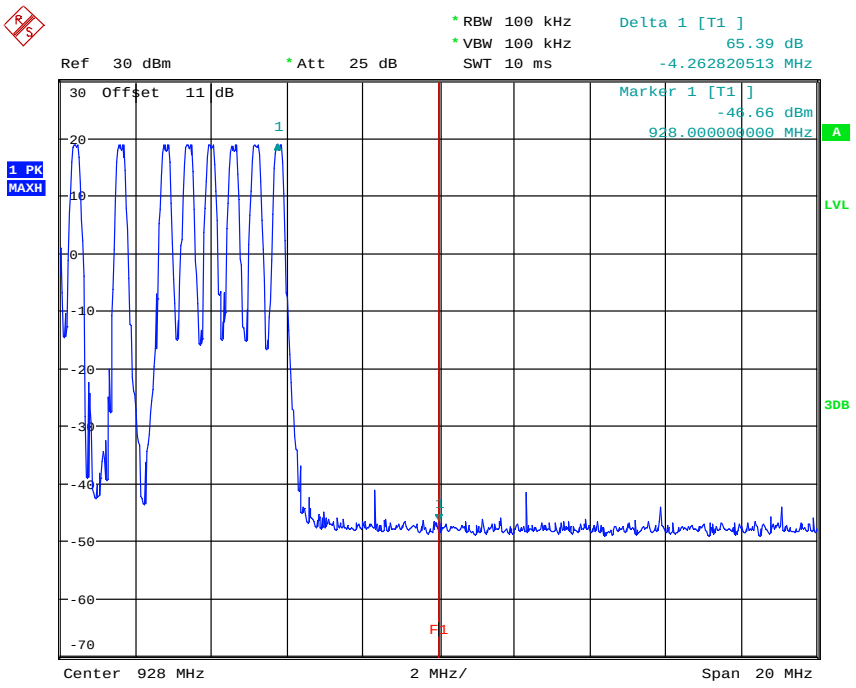


BANDEDGE 923.783MHz
Date: 24.SEP.2015 13:34:32



BANDEDGE HOPPING MODE 908.3MHz
Date: 24.SEP.2015 13:39:06

Registration number: W6M21509-15277-C-1
FCC ID: H5OTR64



BANDEDGE HOPPING MODE 923.783MHz
Date: 24.SEP.2015 13:37:29

Limits:

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

Test equipment used: ETSTW-RE 055, ETSTW-RE 064

3.10 Radiated Emissions from Receiver Section of Transceiver

FCC Rule: 15.109

Model: TRC967F Date: - -
Mode: - - Temperature: - - °C Engineer: - -
Polarization: - - Humidity: - - %

Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
- -	- -	- -	- -	- -	- -	- -	- -	- -
- -	- -	- -	- -	- -	- -	- -	- -	- -
- -	- -	- -	- -	- -	- -	- -	- -	- -
- -	- -	- -	- -	- -	- -	- -	- -	- -

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 above 1GHz: 30-1000 MHz = ± 4.32 dB, 1-18 GHz = ± 4.95 dB, 18-40 GHz= ± 2.94 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.**
7. **Please refer to separated test report no.: W6M21509-15277-P-15B.**

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:

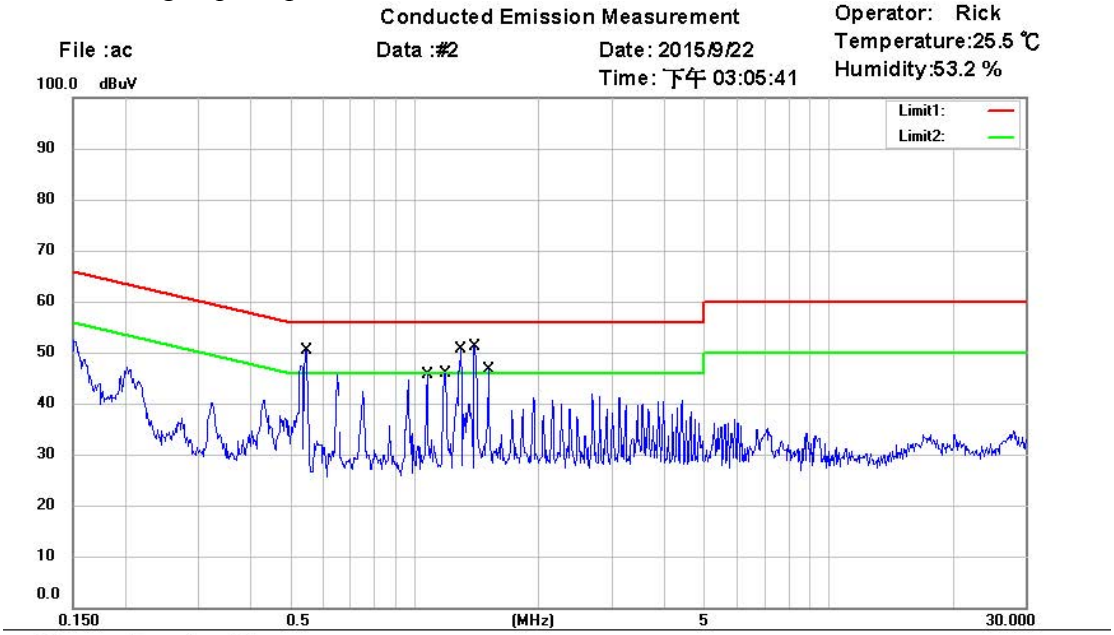
Frequency of Emission (MHz)	Field Strength (microvolts/meter)	Field Strength (dBmicrovolts/meter)
30 – 88	100	40.0
88 – 216	150	43.5
216 – 960	200	46.0
Above 960	500	54.0

Test equipment used: ETSTW-RE 004, ETSTW-RE 030, ETSTW-RE 042,
ETSTW-RE 043, ETSTW-RE 044, ETSTW-RE 064

3.11 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.

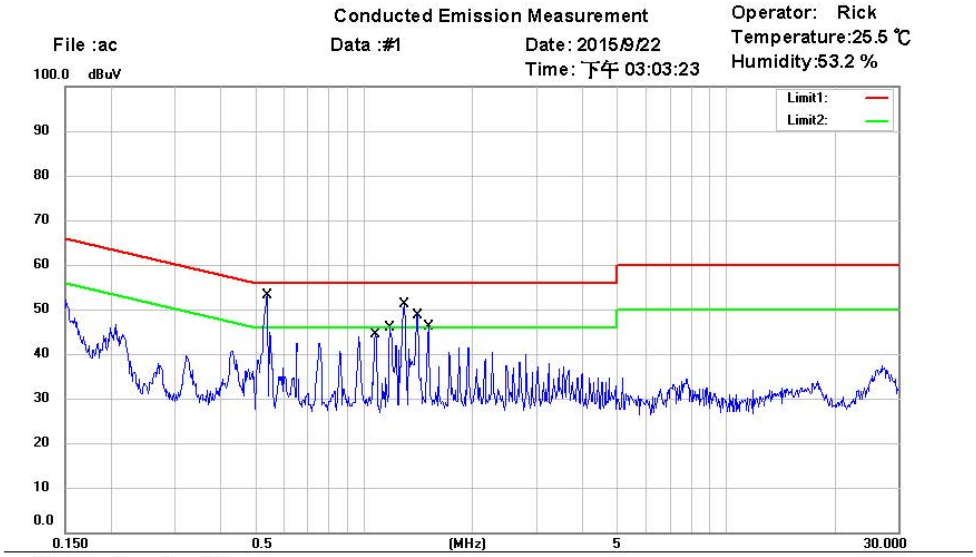
This measurement was transact first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector.



Site : Chamber_03
Condition : FCC Part 15 Class B Conduction (QP)
Phase: N
EUT : W6M21509-15277
Power : 120Va.c.
M/N:
Test Mode : Charge
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
	0.5450	28.07	QP	9.73	37.80	56.00	-18.20	
	0.5450	9.46	AVG	9.73	19.19	46.00	-26.81	
	1.0760	33.89	QP	9.75	43.64	56.00	-12.36	
	1.0760	20.45	AVG	9.75	30.20	46.00	-15.80	
	1.1861	29.11	QP	9.76	38.87	56.00	-17.13	
	1.1861	14.24	AVG	9.76	24.00	46.00	-22.00	
	1.2942	32.69	QP	9.76	42.45	56.00	-13.55	
	1.2942	12.03	AVG	9.76	21.79	46.00	-24.21	
*	1.3977	38.31	QP	9.77	48.08	56.00	-7.92	
	1.3977	21.91	AVG	9.77	31.68	46.00	-14.32	
	1.5057	34.57	QP	9.77	44.34	56.00	-11.66	
	1.5057	19.76	AVG	9.77	29.53	46.00	-16.47	

Registration number: W6M21509-15277-C-1
FCC ID: H5OTR64



Site : Chamber_03
Condition : FCC Part 15 Class B Conduction (QP)
Phase: L1
EUT : W6M21509-15277
Power : 120Va.c.
M/N:
Test Mode : Charge
Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corrected factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Comment
*	0.5404	40.45	QP	9.73	50.18	56.00	-5.82	
	0.5404	21.87	AVG	9.73	31.60	46.00	-14.40	
	1.0805	29.42	QP	9.75	39.17	56.00	-16.83	
	1.0805	13.14	AVG	9.75	22.89	46.00	-23.11	
	1.1840	31.94	QP	9.76	41.70	56.00	-14.30	
	1.1840	16.32	AVG	9.76	26.08	46.00	-19.92	
	1.2920	35.78	QP	9.76	45.54	56.00	-10.46	
	1.2920	16.88	AVG	9.76	26.64	46.00	-19.36	
	1.4045	31.47	QP	9.77	41.24	56.00	-14.76	
	1.4045	12.23	AVG	9.77	22.00	46.00	-24.00	
	1.5080	33.62	QP	9.77	43.39	56.00	-12.61	
	1.5080	16.47	AVG	9.77	26.24	46.00	-19.76	

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 = ±1.67 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.**

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-RE 064

Appendix

Measurement diagrams

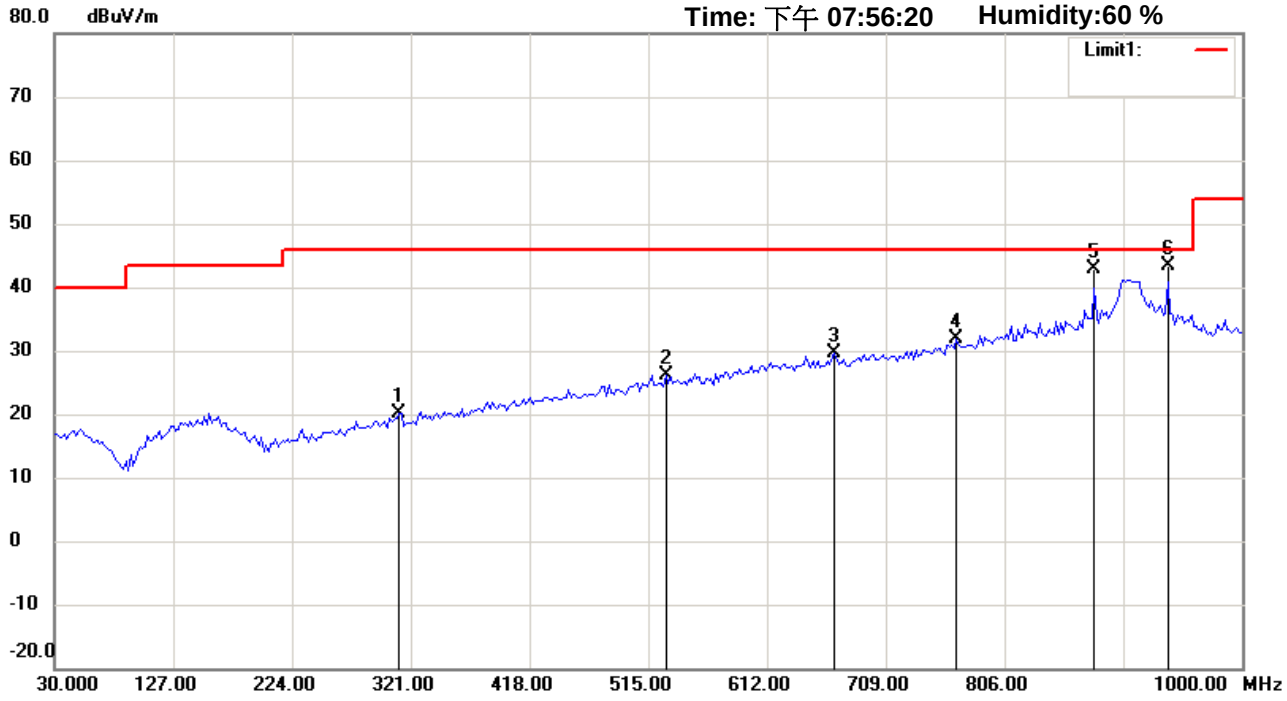
Spurious Emissions radiated_TX

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :1 Data :#1 Date: 2015/9/19 Time: 下午 07:56:20 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.3MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	311.8637	3.75	peak	16.36	20.11	46.00	100	35	-25.89	
	529.5792	4.57	peak	21.52	26.09	46.00	100	210	-19.91	
	667.5952	4.96	peak	24.79	29.75	46.00	100	40	-16.25	
	766.7335	5.79	peak	26.15	31.94	46.00	100	190	-14.06	
	879.4790	14.95	peak	28.04	42.99	46.00	100	125	-3.01	
*	938.3232	15.10	peak	28.40	43.50	46.00	100	90	-2.50	

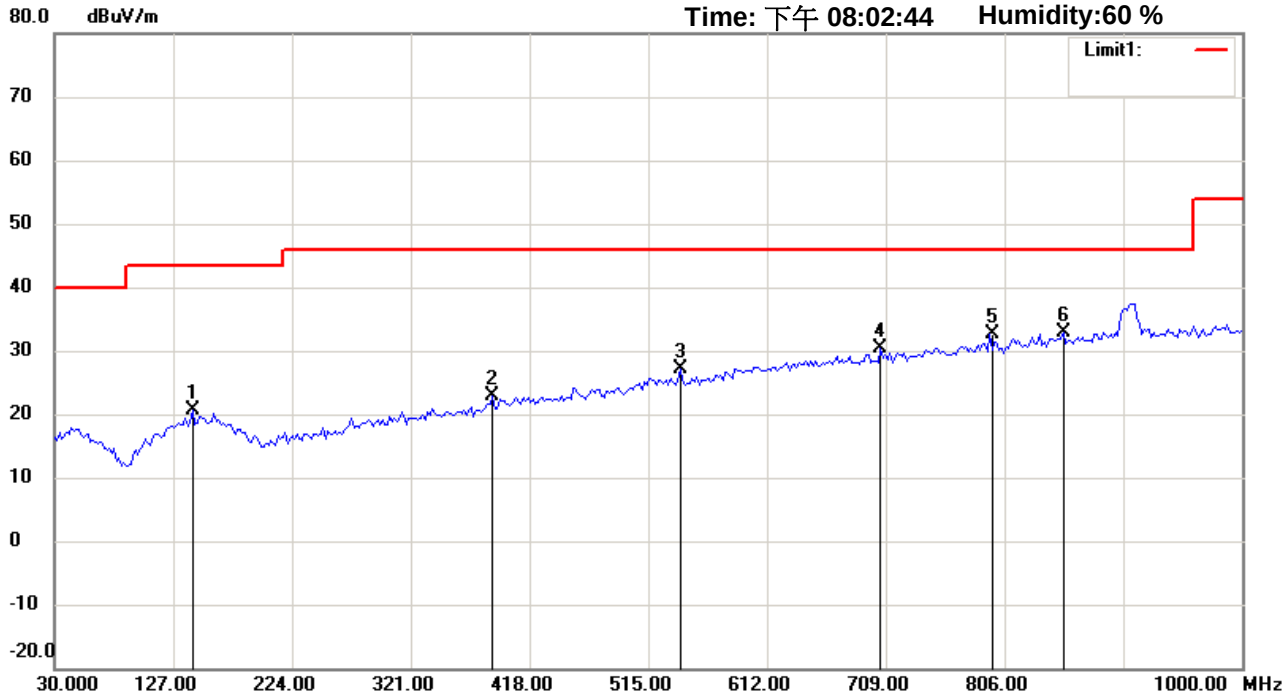
*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
Fax:+886-2-6606-8875

Radiated Emission Measurement

Operator: Leon

File :1 Data :#2 Date: 2015/9/19 Time: 下午 08:02:44 Temperature:24 ℃ Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class C_30-1000MHz
EUT : W6M21509-15277
M/N:
Test Mode : TX 908.3MHz
Note :

Polarization: *Vertical*
Power : 3.7 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	142.7455	5.12	peak	15.43	20.55	43.50	100	115	-22.95	
	387.6754	4.57	peak	18.39	22.96	46.00	100	60	-23.04	
	541.2425	5.43	peak	21.66	27.09	46.00	100	230	-18.91	
	704.5291	5.08	peak	25.28	30.36	46.00	100	245	-15.64	
	793.9480	6.14	peak	26.52	32.66	46.00	100	170	-13.34	
*	854.2084	5.36	peak	27.61	32.97	46.00	100	90	-13.03	

*:Maximum data x:Over limit !:over margin

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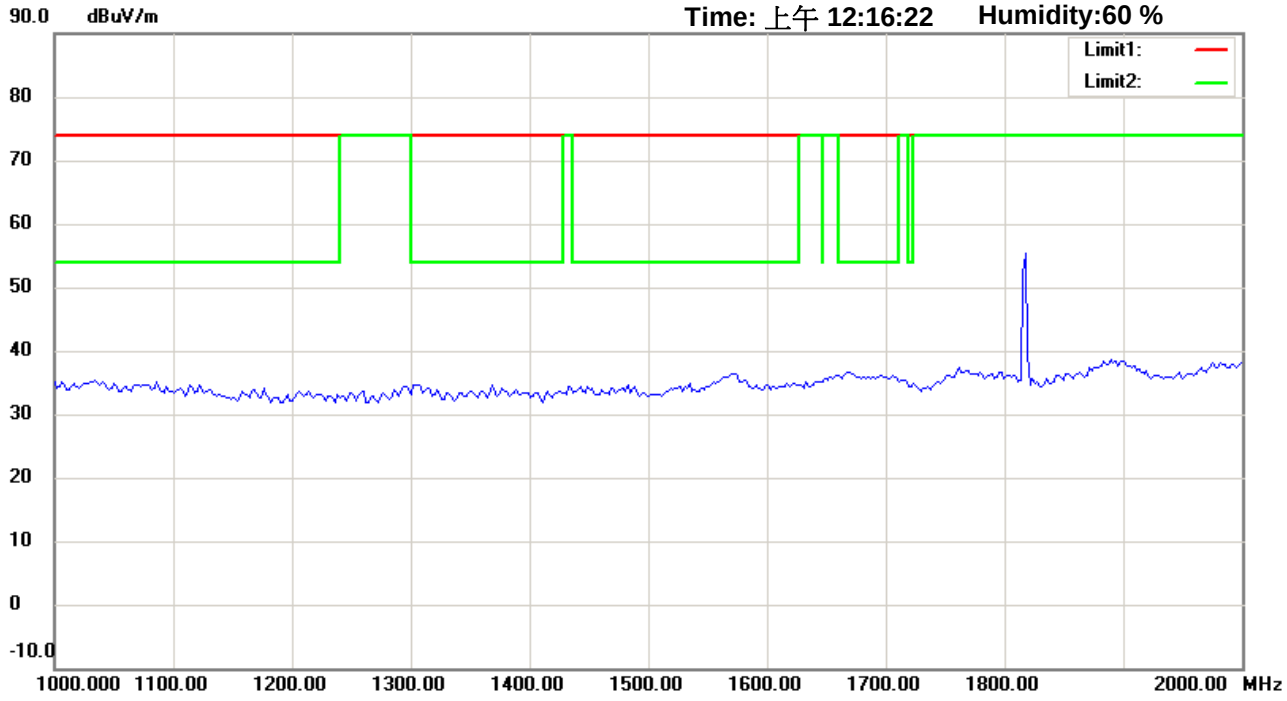
Radiated Emission Measurement

Operator: Leon

File :3 Data :#1 Date: 2015/9/20 Time: 上午 12:16:22 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.3MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
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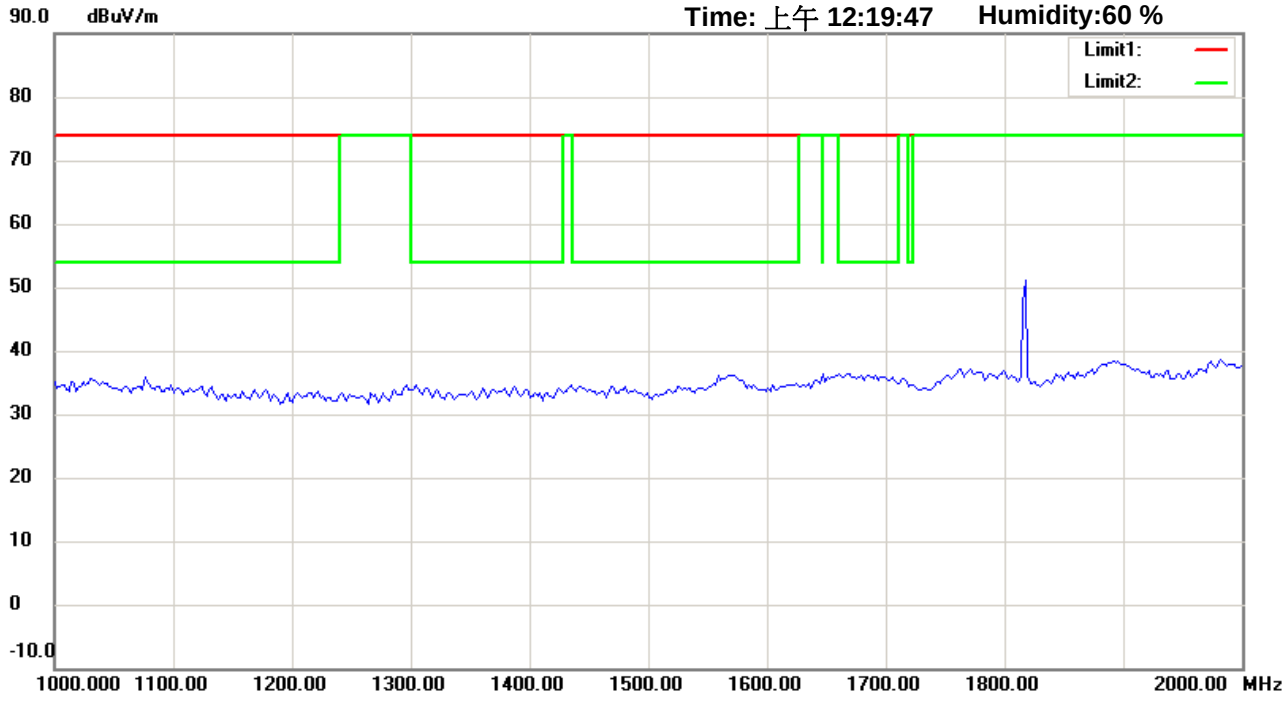
Radiated Emission Measurement

Operator: Leon

File :3 Data :#7 Date: 2015/9/20 Time: 上午 12:19:47 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.3MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
Tel:+886-2-6606-8877
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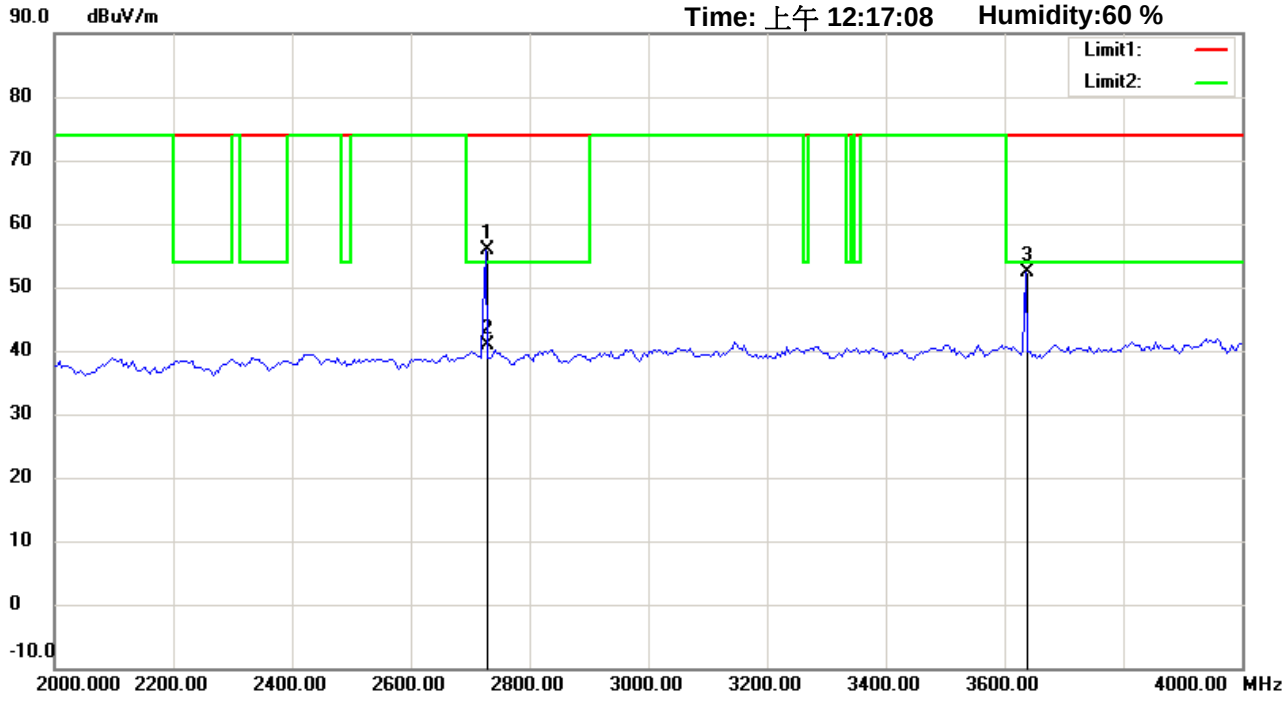
Radiated Emission Measurement

Operator: Leon

File :3 Data :#2 Date: 2015/9/20 Temperature:24 ℃

Time: 上午 12:17:08 Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

EUT : W6M21509-15277

M/N:

Test Mode : TX 908.3MHz

Note :

Polarization: *Horizontal*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2725.451	58.79	peak	-3.03	55.76	74.00	100	155	-18.24	
*	2725.451	44.00	AVG	-3.03	40.97	54.00	100	155	-13.03	
	3635.271	53.47	peak	-1.17	52.30	74.00	100	90	-21.70	

*:Maximum data x:Over limit !:over margin

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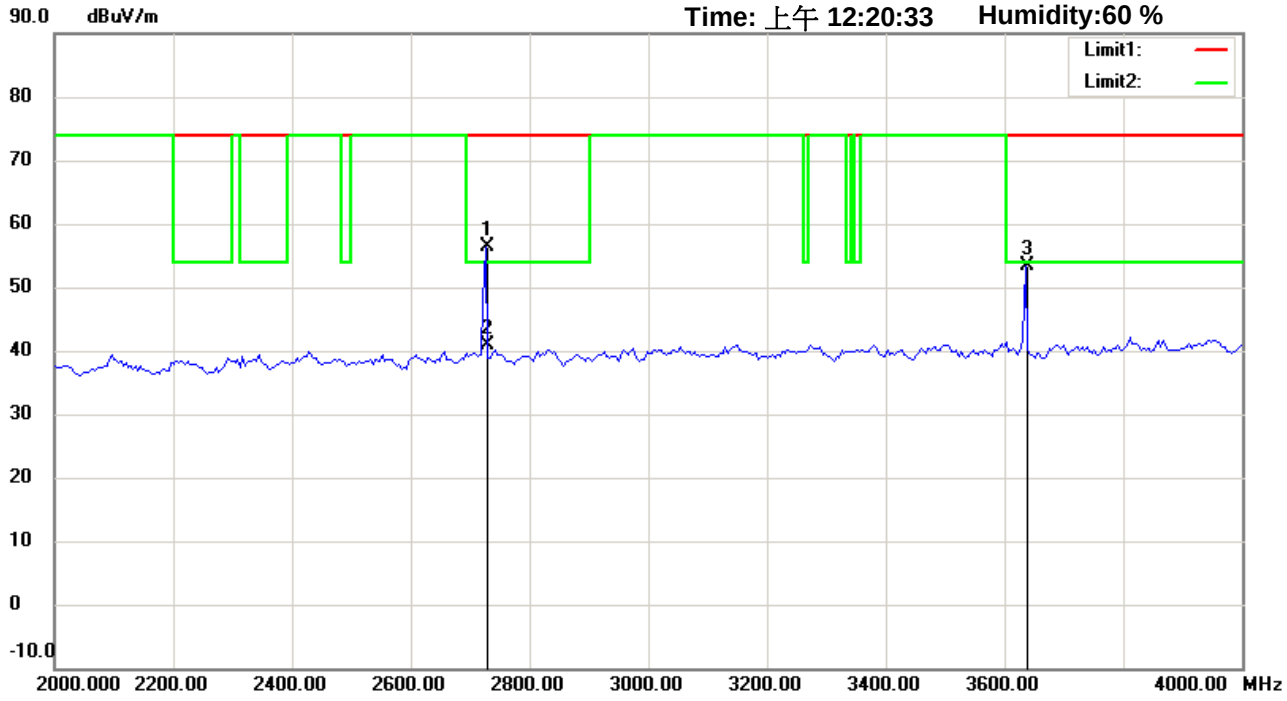
Radiated Emission Measurement

Operator: Leon
File :3 Data :#8 Date: 2015/9/20 Temperature:24 ℃
Time: 上午 12:20:33 Humidity:60 %



Site : Chamber
Condition : FCC Restriction Band_Above 1GHz_PK
EUT : W6M21509-15277
M/N:
Test Mode : TX 908.3MHz
Note :

Polarization: *Vertical*
Power : 3.7 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2725.451	59.51	peak	-3.03	56.48	74.00	100	135	-17.52	
*	2725.451	43.97	AVG	-3.03	40.94	54.00	100	135	-13.06	
	3635.271	54.44	peak	-1.17	53.27	74.00	100	95	-20.73	

*:Maximum data x:Over limit !:over margin

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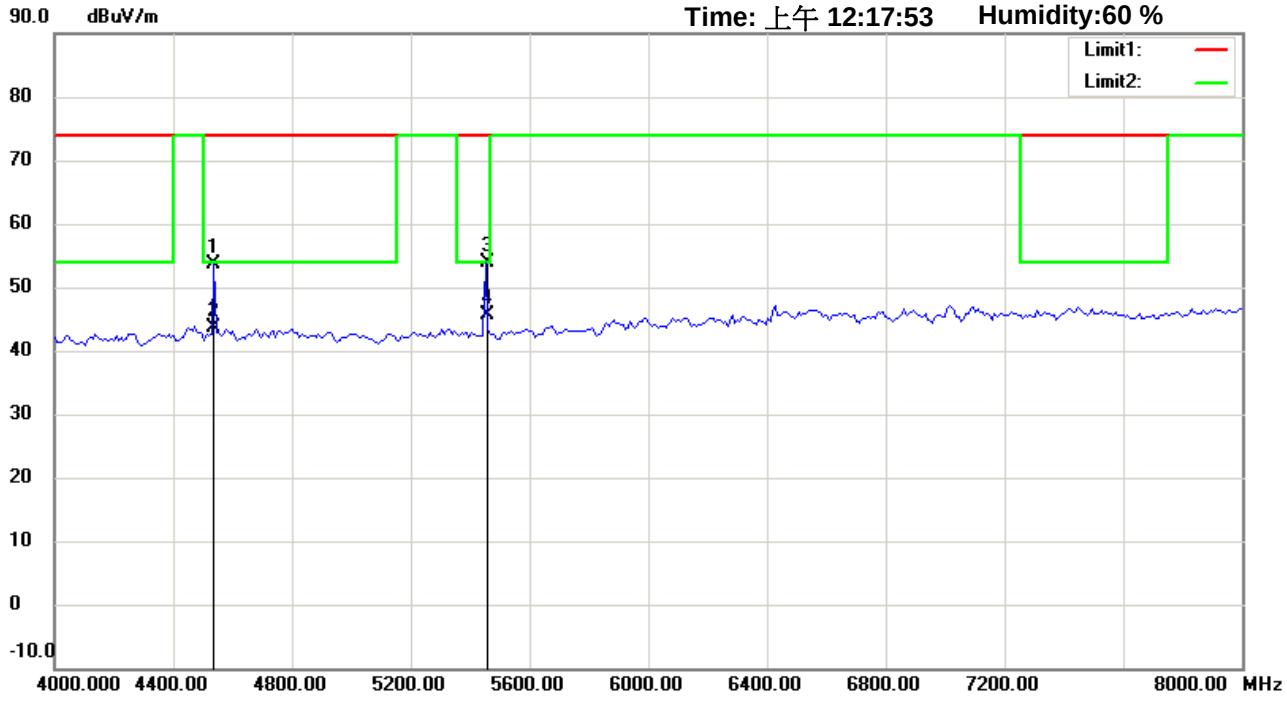
Radiated Emission Measurement

Operator: Leon
File :3 Data :#3 Date: 2015/9/20 Temperature:24 ℃
Time: 上午 12:17:53 Humidity:60 %



Site : Chamber
Condition : FCC Restriction Band_Above 1GHz_PK
EUT : W6M21509-15277
M/N:
Test Mode : TX 908.3MHz
Note :

Polarization: *Horizontal*
Power : 3.7 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4537.074	52.53	peak	1.00	53.53	74.00	100	155	-20.47	
	4537.074	42.63	AVG	1.00	43.63	54.00	100	155	-10.37	
	5450.902	51.42	peak	2.38	53.80	74.00	100	130	-20.20	
*	5450.902	43.35	AVG	2.38	45.73	54.00	100	130	-8.27	

*:Maximum data x:Over limit !:over margin

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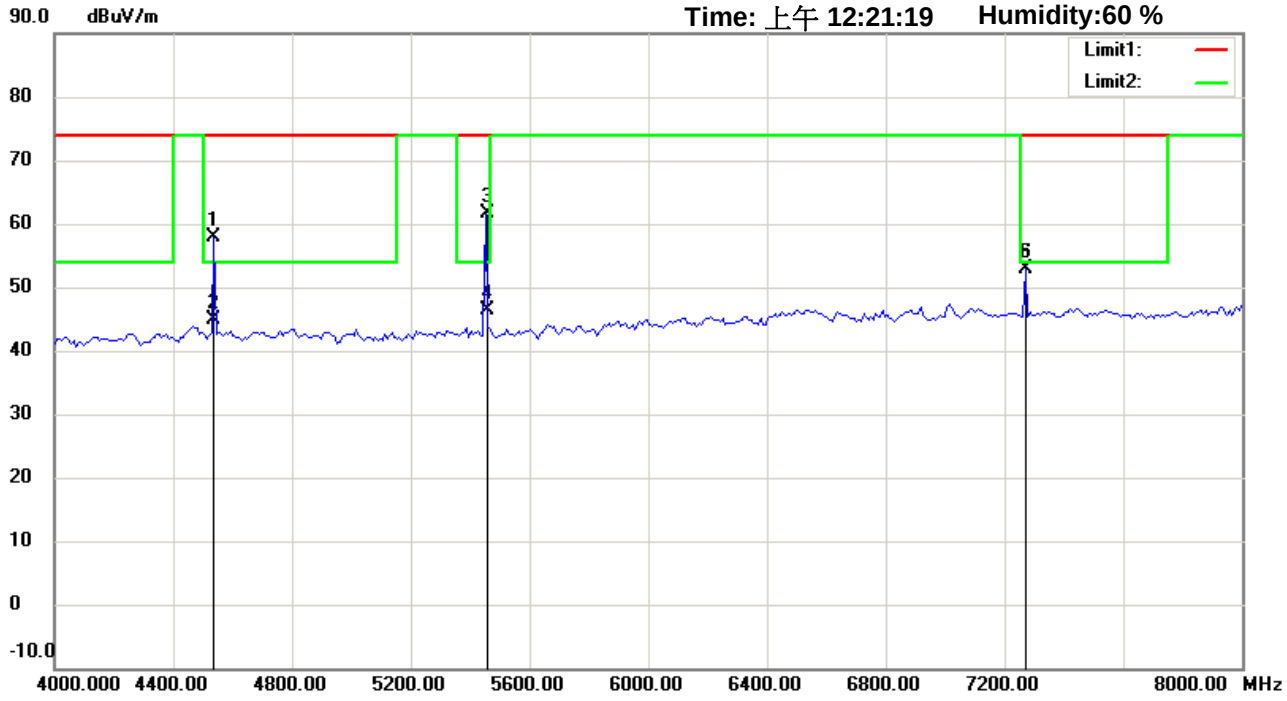
Radiated Emission Measurement

Operator: Leon

File :3 Data :#9 Date: 2015/9/20 Temperature:24 ℃

Time: 上午 12:21:19 Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

EUT : W6M21509-15277

M/N:

Test Mode : TX 908.3MHz

Note :

Polarization: *Vertical*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4537.074	56.83	peak	1.00	57.83	74.00	100	235	-16.17	
	4537.074	43.99	AVG	1.00	44.99	54.00	100	235	-9.01	
	5450.902	59.30	peak	2.38	61.68	74.00	100	90	-12.32	
	5450.902	44.00	AVG	2.38	46.38	54.00	100	90	-7.62	
	7270.541	48.08	peak	4.83	52.91	74.00	100	150	-21.09	
*	7270.541	47.96	AVG	4.83	52.79	54.00	100	150	-1.21	

*:Maximum data x:Over limit !:over margin

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Tel:+886-2-6606-8877
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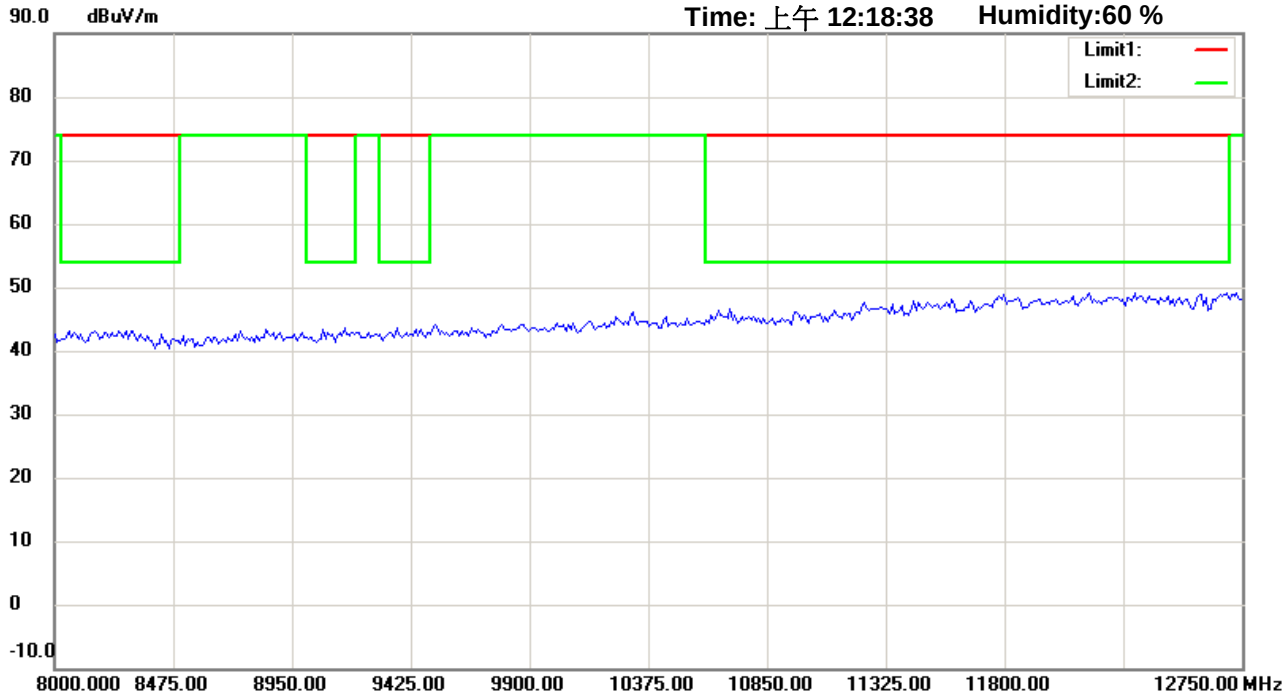
Radiated Emission Measurement

Operator: Leon

File :3 Data :#4 Date: 2015/9/20 Time: 上午 12:18:38

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.3MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
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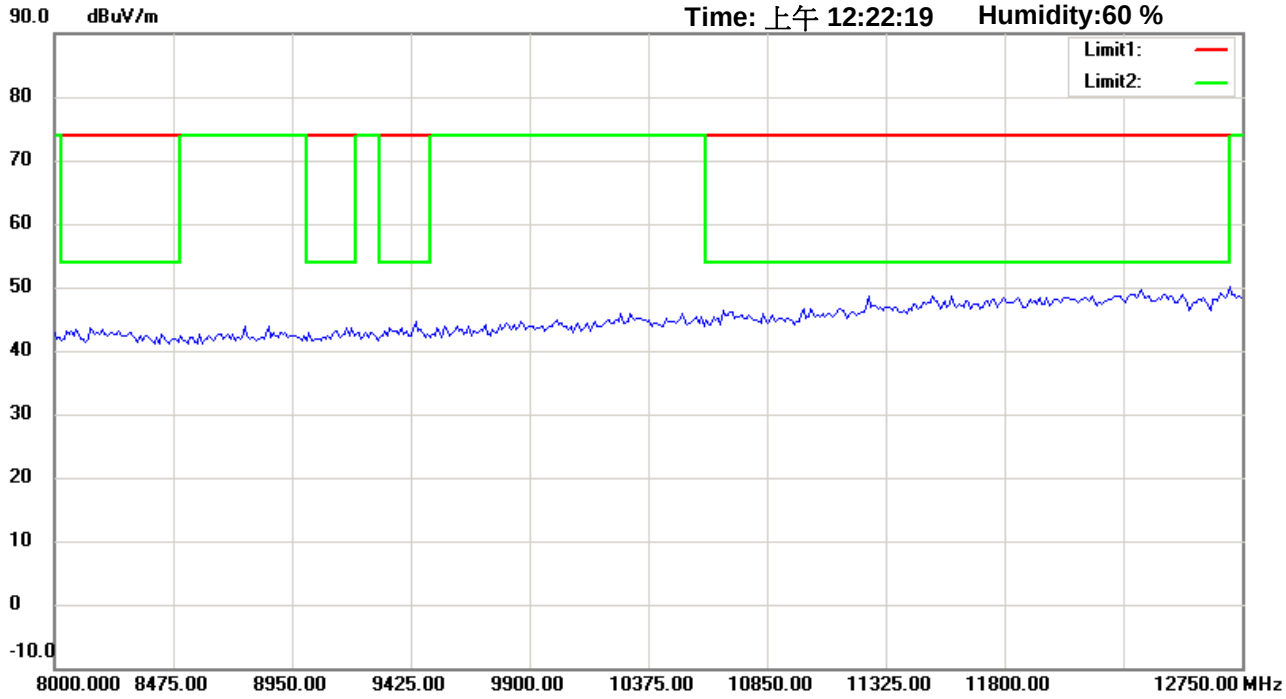
Radiated Emission Measurement

Operator: Leon

File :3 Data :#10 Date: 2015/9/20 Time: 上午 12:22:19

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 908.3MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
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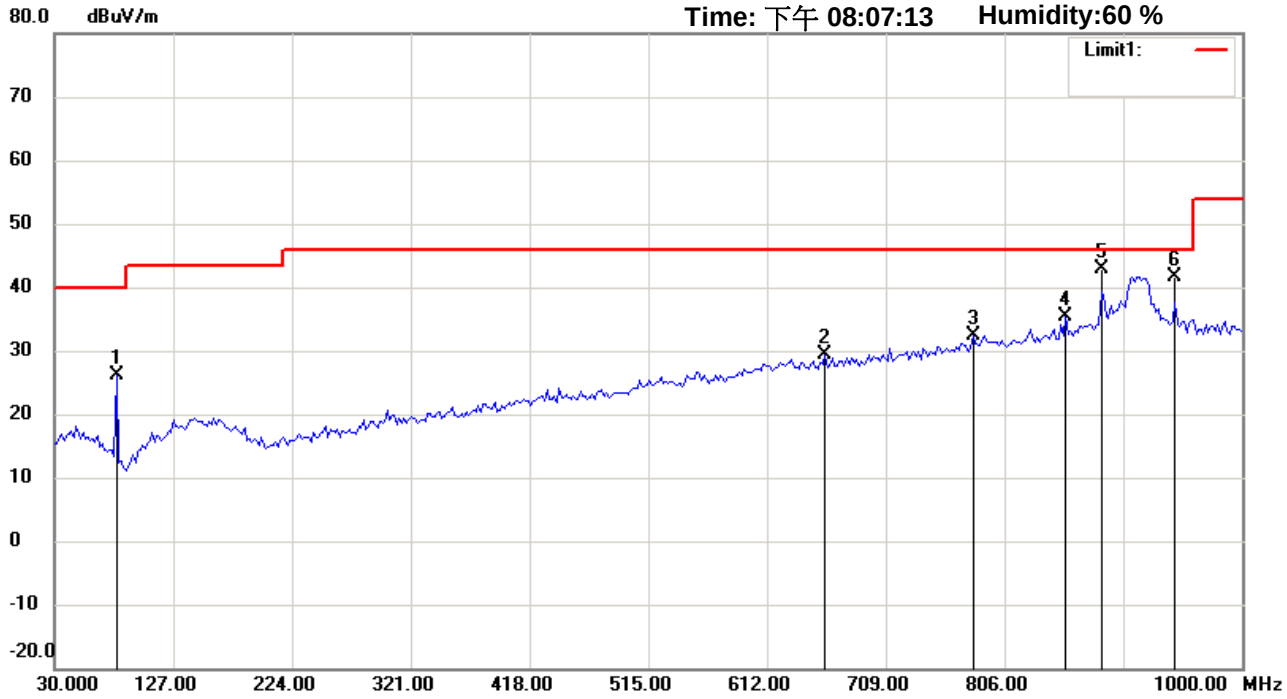
Radiated Emission Measurement

Operator: Leon

File :1 Data :#1 Date: 2015/9/19 Time: 下午 08:07:13 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.439MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	80.5411	16.13	peak	9.97	26.10	40.00	100	0	-13.90	
	659.8196	4.81	peak	24.69	29.50	46.00	100	155	-16.50	
	780.3407	5.97	peak	26.34	32.31	46.00	100	95	-13.69	
	856.1523	7.66	peak	27.64	35.30	46.00	100	130	-10.70	
*	885.3106	14.63	peak	28.13	42.76	46.00	100	175	-3.24	
	945.5711	13.27	peak	28.40	41.67	46.00	100	80	-4.33	

*:Maximum data x:Over limit !:over margin

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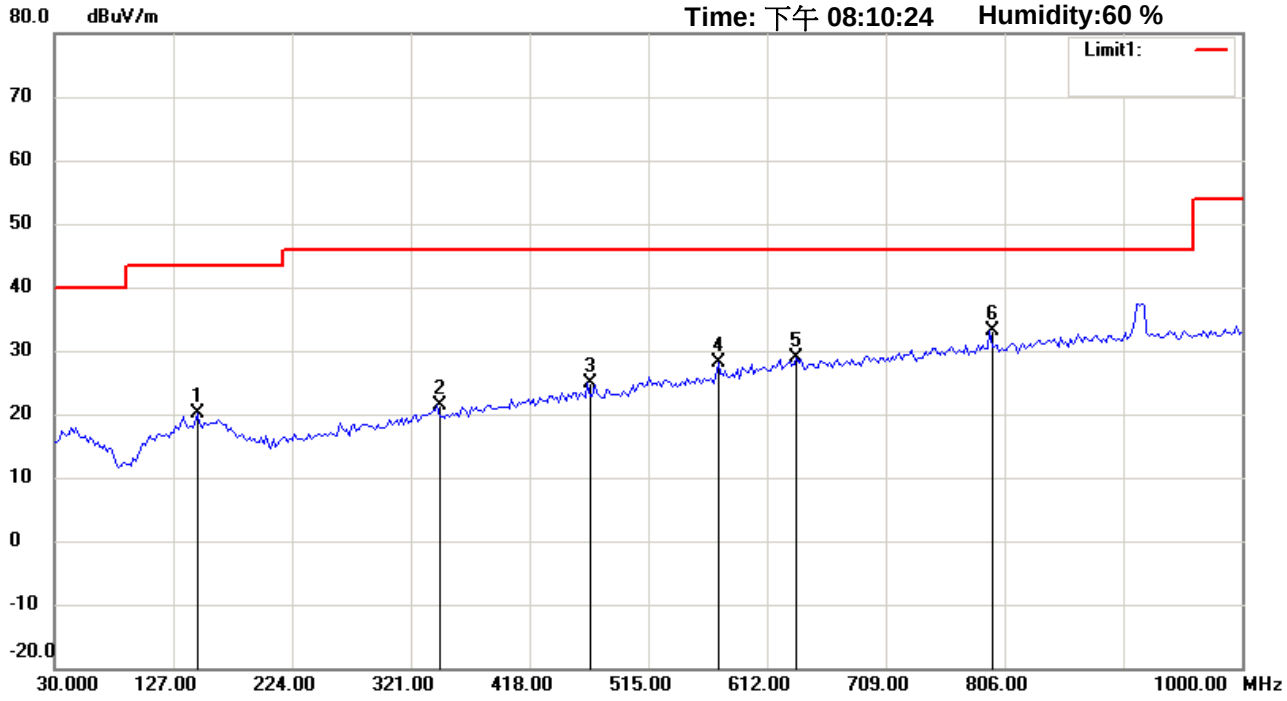
Radiated Emission Measurement

Operator: Leon
File :1 Data :#2 Date: 2015/9/19 Temperature:24 ℃
Time: 下午 08:10:24 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class C_30-1000MHz
EUT : W6M21509-15277
M/N:
Test Mode : TX 915.439MHz
Note :

Polarization: *Vertical*
Power : 3.7 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	146.6333	4.78	peak	15.47	20.25	43.50	100	255	-23.25	
	342.9660	4.13	peak	17.19	21.32	46.00	100	170	-24.68	
	465.4310	4.72	peak	20.27	24.99	46.00	100	230	-21.01	
	572.3447	5.79	peak	22.46	28.25	46.00	100	165	-17.75	
	636.4930	4.54	peak	24.25	28.79	46.00	100	90	-17.21	
*	793.9480	6.50	peak	26.52	33.02	46.00	100	40	-12.98	

*:Maximum data x:Over limit !:over margin

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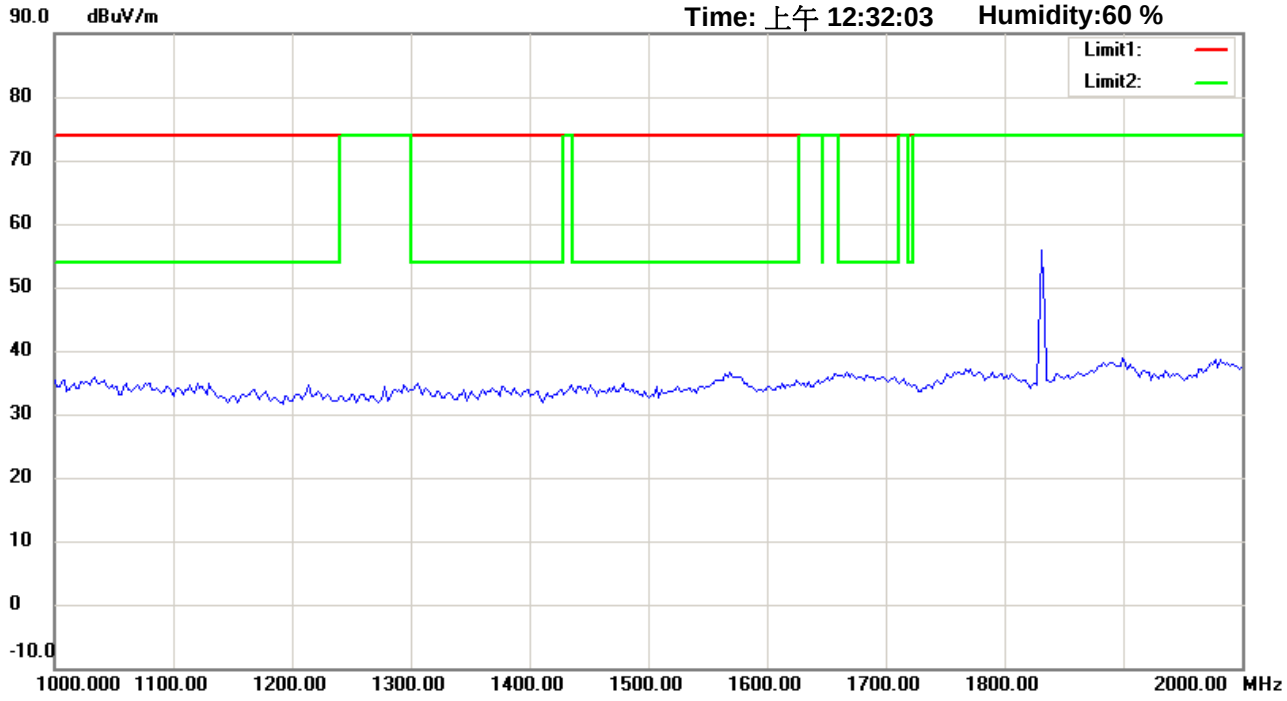
Radiated Emission Measurement

Operator: Leon

File :3 Data :#1 Date: 2015/9/20 Time: 上午 12:32:03 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.439MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
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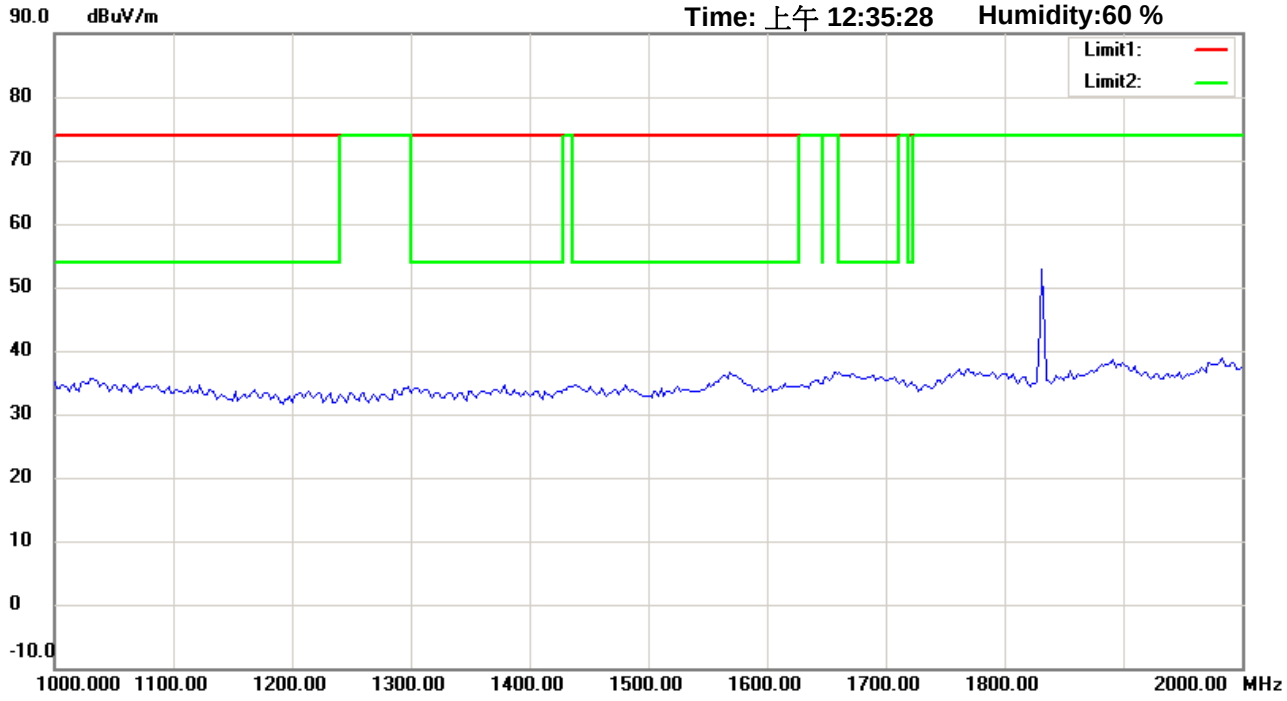
Radiated Emission Measurement

Operator: Leon

File :3 Data :#7 Date: 2015/9/20 Time: 上午 12:35:28

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.439MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

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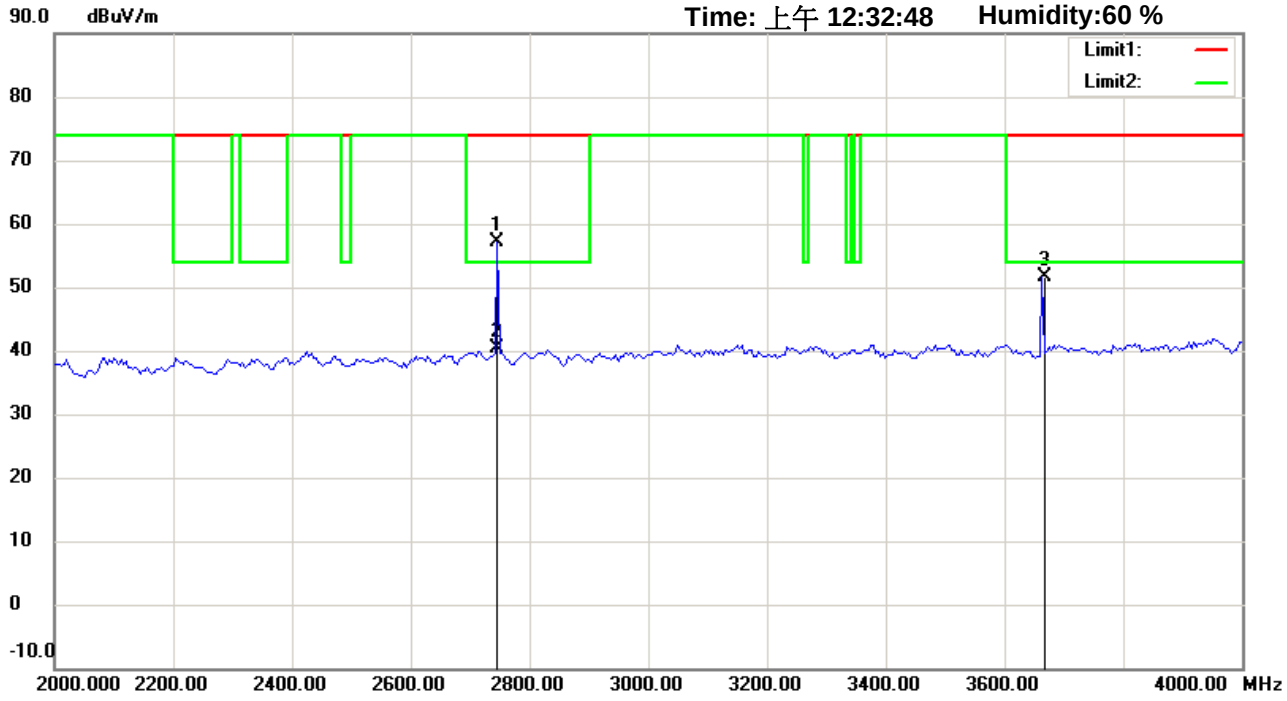
Radiated Emission Measurement

Operator: Leon

File :3 Data :#2 Date: 2015/9/20 Time: 上午 12:32:48

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

EUT : W6M21509-15277

M/N:

Test Mode : TX 915.439MHz

Note :

Polarization: *Horizontal*

Power : 3.7 Vd.c.

Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2745.491	60.20	peak	-2.97	57.23	74.00	100	215	-16.77	
*	2745.491	43.25	AVG	-2.97	40.28	54.00	100	215	-13.72	
	3663.327	52.66	peak	-1.15	51.51	74.00	100	190	-22.49	

*:Maximum data x:Over limit !:over margin

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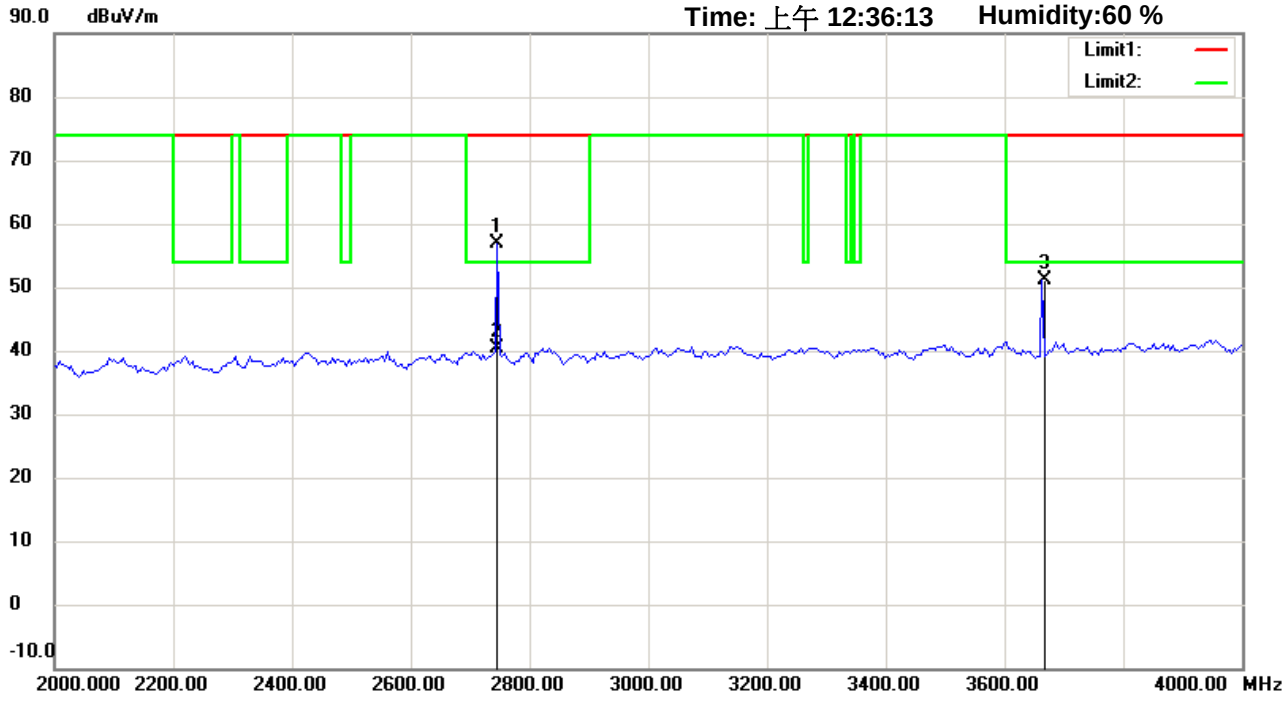
Radiated Emission Measurement

Operator: Leon
File :3 Data :#8 Date: 2015/9/20 Temperature:24 ℃
Time: 上午 12:36:13 Humidity:60 %



Site : Chamber
Condition : FCC Restriction Band_Above 1GHz_PK
EUT : W6M21509-15277
M/N:
Test Mode : TX 915.439MHz
Note :

Polarization: *Vertical*
Power : 3.7 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2745.491	59.95	peak	-2.97	56.98	74.00	100	220	-17.02	
*	2745.491	43.27	AVG	-2.97	40.30	54.00	100	220	-13.70	
	3663.327	52.18	peak	-1.15	51.03	74.00	100	175	-22.97	

*:Maximum data x:Over limit !:over margin

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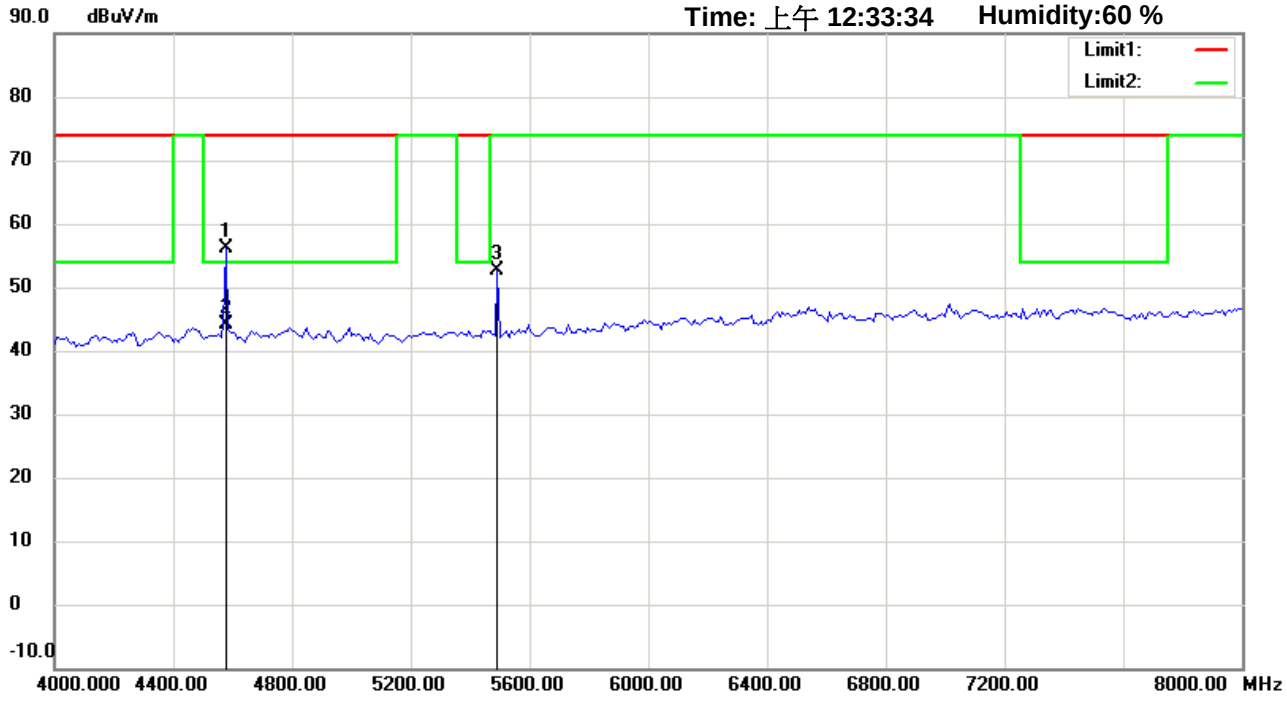
Radiated Emission Measurement

Operator: Leon

File :3 Data :#3 Date: 2015/9/20 Temperature:24 ℃

Time: 上午 12:33:34 Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.439MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4577.154	55.21	peak	0.82	56.03	74.00	100	75	-17.97	
*	4577.154	43.27	AVG	0.82	44.09	54.00	100	75	-9.91	
	5490.982	50.10	peak	2.44	52.54	74.00	100	120	-21.46	

*:Maximum data x:Over limit !:over margin

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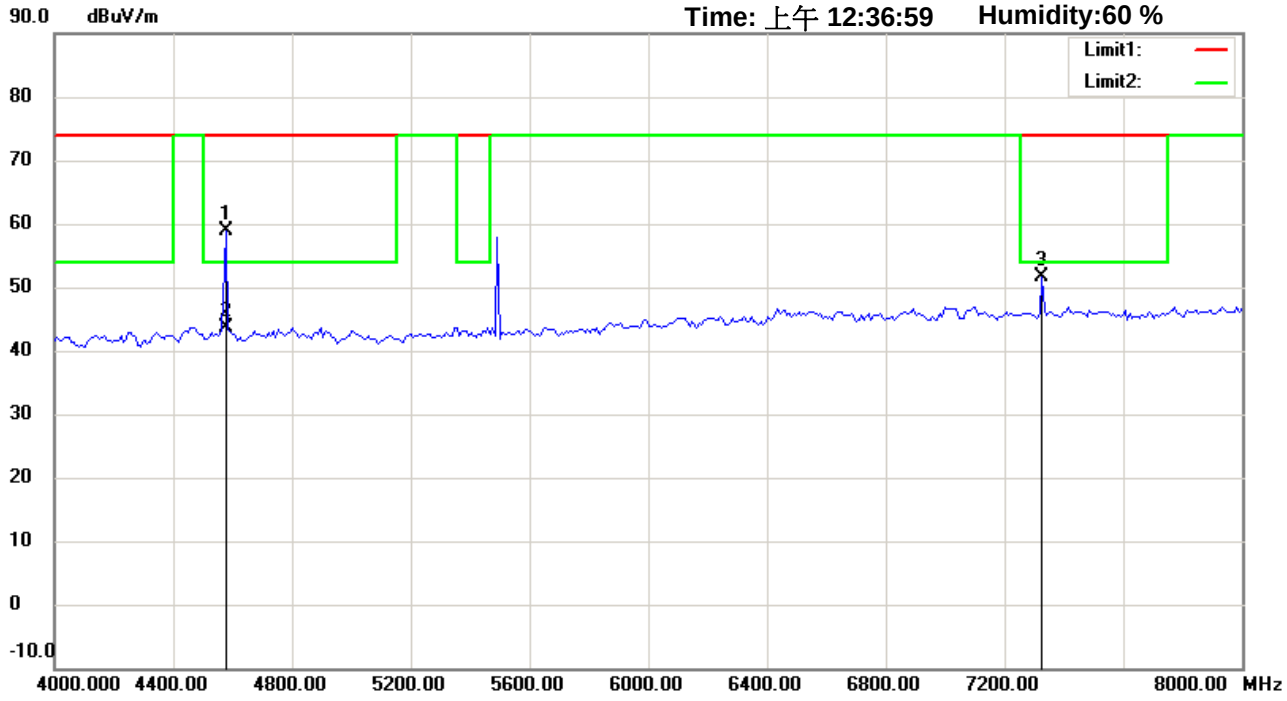
Radiated Emission Measurement

Operator: Leon
File :3 Data :#9 Date: 2015/9/20 Temperature:24 ℃
Time: 上午 12:36:59 Humidity:60 %



Site : Chamber
Condition : FCC Restriction Band_Above 1GHz_PK
EUT : W6M21509-15277
M/N:
Test Mode : TX 915.439MHz
Note :

Polarization: *Vertical*
Power : 3.7 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4577.154	58.09	peak	0.82	58.91	74.00	100	215	-15.09	
*	4577.154	42.79	AVG	0.82	43.61	54.00	100	215	-10.39	
	7326.653	46.66	peak	5.06	51.72	74.00	100	190	-22.28	

*:Maximum data x:Over limit !:over margin

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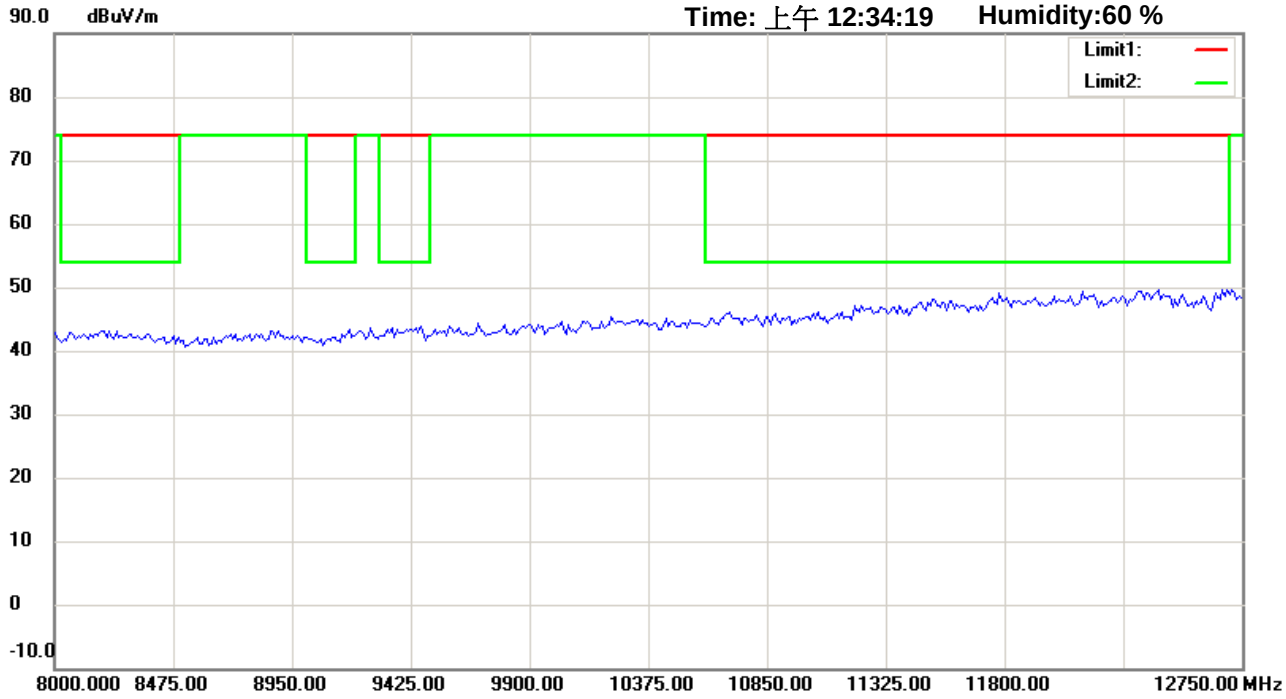
Radiated Emission Measurement

Operator: Leon

File :3 Data :#4 Date: 2015/9/20 Time: 上午 12:34:19

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.439MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

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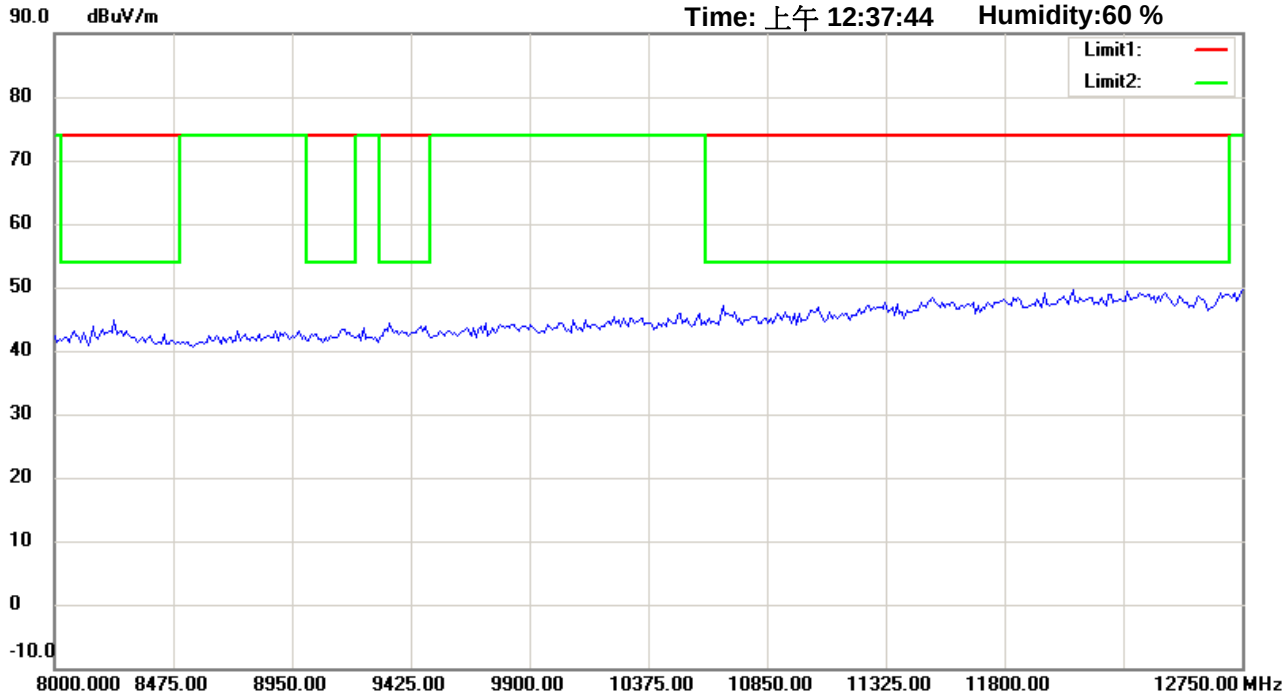
Radiated Emission Measurement

Operator: Leon

File :3 Data :#10 Date: 2015/9/20 Time: 上午 12:37:44 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.439MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

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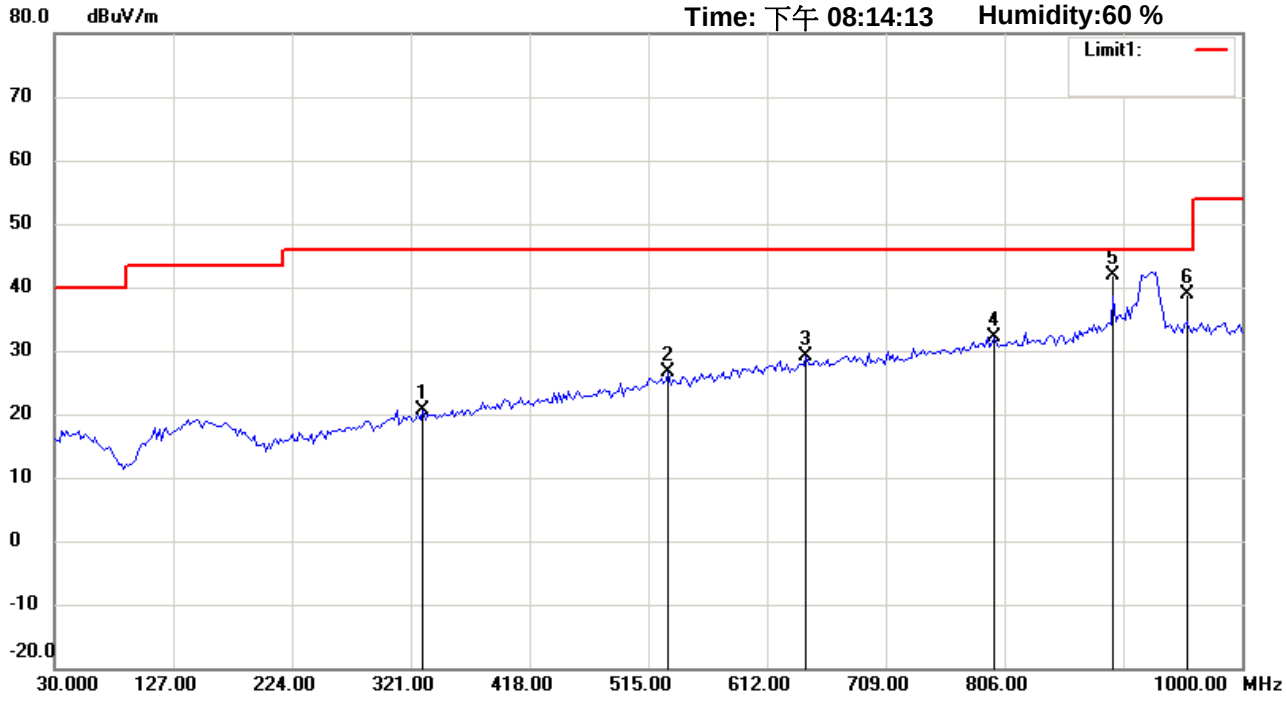
Radiated Emission Measurement

Operator: Leon

File :1 Data :#1 Date: 2015/9/19 Time: 下午 08:14:13 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC_part 15 RE-Class C_30-1000MHz

Polarization: *Horizontal*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 923.783MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	331.3026	3.69	peak	16.89	20.58	46.00	100	175	-25.42	
	531.5230	5.05	peak	21.54	26.59	46.00	100	120	-19.41	
	644.2685	4.63	peak	24.43	29.06	46.00	100	95	-16.94	
	797.8357	5.57	peak	26.57	32.14	46.00	100	130	-13.86	
*	895.0301	13.56	peak	28.30	41.86	46.00	100	210	-4.14	
	955.2906	10.33	peak	28.47	38.80	46.00	100	250	-7.20	

*:Maximum data x:Over limit !:over margin

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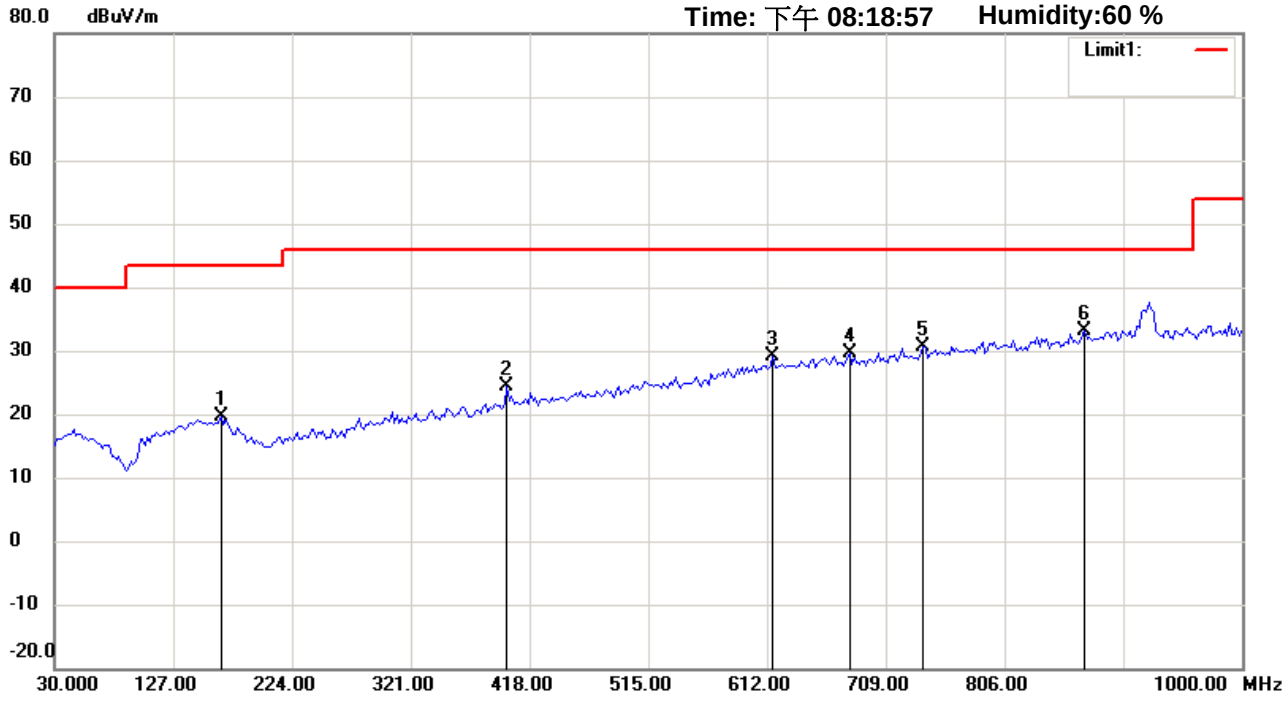
Radiated Emission Measurement

Operator: Leon
File :1 Data :#2 Date: 2015/9/19 Temperature:24 ℃
Time: 下午 08:18:57 Humidity:60 %



Site : Chamber
Condition : FCC_part 15 RE-Class C_30-1000MHz
EUT : W6M21509-15277
M/N:
Test Mode : TX 923.783MHz
Note :

Polarization: *Vertical*
Power : 3.7 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	166.0721	4.28	peak	15.25	19.53	43.50	100	50	-23.97	
	399.3387	5.68	peak	18.81	24.49	46.00	100	110	-21.51	
	617.0541	5.36	peak	23.80	29.16	46.00	100	125	-16.84	
	679.2585	4.74	peak	24.95	29.69	46.00	100	90	-16.31	
	739.5190	4.90	peak	25.78	30.68	46.00	100	235	-15.32	
*	871.7034	5.16	peak	27.90	33.06	46.00	100	185	-12.94	

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
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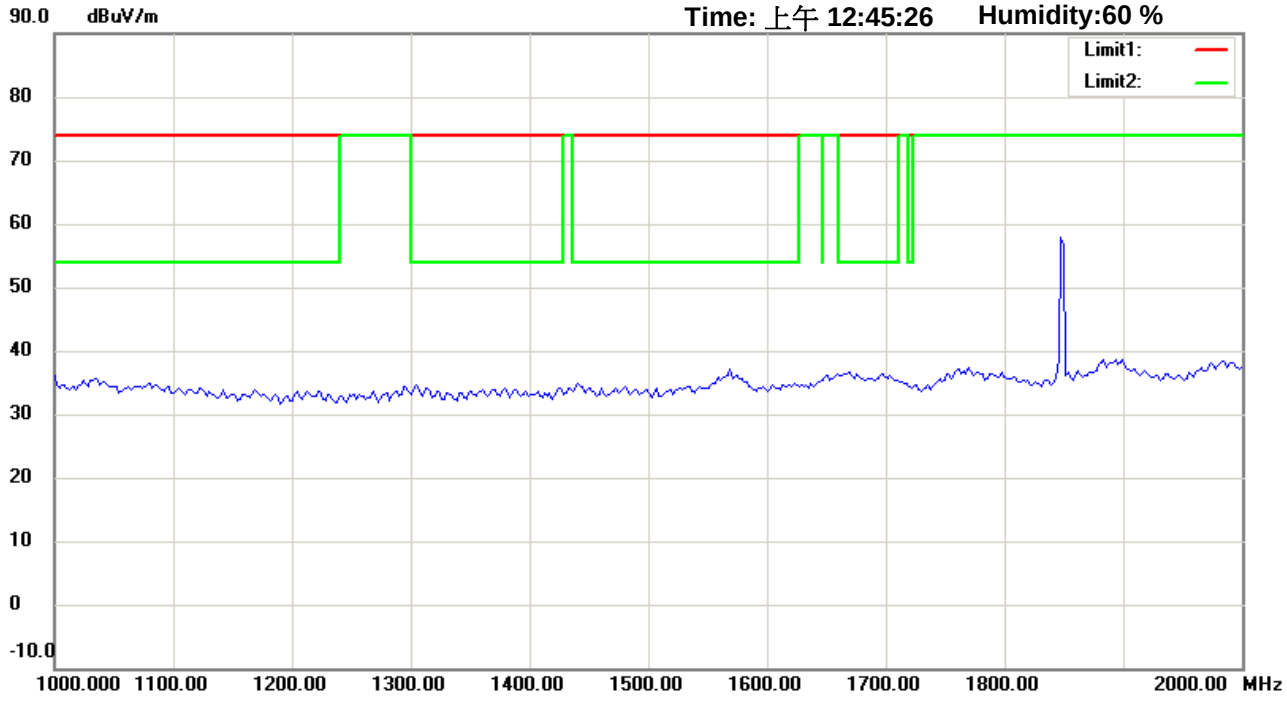
Radiated Emission Measurement

Operator: Leon
File :3 Data :#1 Date: 2015/9/20 Temperature:24 ℃
Time: 上午 12:45:26 Humidity:60 %



Site : Chamber
Condition : FCC Restriction Band_Above 1GHz_PK
EUT : W6M21509-15277
M/N:
Test Mode : TX 923.783MHz
Note :

Polarization: *Horizontal*
Power : 3.7 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

Address:6F.,No.58,Ln 188,Ruey Kuang Rd,Neihu,Taipei
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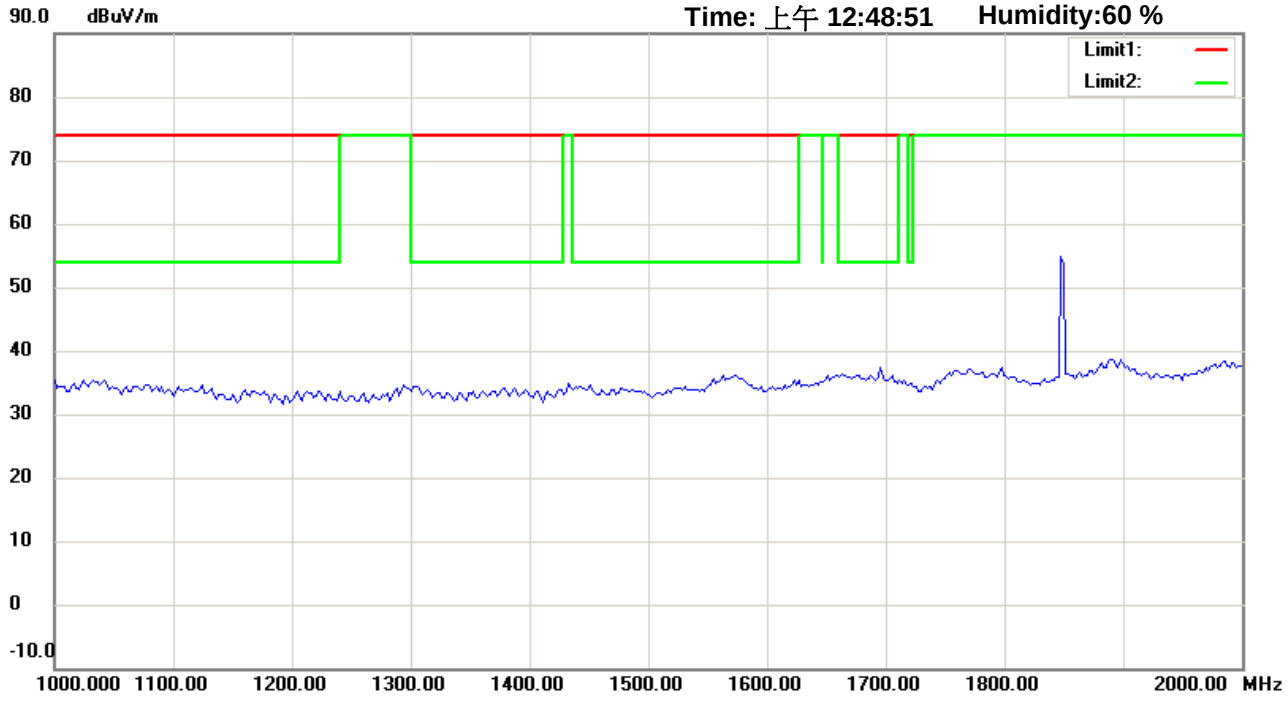
Radiated Emission Measurement

Operator: Leon

File :3 Data :#7 Date: 2015/9/20 Time: 上午 12:48:51

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 923.783MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

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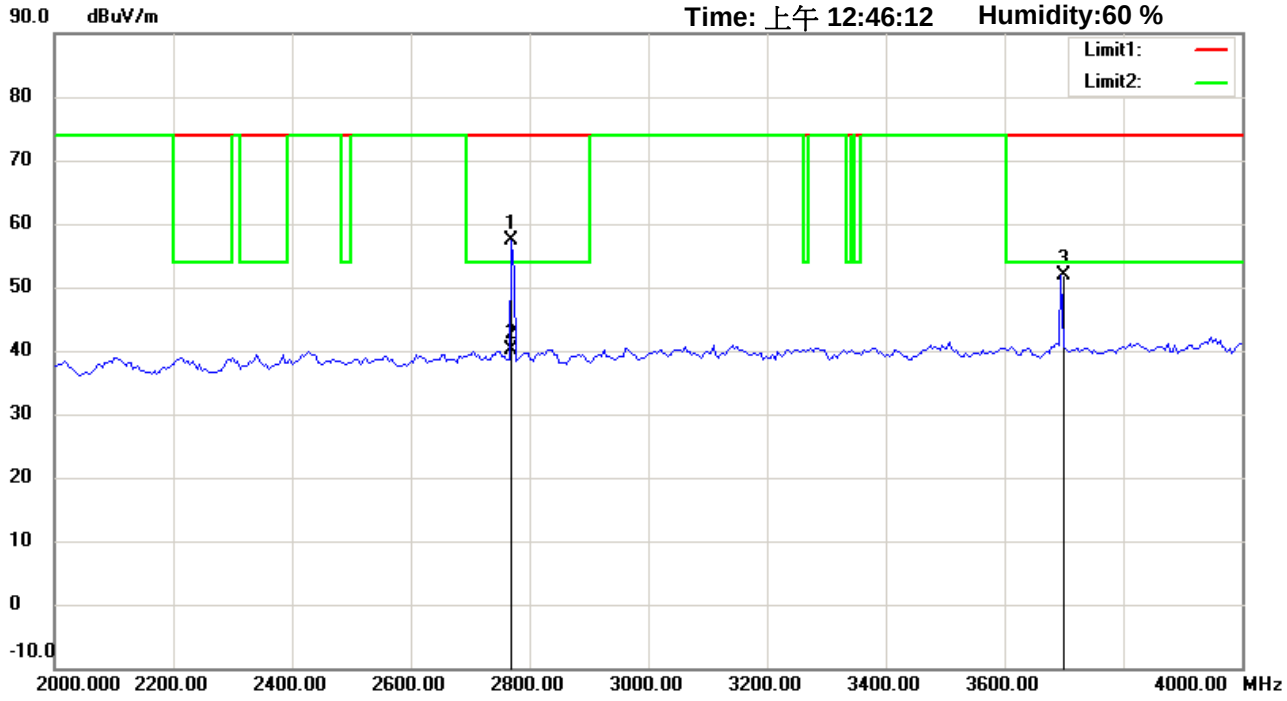
Radiated Emission Measurement

Operator: Leon
File :3 Data :#2 Date: 2015/9/20
Temperature:24 ℃
Time: 上午 12:46:12 Humidity:60 %



Site : Chamber
Condition : FCC Restriction Band_Above 1GHz_PK
EUT : W6M21509-15277
M/N:
Test Mode : TX 923.783MHz
Note :

Polarization: *Horizontal*
Power : 3.7 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2769.539	60.19	peak	-2.89	57.30	74.00	100	95	-16.70	
*	2769.539	43.10	AVG	-2.89	40.21	54.00	100	95	-13.79	
	3695.391	52.96	peak	-1.14	51.82	74.00	100	130	-22.18	

*:Maximum data x:Over limit !:over margin

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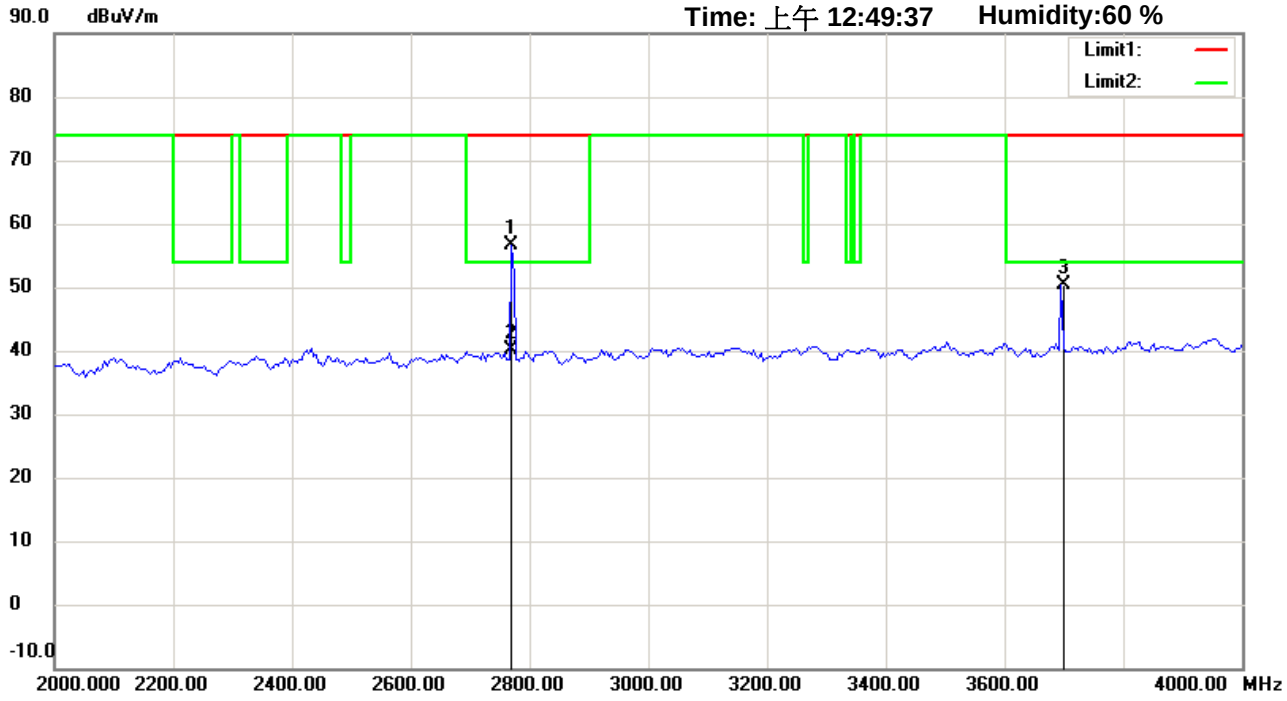
Radiated Emission Measurement

Operator: Leon
File :3 Data :#8 Date: 2015/9/20 Temperature:24 ℃
Time: 上午 12:49:37 Humidity:60 %



Site : Chamber
Condition : FCC Restriction Band_Above 1GHz_PK
EUT : W6M21509-15277
M/N:
Test Mode : TX 923.783MHz
Note :

Polarization: *Vertical*
Power : 3.7 Vd.c.
Distance: 3m

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	2769.539	59.59	peak	-2.89	56.70	74.00	100	155	-17.30	
*	2769.539	42.99	AVG	-2.89	40.10	54.00	100	155	-13.90	
	3695.391	51.64	peak	-1.14	50.50	74.00	100	70	-23.50	

*:Maximum data x:Over limit !:over margin

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Tel:+886-2-6606-8877
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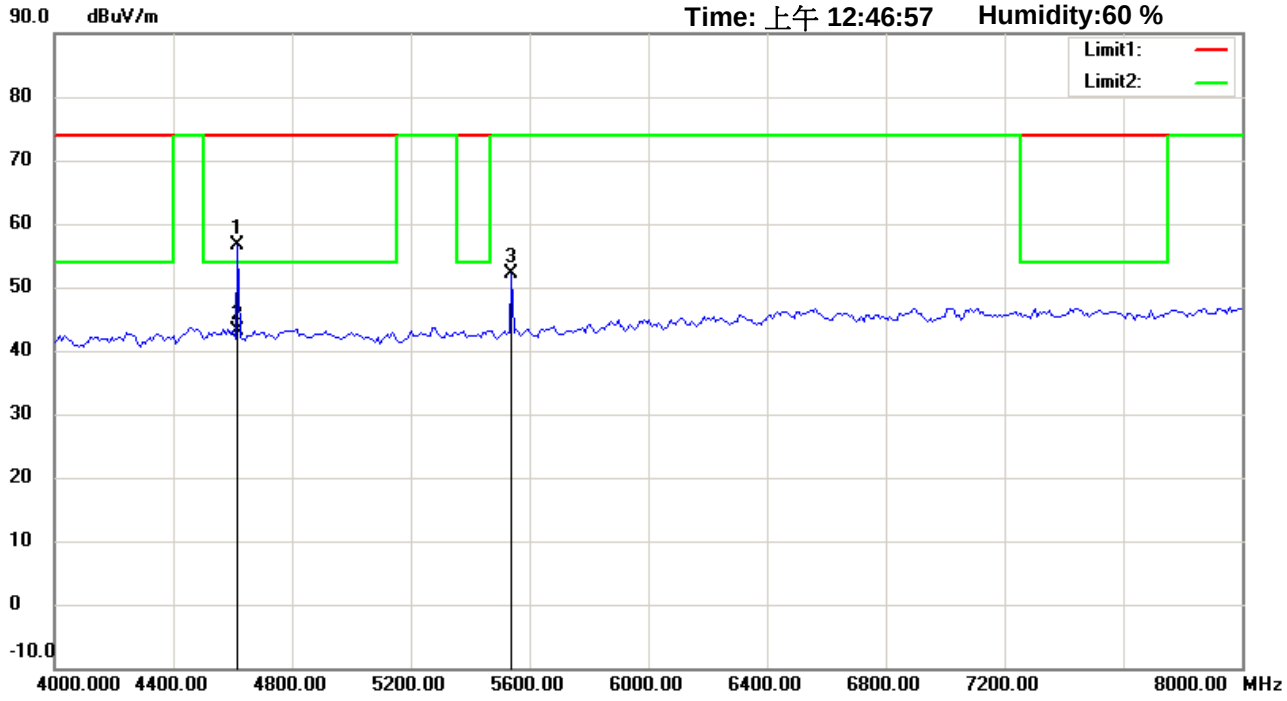
Radiated Emission Measurement

Operator: Leon

File :3 Data :#3 Date: 2015/9/20 Time: 上午 12:46:57

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 923.783MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4617.234	56.05	peak	0.66	56.71	74.00	100	75	-17.29	
*	4617.234	42.36	AVG	0.66	43.02	54.00	100	75	-10.98	
	5539.078	49.52	peak	2.53	52.05	74.00	100	90	-21.95	

*:Maximum data x:Over limit !:over margin

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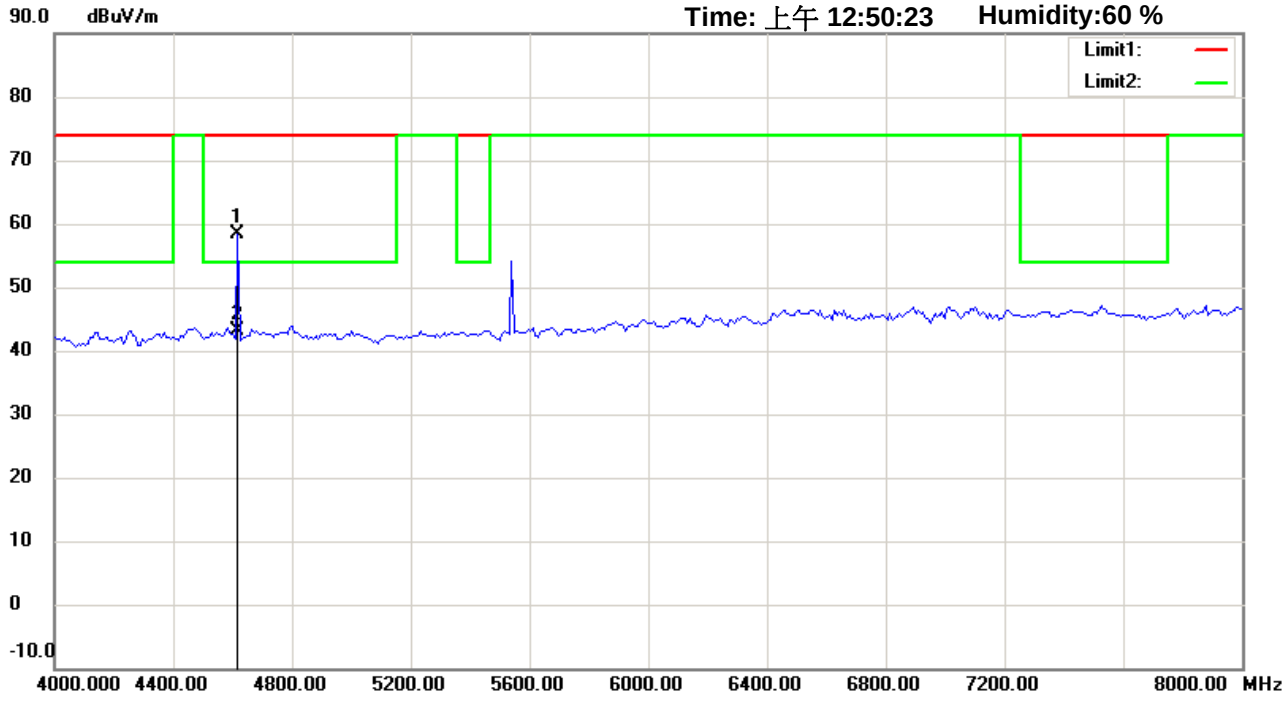
Radiated Emission Measurement

Operator: Leon

File :3 Data :#9 Date: 2015/9/20 Time: 上午 12:50:23

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 923.783MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	4617.234	57.65	peak	0.66	58.31	74.00	100	215	-15.69	
*	4617.234	42.46	AVG	0.66	43.12	54.00	100	215	-10.88	

*:Maximum data x:Over limit !:over margin

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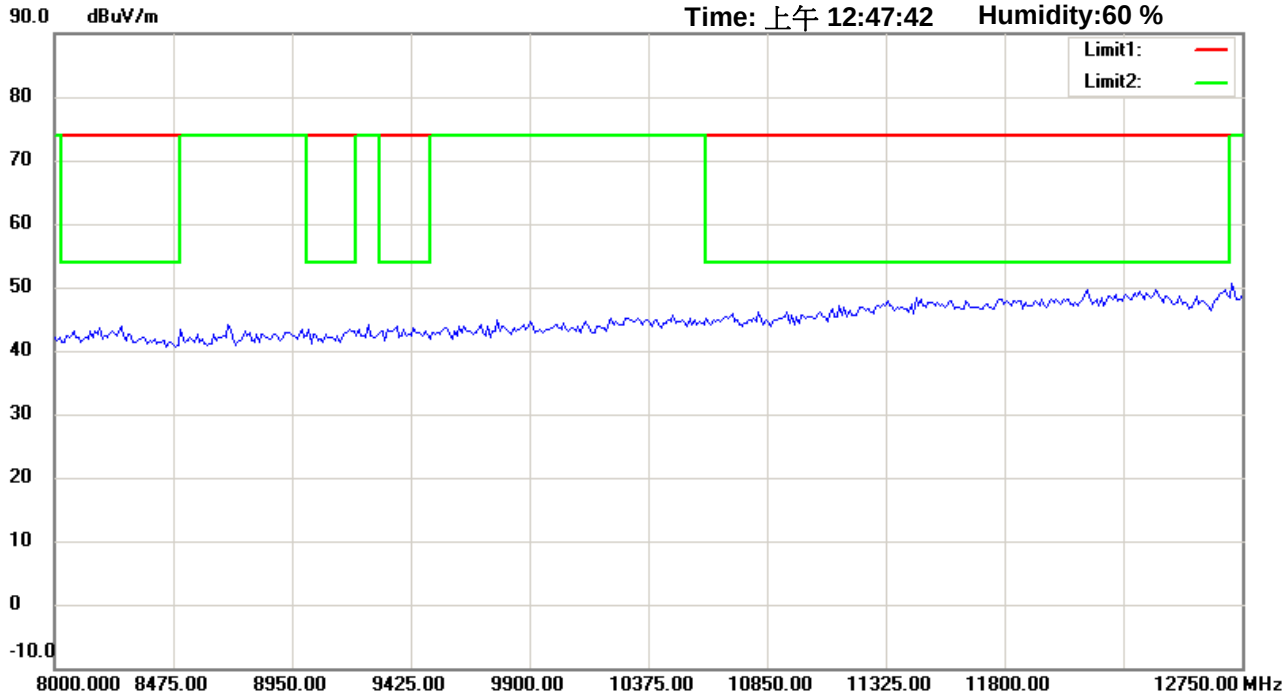
Radiated Emission Measurement

Operator: Leon

File :3 Data :#4 Date: 2015/9/20 Time: 上午 12:47:42

Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 923.783MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment

*:Maximum data x:Over limit !:over margin

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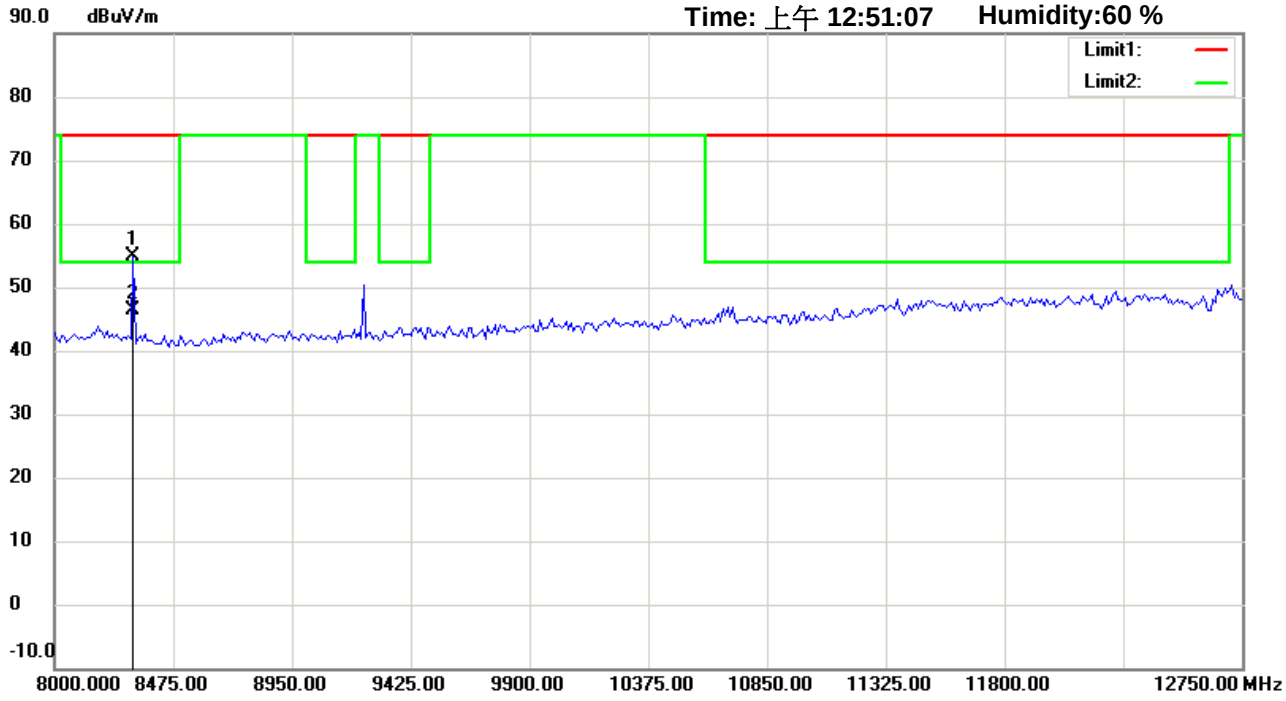
Radiated Emission Measurement

Operator: Leon

File :3 Data :#10 Date: 2015/9/20 Time: 上午 12:51:07 Temperature:24 ℃ Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21509-15277

Power : 3.7 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 923.783MHz

Note :

Mk.	Frequency (MHz)	Reading (dBuV)	Detector	Corr. factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Ant.Pos (cm)	Tab.Pos (deg.)	Margin (dB)	Comment
	8314.128	48.83	peak	6.15	54.98	74.00	100	75	-19.02	
*	8314.128	40.23	AVG	6.15	46.38	54.00	100	75	-7.62	

*:Maximum data x:Over limit !:over margin