

FCC PART 15 SUBPART C TEST REPORT

for

Remote Control

Model No.: TRE937F

FCC ID: H5OTR63

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.: W6M21406-14279-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



TABLE OF CONTENTS

1	GENERAL 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	4
1.4	Application details	4
1.5	General information of Test item.....	4
1.6	Test standards.....	5
2	TECHNICAL 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	Carrier Frequency Separation	19
3.7	Number of Hopping Frequencies	22
3.7.1	Pseudorandom Frequency Hopping Sequence	23
3.7.2	Coordination of hopping sequences to other transmitters.....	23
3.7.3	System Receiver Hopping Capability.....	23
3.7.4	Equal Hopping Frequency Use.....	23
3.8	Time of Occupancy (Dwell Time)	24
3.9	20dB Bandwidth	28
3.10	Band-edge Compliance of RF Emissions	31
3.11	Radiated Emissions from Digital Part.....	34
3.12	Power Line Conducted Emission.....	35



Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

1 General Information

1.1 Notes

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

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

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

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

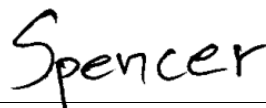
The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

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

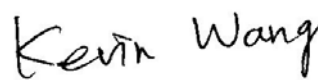
The test report may only be reproduced or published in full.

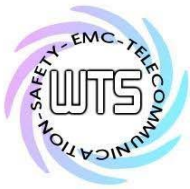
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Tester:

July 21, 2015		Spencer Yang	
Date	WTS-Lab.	Name	Signature

Technical responsibility for area of testing:

July 21, 2015		Kevin Wang	
Date	WTS	Name	Signature



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21406-14279-C-1
FCC ID: H5OTR63

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: ./.



Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

1.3 Details of approval holder

Name : Advance Security Inc.
Street : 3F, 48 Ta-An Street,
Town : Hsi-Chih, Taipei Hsien,
Country : Taiwan R.O.C.
Telephone : +886-2-86481688
Fax : +886-2-86481689

1.4 Application details

Date of receipt of test item : July 09, 2015
Date of test : from July 10, 2015 to July 21, 2015

1.5 General information of Test item

Type of test item : Remote Control
Model Number : TRE937F
Multi-listing model number : ./.
Photos : see Appendix

Technical data

Frequency band : 908.300 - 923.783 MHz
Frequency (ch 1) : 908.300 MHz
Frequency (ch 13) : 915.444 MHz
Frequency (ch 25) : 923.783 MHz

Transmitter

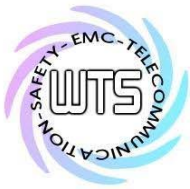
Unom

Peak Power

Power (ch A or ch 1) : Conducted: 10.84 dBm
Power (ch B or ch 13) : Conducted: 10.87 dBm
Power (ch C or ch 25) : Conducted: 10.74 dBm

Average Power

Power (ch A or ch 1) : Conducted: -25.98 dBm
Power (ch B or ch 13) : Conducted: -25.95 dBm
Power (ch C or ch 25) : Conducted: -26.08 dBm



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21406-14279-C-1
FCC ID: H5OTR63

Power supply : Battery 3 VDC (CR2032)

Operation modes : Half-duplex

Modulation Type : FHSS

Antenna Type : Helical antenna

Antenna gain : 0 dBi

Host device : none

Classification :

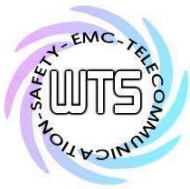
Fixed Device	<input type="checkbox"/>
Mobile Device (Human Body distance > 20cm)	<input type="checkbox"/>
Portable Device (Human Body distance < 20cm)	<input checked="" type="checkbox"/>

Manufacturer:
(if applicable)

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

1.6 Test standards

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



Registration number: W6M21406-14279-C-1
FCC ID: H5OTR63

2 Technical test

2.1 Summary of test results

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

or

The deviations as specified in 3 were ascertained in the course of the tests performed.

2.2 Test environment

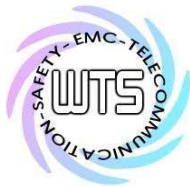
Temperature : 23 °C
Relative humidity content : 20 ... 75 %
Air pressure : 86 ... 103 kPa
Details of power supply : Battery 3 VDC (CR2032)
Extreme conditions parameters : test voltage : -- extreme
min :-- V
max :-- V
Description of Tested System : ./.



Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

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	2014/9/2	2015/9/1
ETSTW-CE 003	AC POWER SOURCE	APS-9102	D161137	GW	Function Test	
ETSTW-CE 008	HF-EICHLITUNG 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	2015/6/30	2016/6/29
ETSTW-CE 016	TWO-LINE V-NETWORK	ENV216	100050	R&S	2014/10/13	2015/10/12
ETSTW-RE 004	EMI TEST RECEIVER	ESI 40	832427/004	R&S	2014/9/2	2015/9/1
ETSTW-RE 005	EMI TEST RECEIVER	ESVS10	843207/020	R&S	2014/9/2	2015/9/1
ETSTW-RE 012	TUNABLE BANDREJECT FILTER	D.C 0309	146	K&L	Function Test	
ETSTW-RE 013	TUNABLE BANDREJECT FILTER	D.C 0336	397	K&L	Function Test	
ETSTW-RE 018	MICROWAVE HORN ANTENNA	AT4560	27212	AR	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	2014/10/9	2015/10/8
ETSTW-RE 088	SOLID STATE AMPLIFIER	KMA180265A01	99057	KMIC	2014/9/22	2015/9/21
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2015/3/2	2016/3/1
ETSTW-RE 106	Humidity Temperature Meter	TES-1366	091011113	TES	2014/11/7	2015/11/6
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	2014/8/12	2015/8/11



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

ETSTW-RE 126	5GHz Notch filter	5NSL11-5800/E221.3-O/O	1	K&L Microwave	2014/8/12	2015/8/11
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 Circuits	2014/8/12	2015/8/11
ETSTW-RE 129	5.5GHz Notch filter	N0555984	SN487234	Microwave Circuits	2014/8/12	2015/8/11
ETSTW-RE 130	Handheld RF Spectrum Analyzer	N9340A	CN0147000204	Agilent	Pre-test Use	
ETSTW-GSM 002	Universal Radio Communication Tester	CMU 200	109439	R&S	2014/10/20	2015/10/19
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	2014/9/17	2015/9/16
ETSTW-Cable 010	BNC Cable	5 M BNC Cable	None	JYE BAO CO.,LTD.	2014/10/15	2015/10/14
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.	2014/10/15	2015/10/14
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	2015/1/16	2016/1/15
ETSTW-Cable 029	Microwave Cable	FA147A0015M2020	30064-3	UTIFLEX	2014/9/22	2015/9/21
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	



Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

2.4 General Test Procedure

POWER LINE CONDUCTED INTERFERENCE: The procedure used was ANSI STANDARD C63.4-2009 5.2 using a 50 μ H LISN (if necessary). Both lines were observed. The bandwidth of the spectrum analyzer was 10 kHz with an appropriate sweep speed.

RADIATION INTERFERENCE: The test procedure used was according to ANSI STANDARD C63.4-2009 6.4 employing a spectrum analyzer. For investigated frequency is equal to or below 1GHz, the RBW and VBW of the spectrum analyzer was 100 kHz and 100kHz respectively with an appropriate sweep speed. For investigated frequency is above 1GHz, both of RBW and VBW of the spectrum analyzer were 1 MHz with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. 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 dB μ V) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB.

Example:

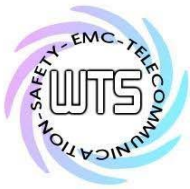
Freq (MHz) METER READING + ACF + CABLE LOSS (to the receiver) = FS
33 20 dB μ V + 10.36 dB + 6 dB = 36.36 dB μ V/m @3m

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 No.5-1, Lishui, Shuang Sing Village, Wanli Dist., New Taipei City 207, Taiwan (R.O.C.). The Registration Number: **930600**.



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

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

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

The formula is as follows:

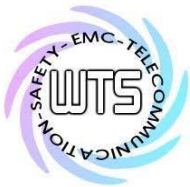
Average = Peak + Duty Factor

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

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

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

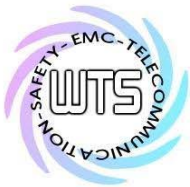
ANSI STANDARD C63.4-2009 10.2.7: Any measurements that utilize special test software shall be indicated and referenced in the test report. During testing, test software 'EZ EMC' was used for setting up different operation modes.



Registration number: W6M21406-14279-C-1
 FCC ID: H50TR63

3 Test results (enclosure)

TEST CASE	Para. Number	Required	Test passed	Test failed
Peak Output Power	15.247(b)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Equivalent isotropically radiated Power	15.247(b)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions radiated – Transmitter operating	15.247(c)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Emissions conducted – Transmitter operating	15.247	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Carrier Frequency Separation	15.247(a) (1)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Number of Hopping Frequencies	15.247(a) (1)(i)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Time of Occupancy (Dwell Time)	15.247(a) (1)(i)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20 dB Bandwidth	15.247(a) (1)(i)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Band-edge Compliance of RF Emission	15.247(c)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Radiated Emission from Digital part	15.109	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Power Line Conducted Emission	15.207(a)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



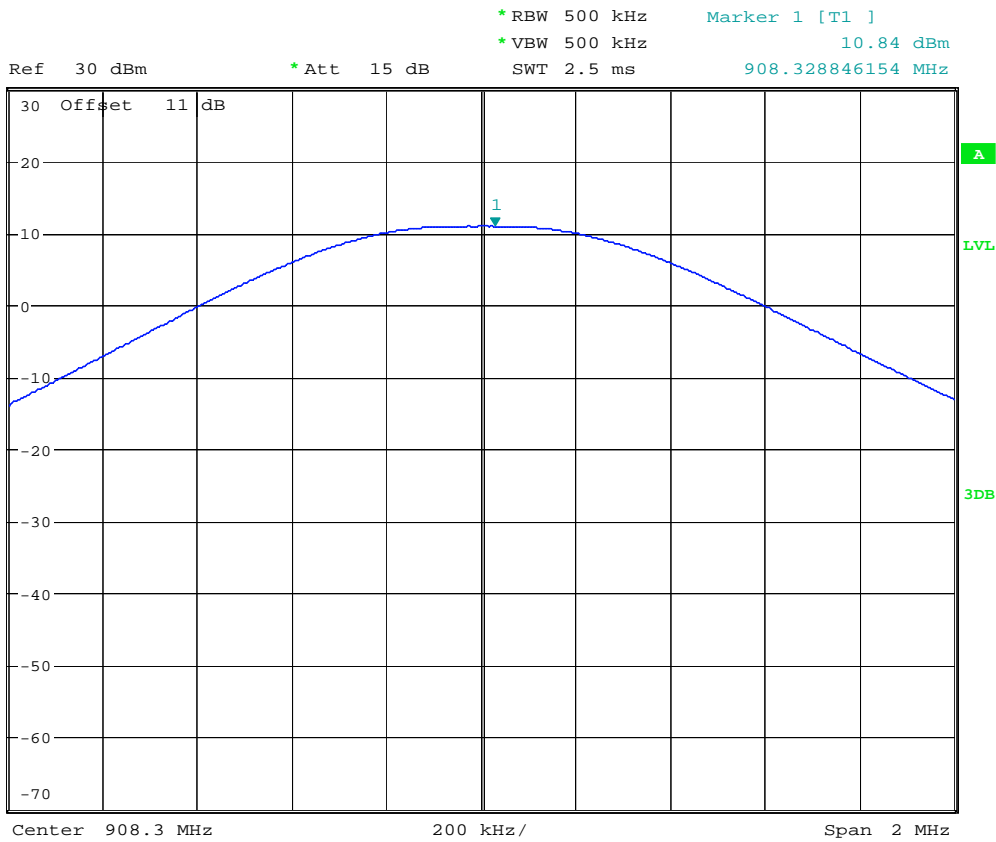
Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

3.1 Peak Output Power (transmitter)

FCC Rule: 15.247

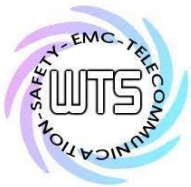
This measurement applies to equipment with an integral antenna and to equipment with an antenna connector and equipped with an antenna as declared by the applicant.

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



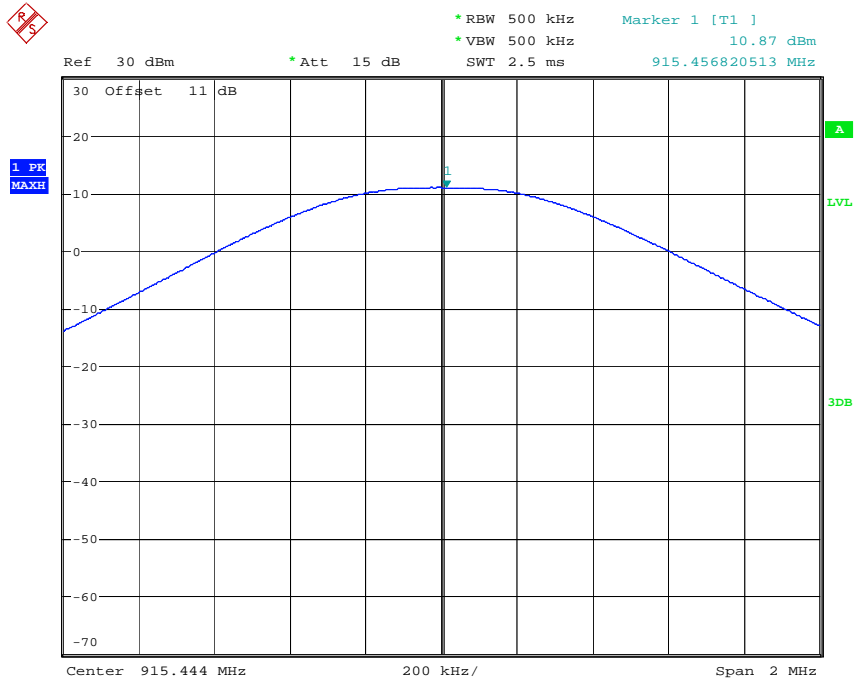
MAX OUTPUT POWER 908.3MHZ

Date: 16.JUL.2015 20:54:26

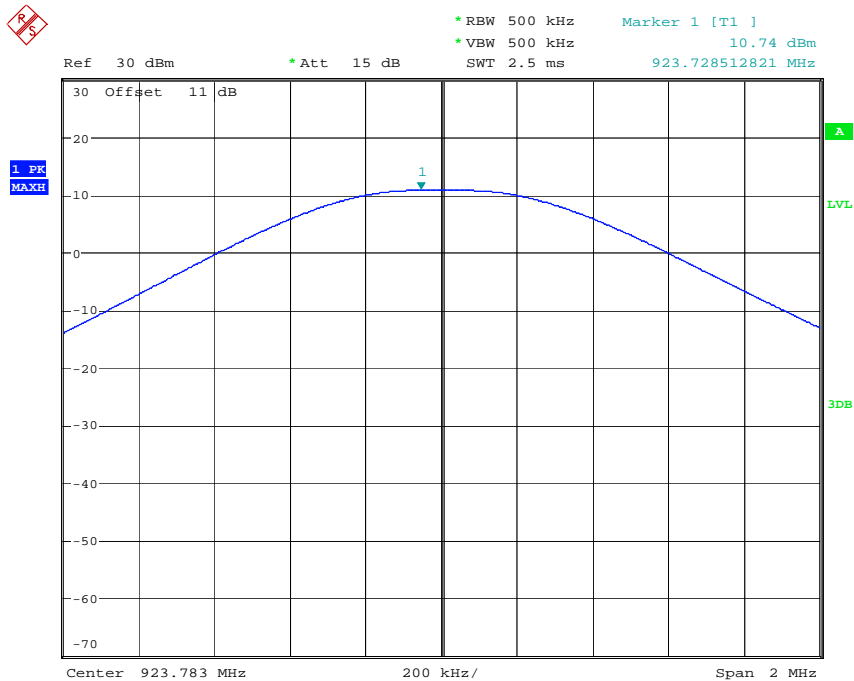


Worldwide Testing Services(Taiwan) Co., Ltd.

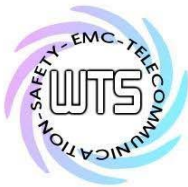
Registration number: W6M21406-14279-C-1
FCC ID: H50TR63



MAX OUTPUT POWER 915.444MHZ
Date: 16.JUL.2015 20:53:55



MAX OUTPUT POWER 923.783MHZ
Date: 16.JUL.2015 20:53:19

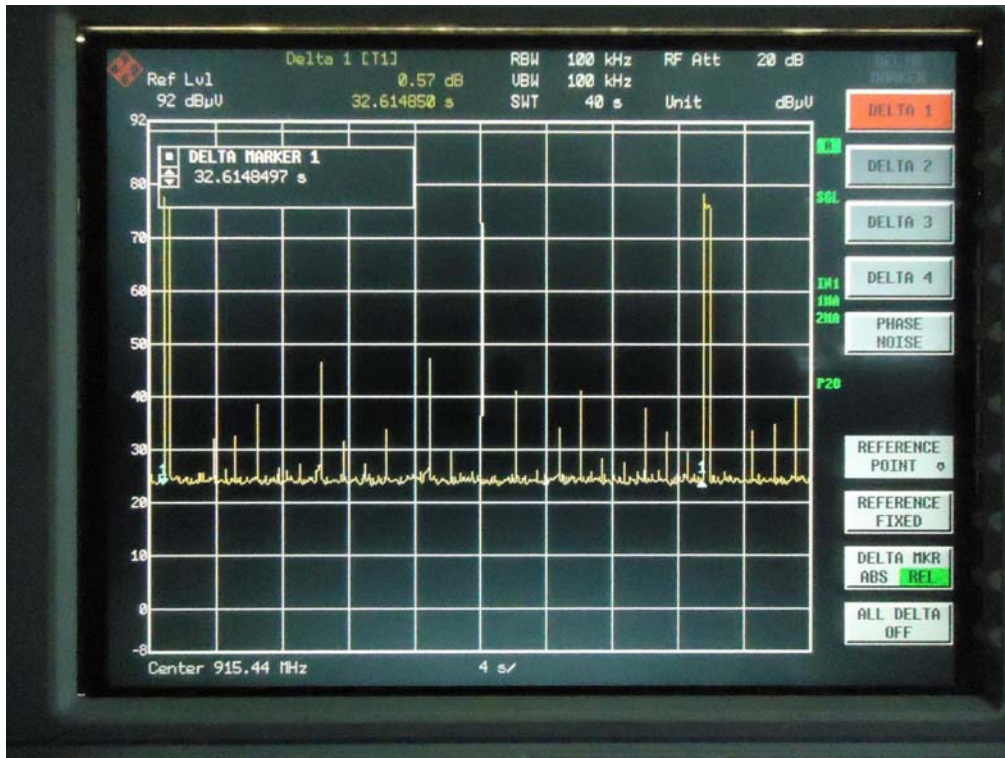
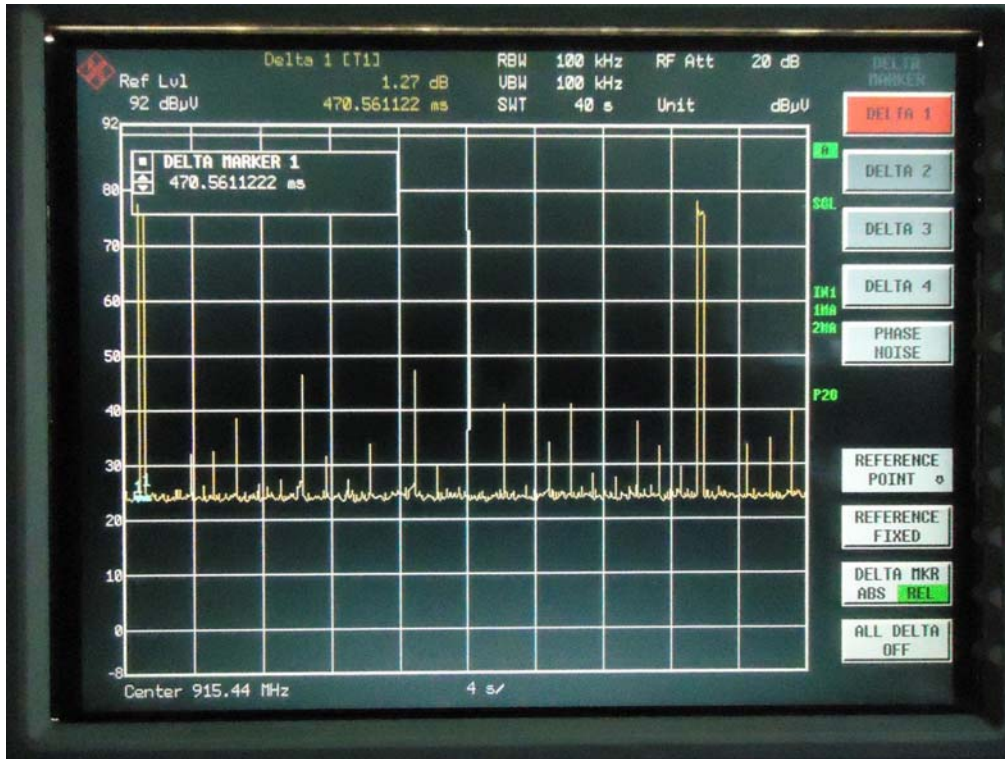


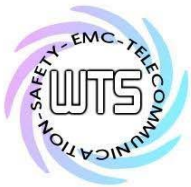
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Registration number: W6M21406-14279-C-1

FCC ID: H50TR63

Duty cycle





Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21406-14279-C-1
 FCC ID: H50TR63

Testing Mode	T period (ms)	T on (ms)	Duty Cycle	Duty Cycle Correction 20*log(Duty Cycle)
Transmitting Mode	32.6148497	0.470561	0.014427818	-36.82

Average Power = Peak Power + Duty Factor

Peak Power	Duty Factor	Average Power
10.84 dBm	-36.82	-25.98 dBm
10.87 dBm	-36.82	-25.95 dBm
10.74 dBm	-36.82	-26.08 dBm

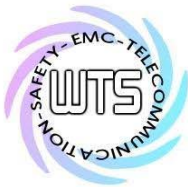
Maximum Peak Output Power

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 point-to point operation consider §15.247 (b)(4).

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



Registration number: W6M21406-14279-C-1
 FCC ID: H5OTR63

3.2 Equivalent isotropic radiated power

FCC Rule: 15.247(b)(3)
 EIRP = max. conducted output power + antenna gain
 EIRP = 10.87 dBm + 0 dBi = 10.87 dBm
 Limit: EIRP = +36 dBm for Antenna gain <6dBi

Test equipment used: ETSTW-RE 055

3.3 RF Exposure Compliance Requirements

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: 12.2180 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



Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

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

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: W6M21406-14279-C-1
 FCC ID: H50TR63

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))

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:	TRE937F	Date:	--
Mode:	--	Temperature:	-- °C Engineer: --
Polarization:	--	Humidity:	-- %

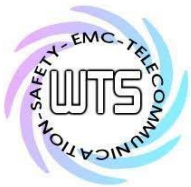
Frequency (MHz)	Reading (dBuV)	Detector	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table Degree (Deg.)	Ant. High (cm)
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

- 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. 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

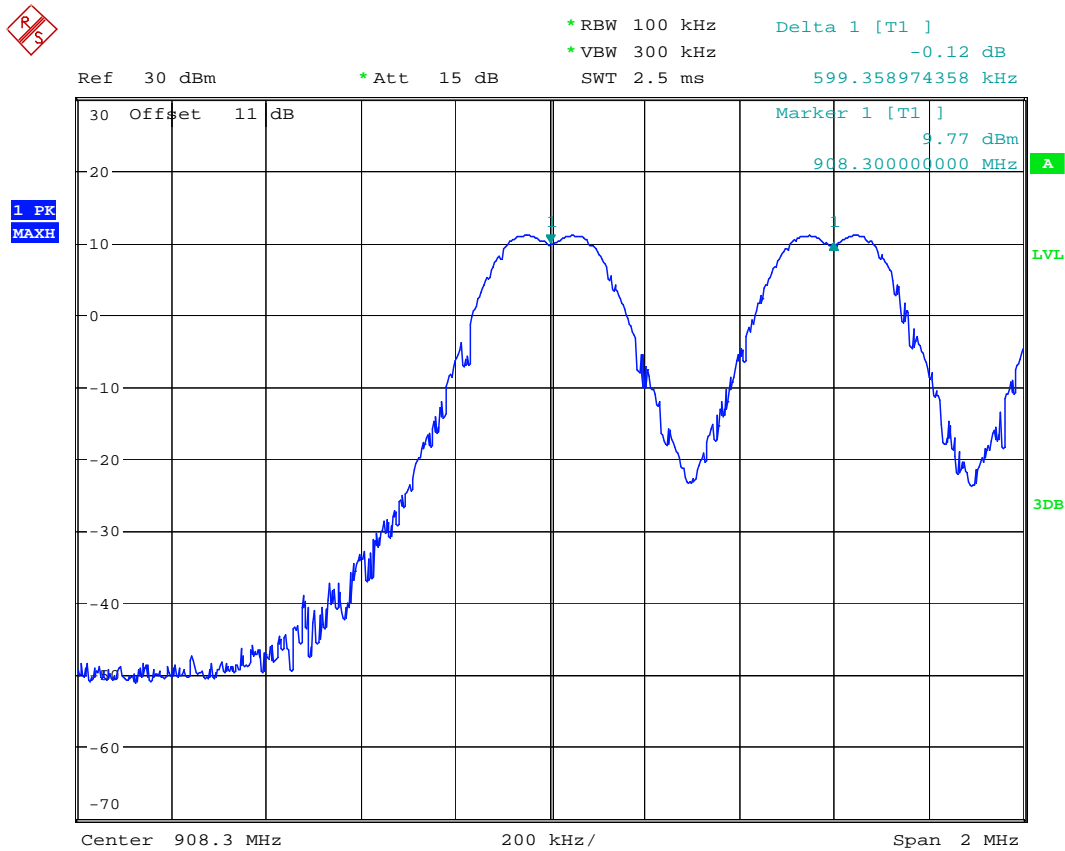


Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

3.6 Carrier Frequency Separation

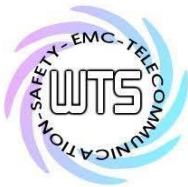
Carrier Frequency Separation was measured with modulation (declared by manufacturer).

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.



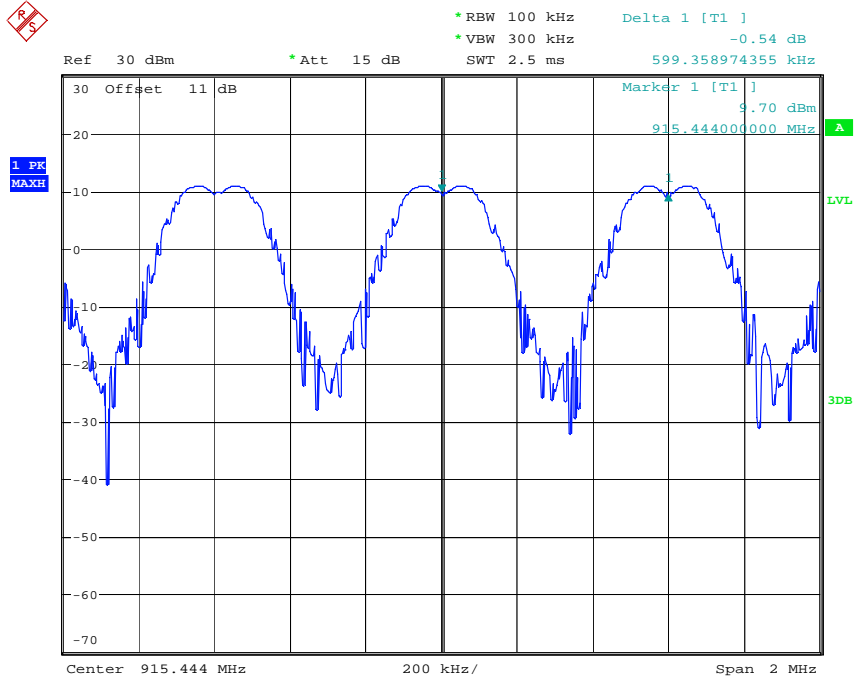
FREQUENCY SEPARATION

Date: 16.JUL.2015 21:53:26



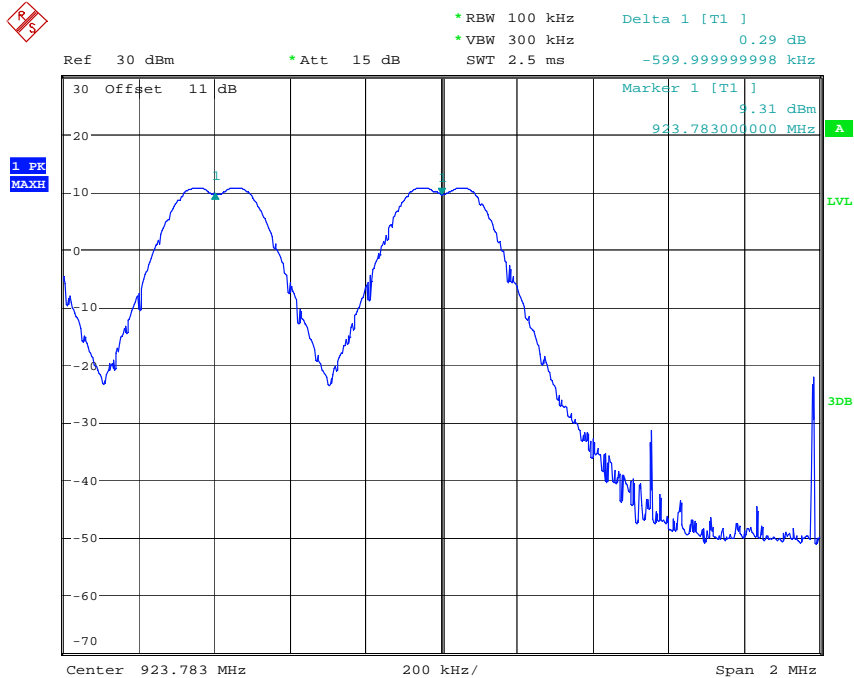
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FCC ID: H50TR63



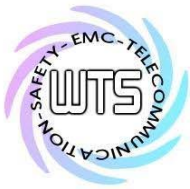
FREQUENCY SEPARATION

Date: 16.JUL.2015 21:50:18



FREQUENCY SEPARATION

Date: 16.JUL.2015 21:48:20



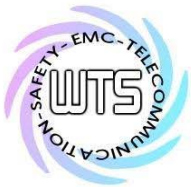
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

Limits:

Frequency Range MHz	Limits	
	20 dB bandwidth < 25 kHz	20 dB bandwidth > 25 kHz
902-928	25 kHz	20 dB bandwidth
2400-2483.5 5725-5850.0	25 kHz	20 dB bandwidth

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

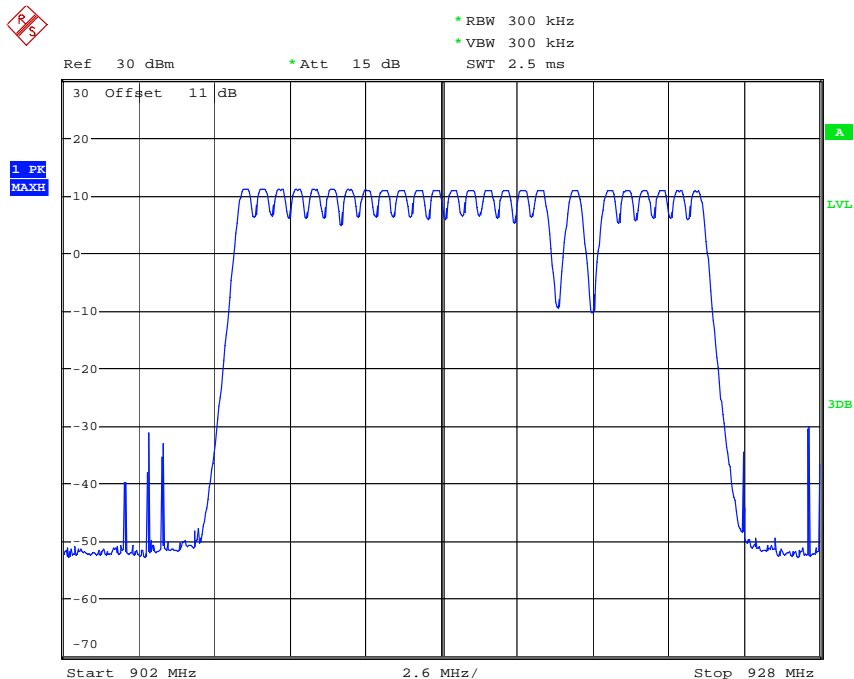


Registration number: W6M21406-14279-C-1
 FCC ID: H50TR63

3.7 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.

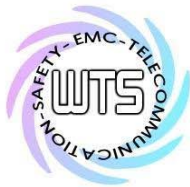


NUMBER OF HOPPING
 Date: 16.JUL.2015 21:58:44

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



Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

3.7.1 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, **915.444**, 916.040, 916.635, 917.233, 917.825, 918.422, 919.612, 920.805, 921.400, 921.995, 922.590, 923.188, **923.783**

3.7.2 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.

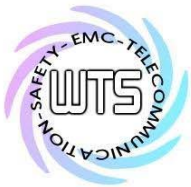
3.7.3 System Receiver Hopping Capability

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.

3.7.4 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.

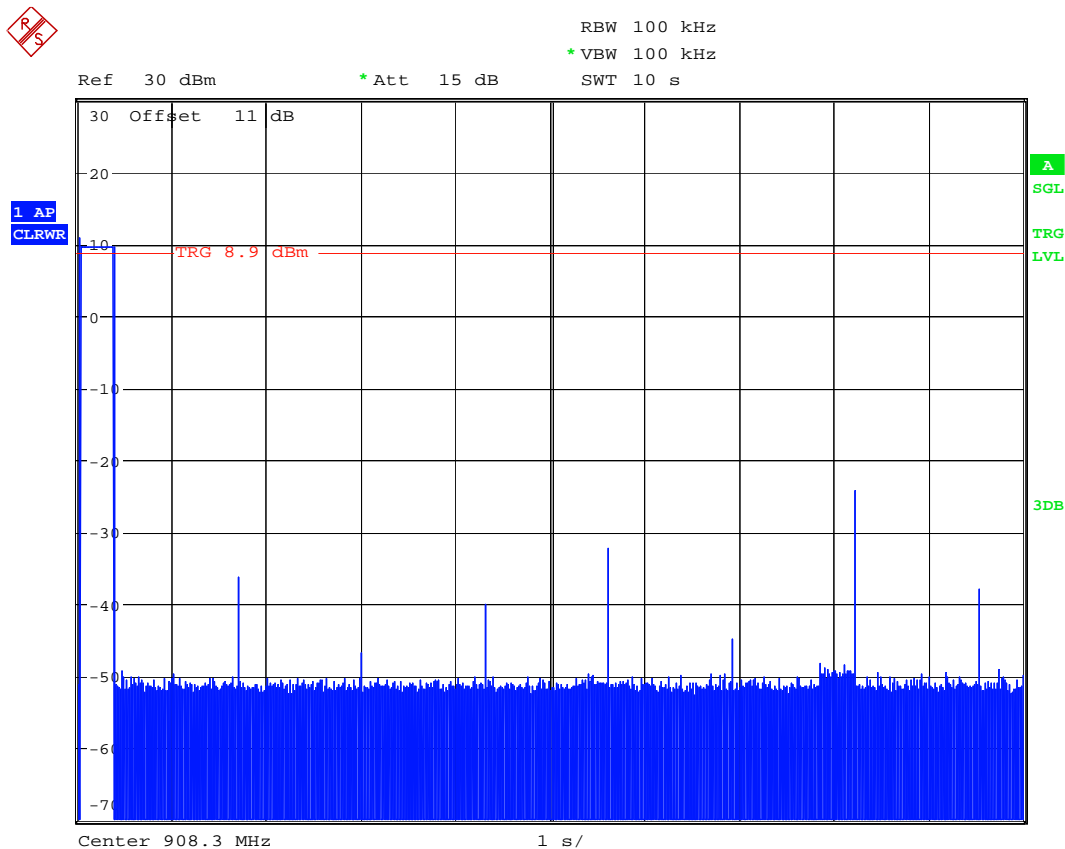


Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

3.8 Time of Occupancy (Dwell Time)

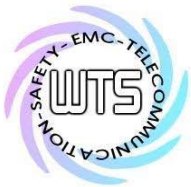
Frequency hopping systems operating in the 5725-5850 MHz band shall use an average time of occupancy on any frequency not greater than 0.4 seconds within a 30 second period.
In 2400-2483.5 MHz band the average time of occupancy on any channel shall not be greater than 0.4 seconds multiplied by the number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



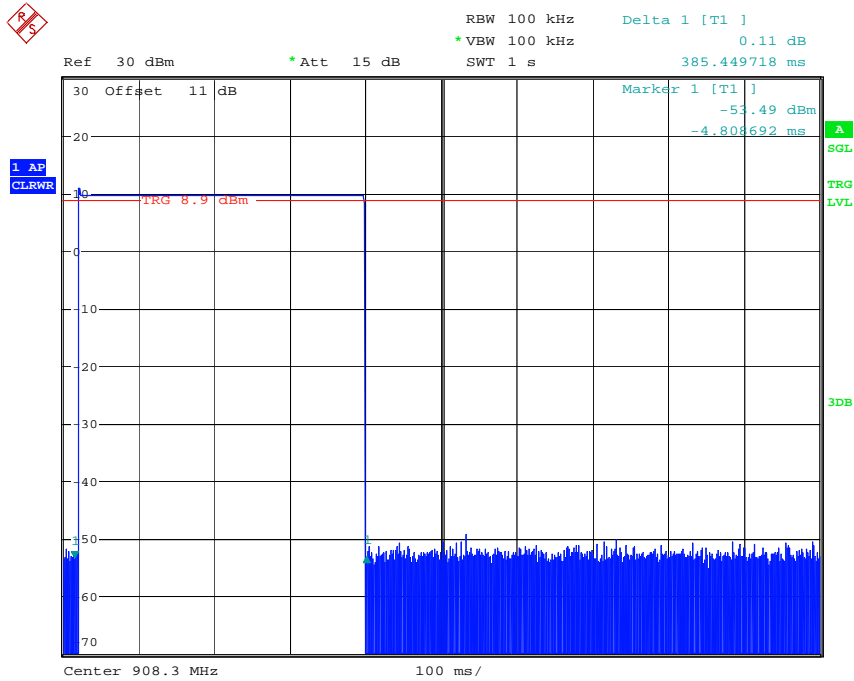
DWELL TIME 908.3MHZ

Date: 16.JUL.2015 22:35:33

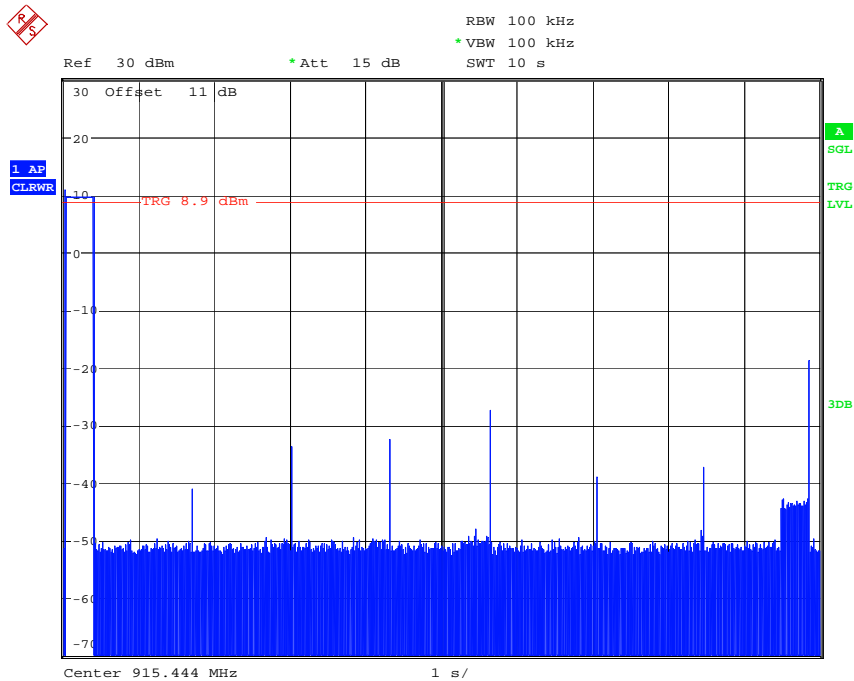


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21406-14279-C-1
FCC ID: H50TR63



DWELL TIME 908.3MHZ (385.449ms * 1 = 385.449ms)
Date: 16.JUL.2015 22:32:18

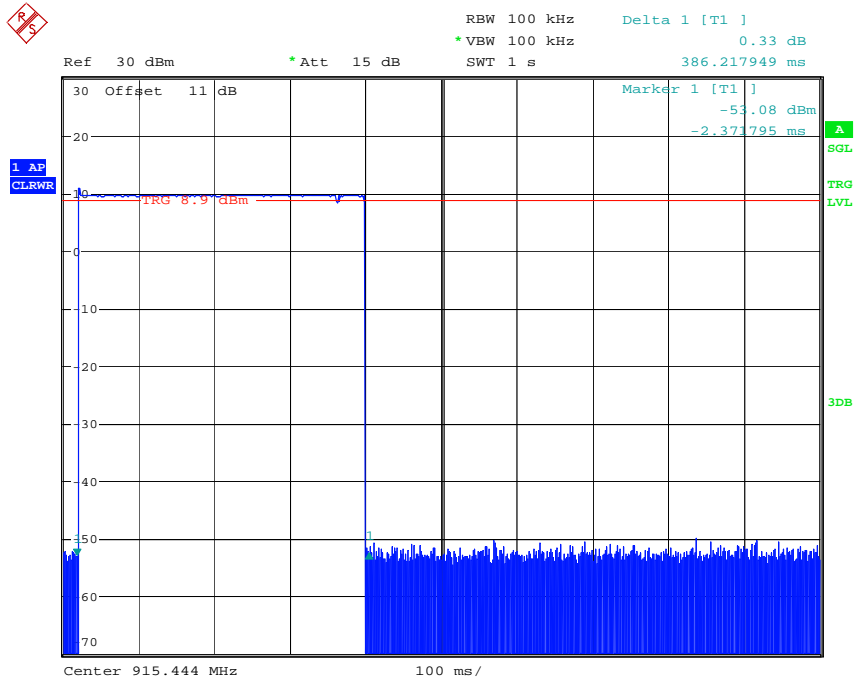


DWELL TIME 915.444MHZ
Date: 16.JUL.2015 23:50:49

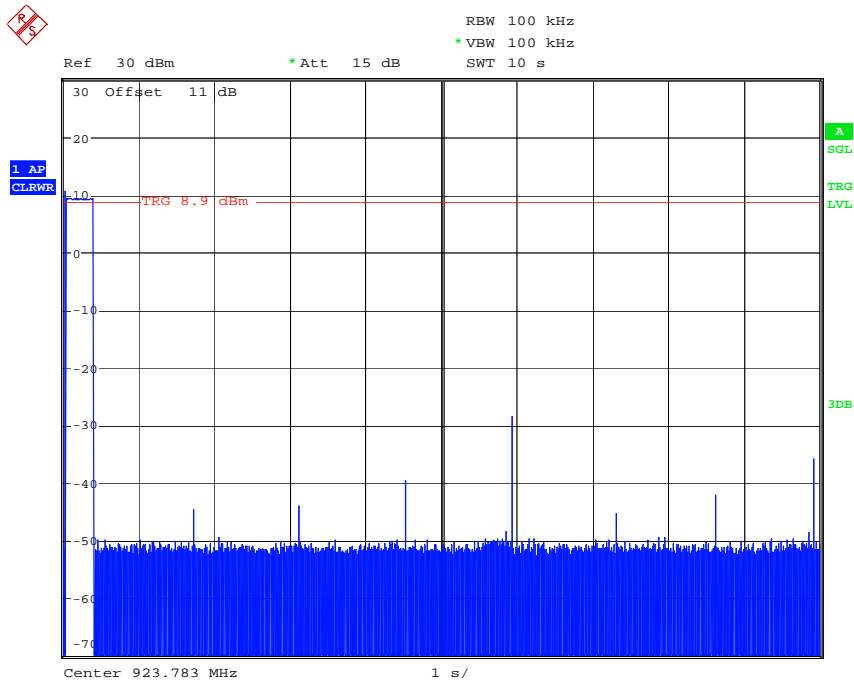


Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21406-14279-C-1
FCC ID: H50TR63



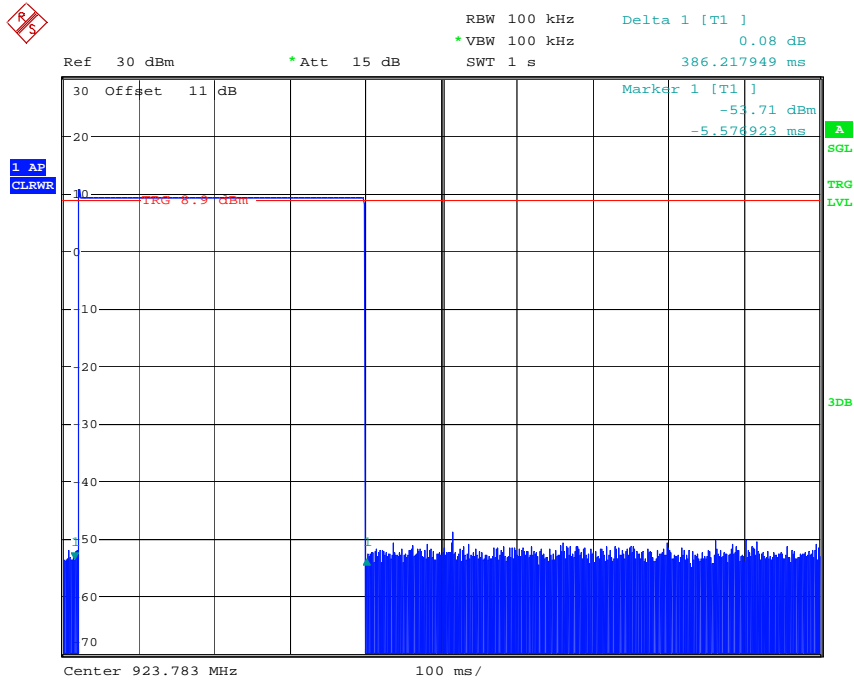
DWELL TIME 915.444MHZ (386.217ms * 1 = 386.217ms)
Date: 16.JUL.2015 23:52:19



DWELL TIME 923.783MHZ
Date: 16.JUL.2015 23:05:32



Registration number: W6M21406-14279-C-1
 FCC ID: H50TR63

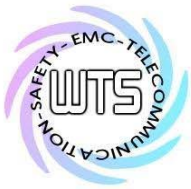


DWELL TIME 923.783MHZ (386.217ms * 1 = 386.217ms)
 Date: 16.JUL.2015 22:53:21

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



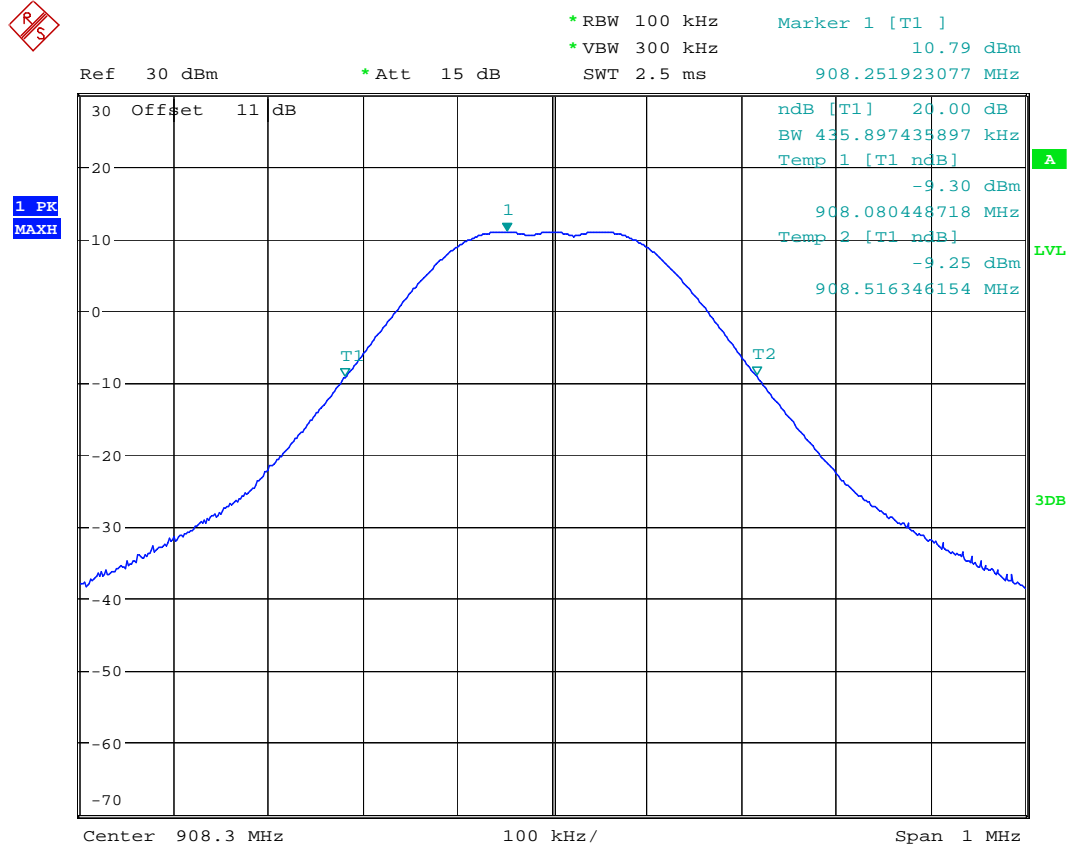
Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

3.9 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.



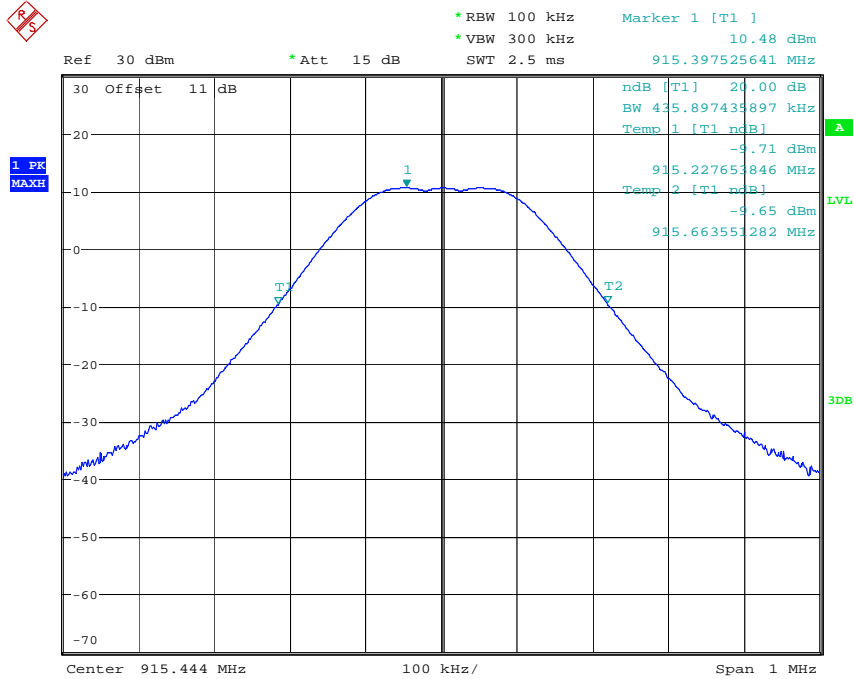
20DB BANDWIDTH 908.3MHZ

Date: 16.JUL.2015 20:42:03

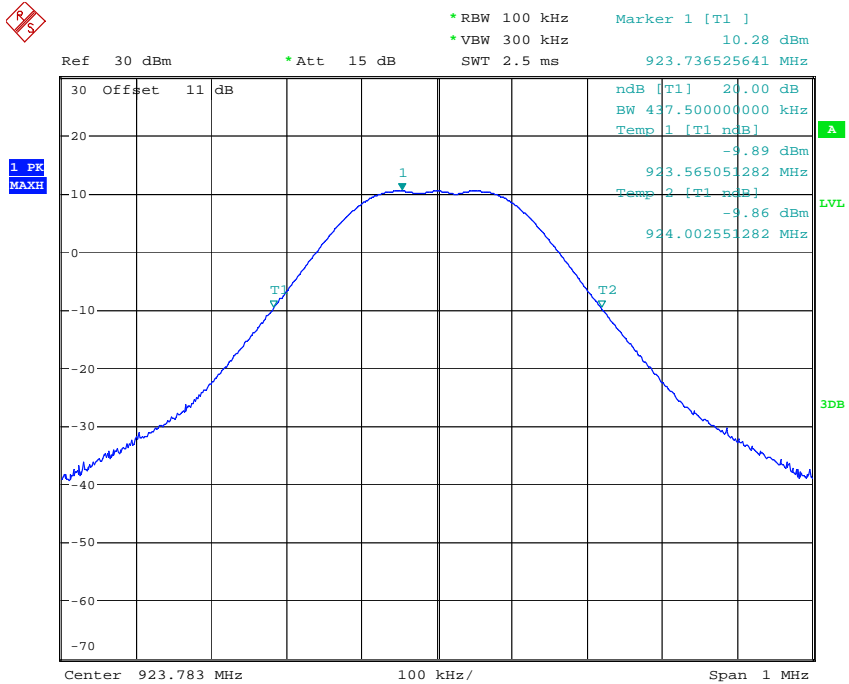


Worldwide Testing Services(Taiwan) Co., Ltd.

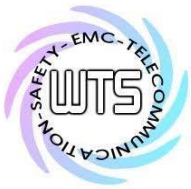
Registration number: W6M21406-14279-C-1
FCC ID: H50TR63



20DB BANDWIDTH 915.444MHZ
Date: 16.JUL.2015 20:43:09



20DB BANDWIDTH 923.783MHZ
Date: 16.JUL.2015 20:44:15



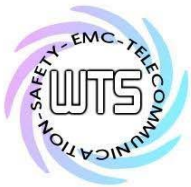
Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

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

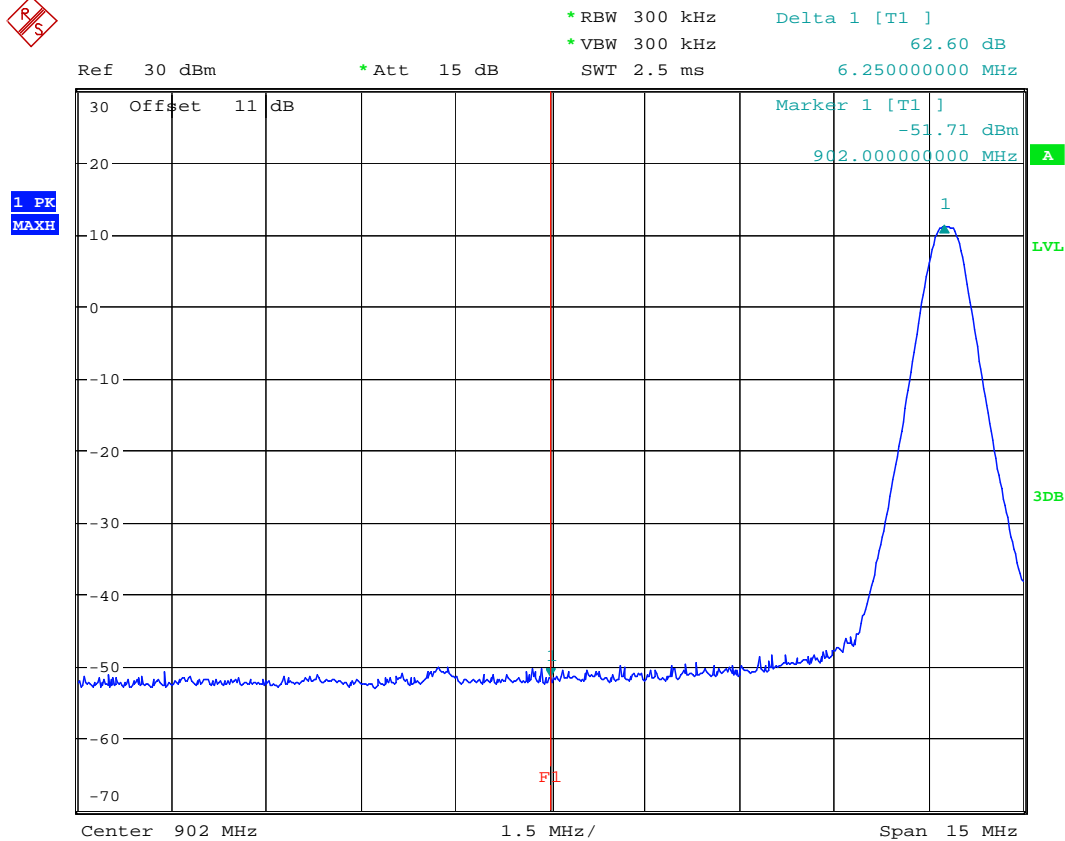


Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

3.10 Band-edge Compliance of RF Emissions

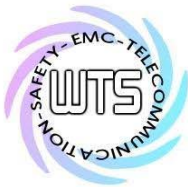
According to FCC rules part 15 subpart C §15.247(c) in any 100 kHz bandwidth outside the frequency band in which the intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100 kHz bandwidth within the band that 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.



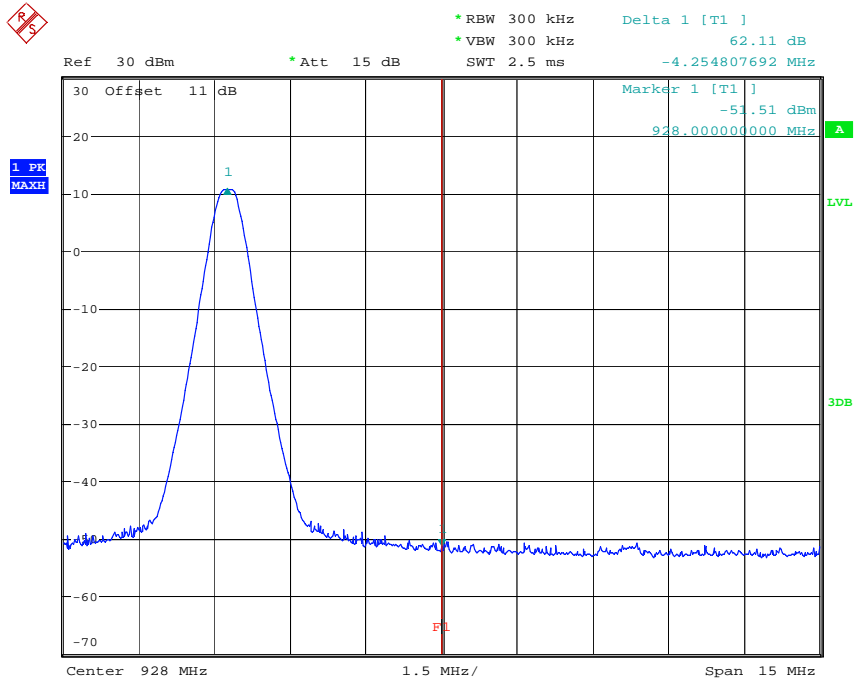
BANDEDGE 908.3MHZ

Date: 16.JUL.2015 20:57:25

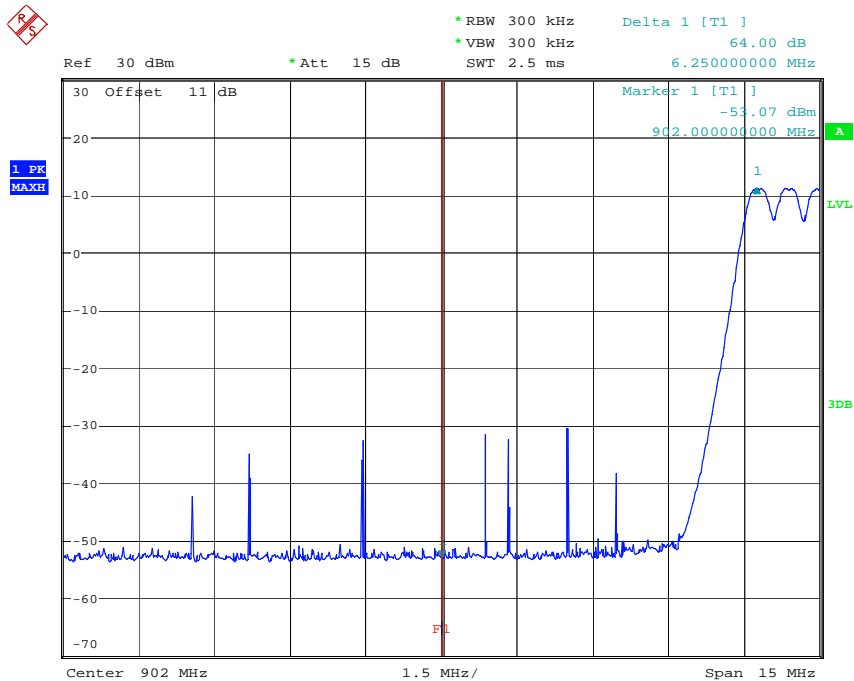


Worldwide Testing Services(Taiwan) Co., Ltd.

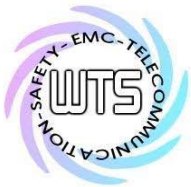
Registration number: W6M21406-14279-C-1
FCC ID: H50TR63



BANDEDGE 923.783MHZ
Date: 16.JUL.2015 20:59:28

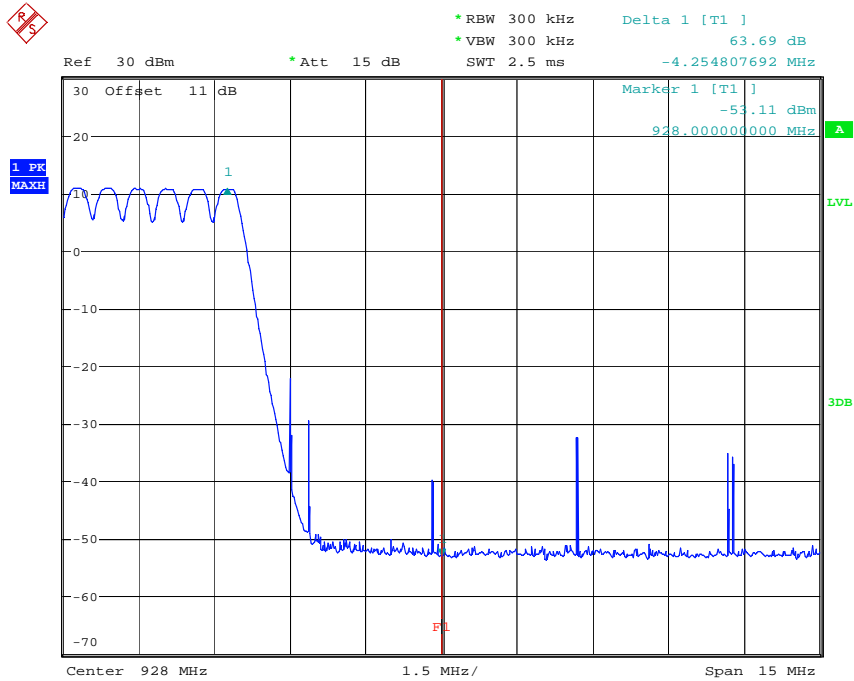


BANDEDGE HOPPING MODE 908.3MHZ
Date: 16.JUL.2015 21:05:54



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21406-14279-C-1
 FCC ID: H5OTR63

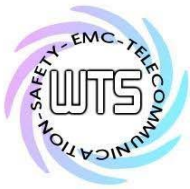


BANDEDGE HOPPING MODE 923.783MHZ
 Date: 16.JUL.2015 21:04:38

Limits:

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

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



Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

3.11 Radiated Emissions from Digital Part

FCC Rule: 15.109

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

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

Explanation: The test results are listed in the separated test report no.: W6M21406-14279-P-15B.

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



Registration number: W6M21406-14279-C-1
 FCC ID: H50TR63

3.12 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.

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

Model: TRE937F Date: --
 Mode: -- Temperature: -- °C Engineer: --
 Polarization: -- Humidity: -- %

Frequency (MHz)	Reading (dBuV)		Factor (dB) Corr.	Result (dBuV)		Limit (dBuV)		Margin (dB)
	QP	Ave.		QP	Ave.	QP	Ave.	
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--
--	--	--	--	--	--	--	--	--

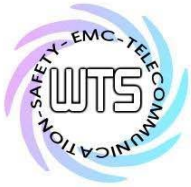
Note

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.**
7. **This test is not required because the EUT is battery-used.**

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 064



Registration number: W6M21406-14279-C-1
FCC ID: H50TR63

Appendix

Measurement diagrams

Spurious Emissions radiated_TX



Radiated Emission Measurement

Operator: Leon

File :1

Data :#1

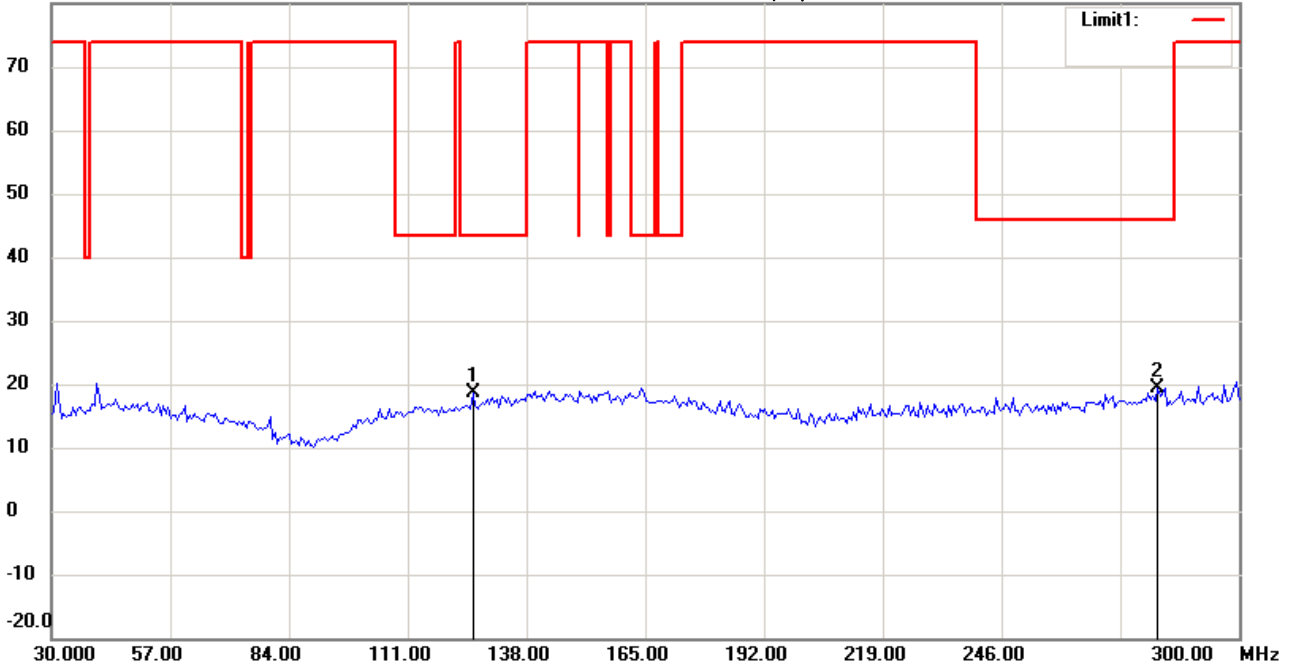
Date: 2015/7/20

Temperature:24 °C

80.0 dBuV/m

Time: 下午 03:04:58

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band 30-300

EUT : W6M21406-14279

M/N:

Test Mode : TX 908.3MHz

Note :

Polarization: *Horizontal*

Power : 3 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
*	125.7715	4.10	peak	14.45	18.55	43.50	100	40	-24.95	
	281.6031	3.79	peak	15.67	19.46	46.00	100	175	-26.54	



Radiated Emission Measurement

Operator: Leon

File :1

Data :#2

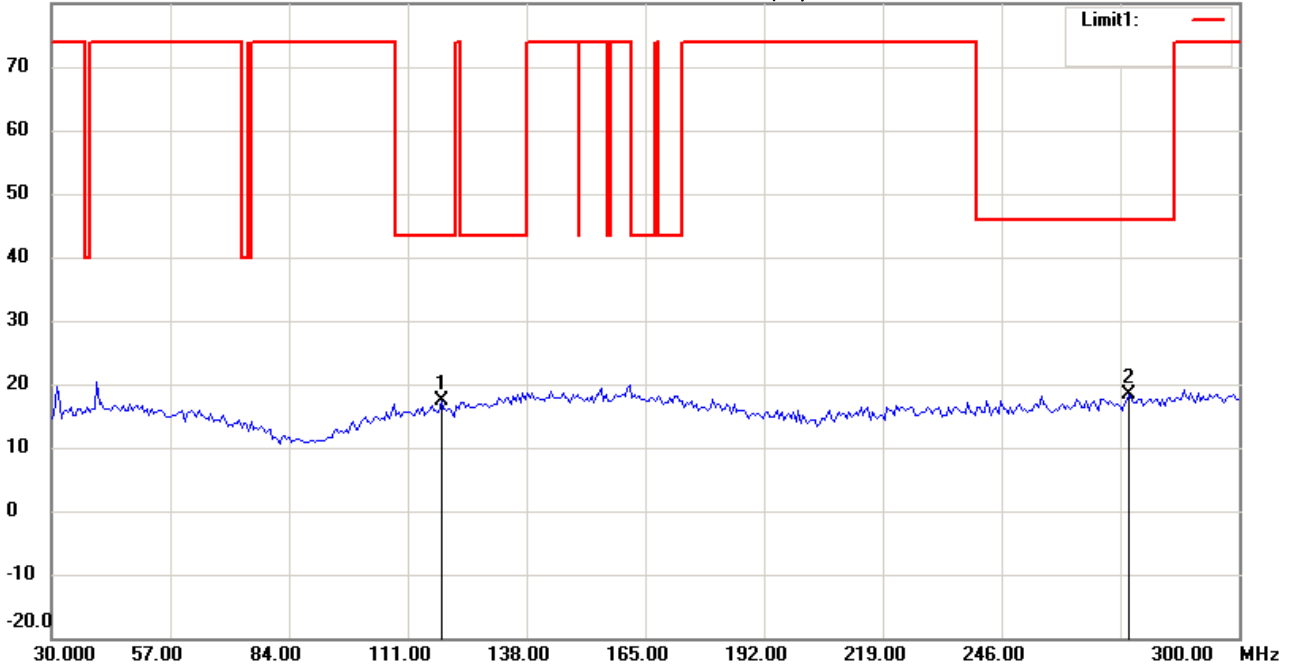
Date: 2015/7/20

Temperature:24 °C

80.0 dBuV/m

Time: 下午 03:05:45

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band 30-300

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 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
*	118.7375	3.49	peak	13.89	17.38	43.50	100	90	-26.12	
	275.1102	3.09	peak	15.36	18.45	46.00	100	155	-27.55	



Radiated Emission Measurement

Operator: Leon

File :2

Data :#1

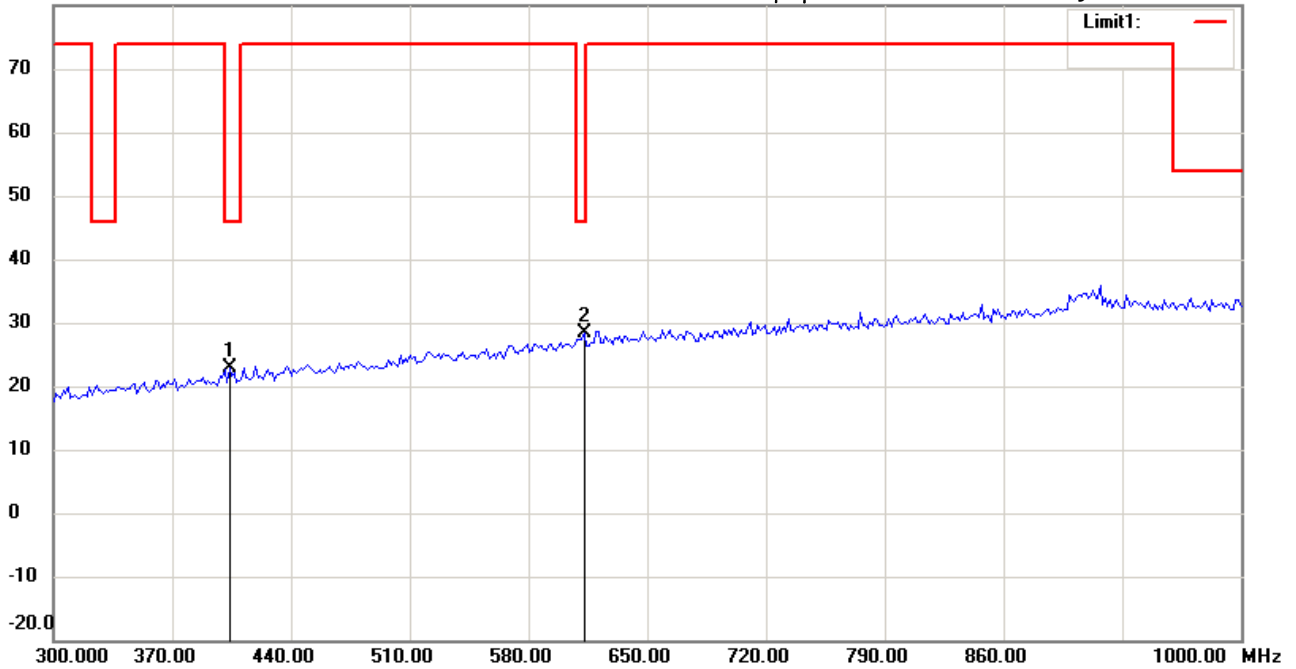
Date: 2015/7/20

Temperature:24 °C

80.0 dBuV/m

Time: 下午 03:07:46

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band 300-1000

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 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
	403.8075	3.89	peak	18.91	22.80	46.00	100	120	-23.20	
*	612.8256	4.59	peak	23.70	28.29	46.00	100	75	-17.71	



Radiated Emission Measurement

Operator: Leon

File :2

Data :#2

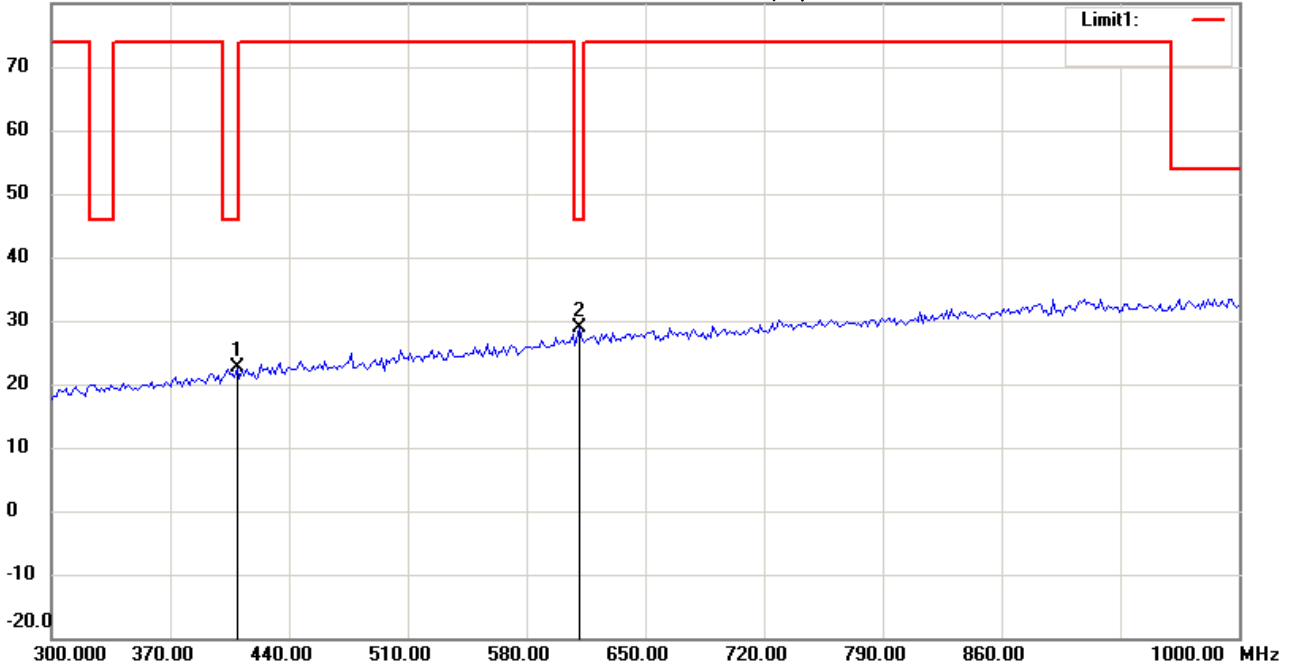
Date: 2015/7/20

Temperature:24 °C

80.0 dBuV/m

Time: 下午 03:08:31

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band 300-1000

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 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
	409.4187	3.55	peak	19.03	22.58	46.00	100	135	-23.42	
*	611.4228	5.27	peak	23.67	28.94	46.00	100	35	-17.06	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#1

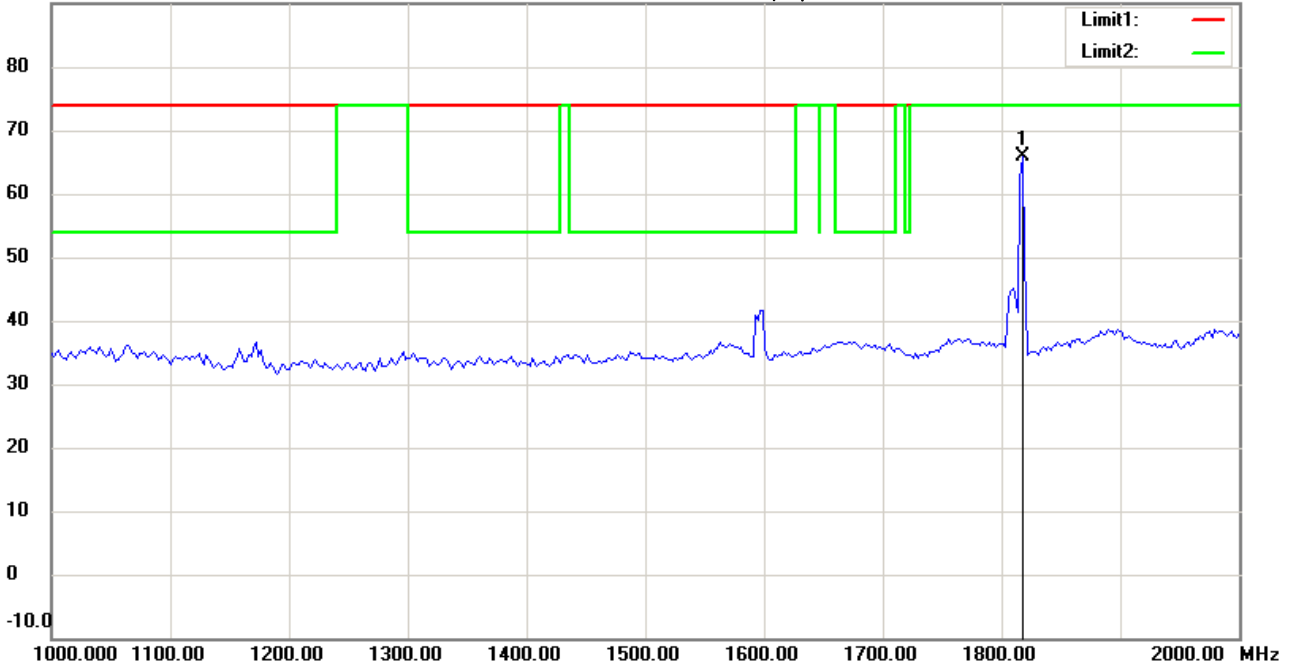
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:29:07

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 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
*	1817.635	72.93	peak	-7.04	65.89	74.00	100	65	-8.11	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#7

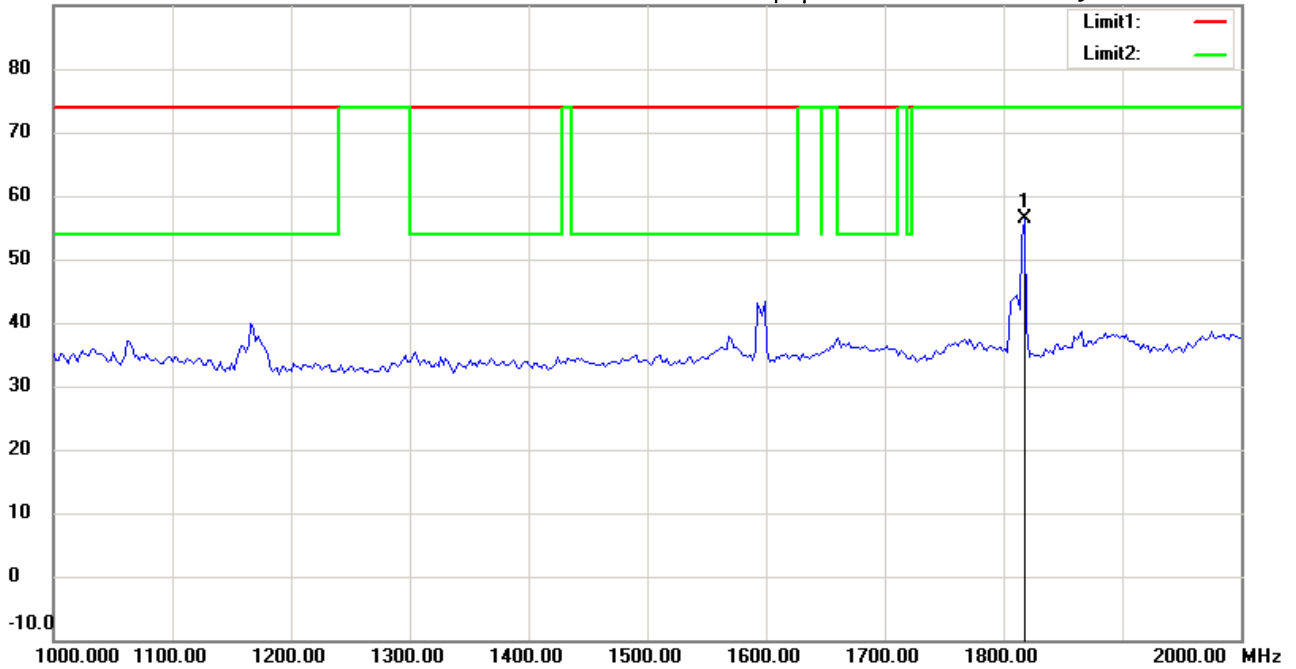
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:32:31

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 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
*	1817.635	63.49	peak	-7.04	56.45	74.00	100	90	-17.55	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#2

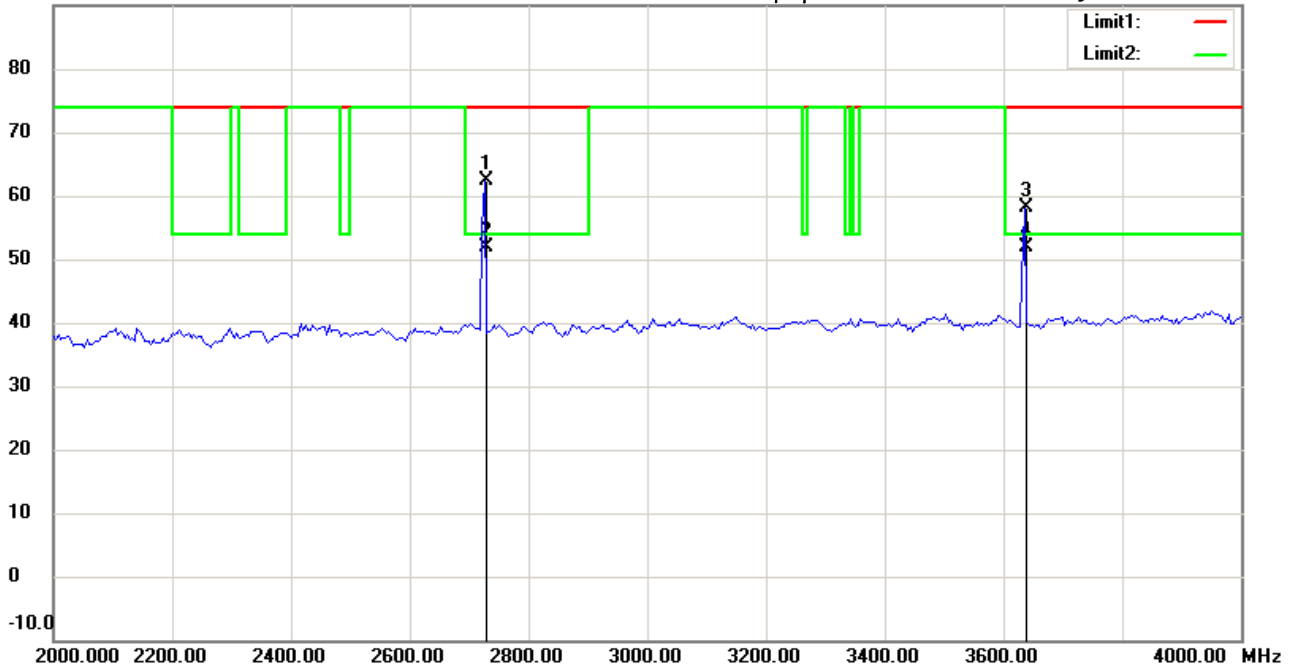
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:29:52

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 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
	2725.451	65.30	peak	-3.03	62.27	74.00	100	155	-11.73	
	2725.451	54.95	AVG	-3.03	51.92	54.00	100	155	-2.08	
	3635.271	59.38	peak	-1.17	58.21	74.00	100	230	-15.79	
*	3635.271	53.11	AVG	-1.17	51.94	54.00	100	230	-2.06	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#8

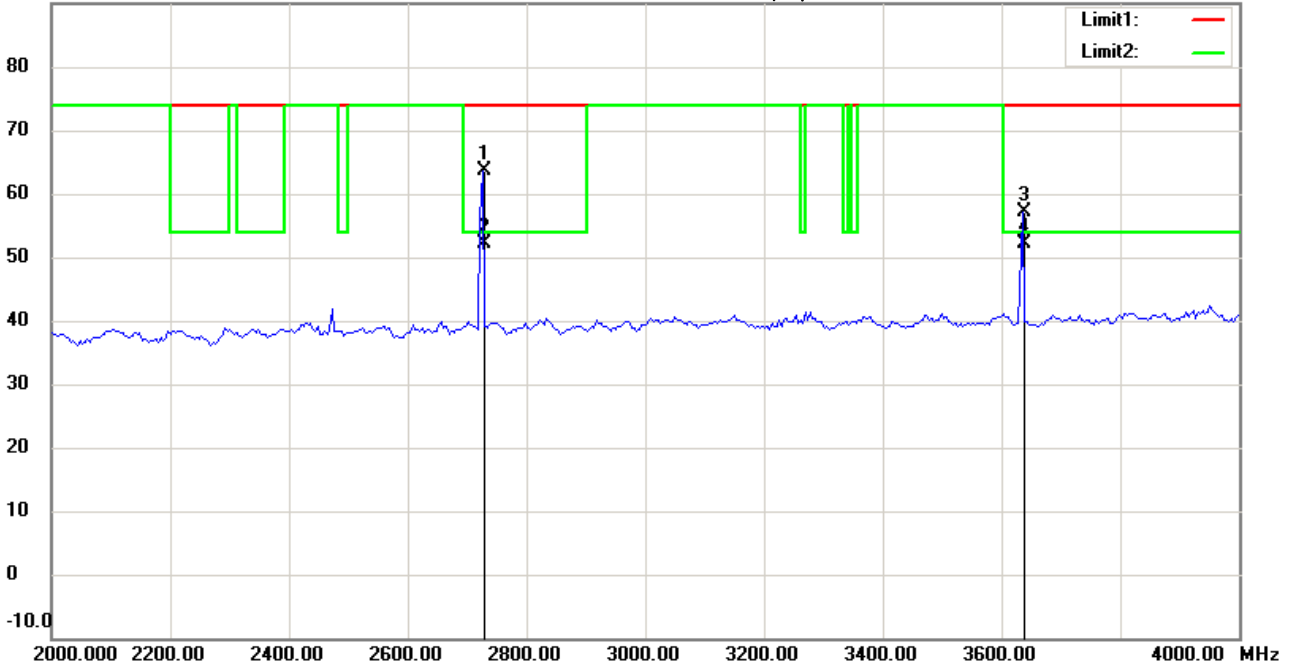
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:33:16

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 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
	2725.451	66.65	peak	-3.03	63.62	74.00	100	175	-10.38	
*	2725.451	55.12	AVG	-3.03	52.09	54.00	100	175	-1.91	
	3635.271	58.27	peak	-1.17	57.10	74.00	100	220	-16.90	
	3635.271	53.20	AVG	-1.17	52.03	54.00	100	220	-1.97	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#3

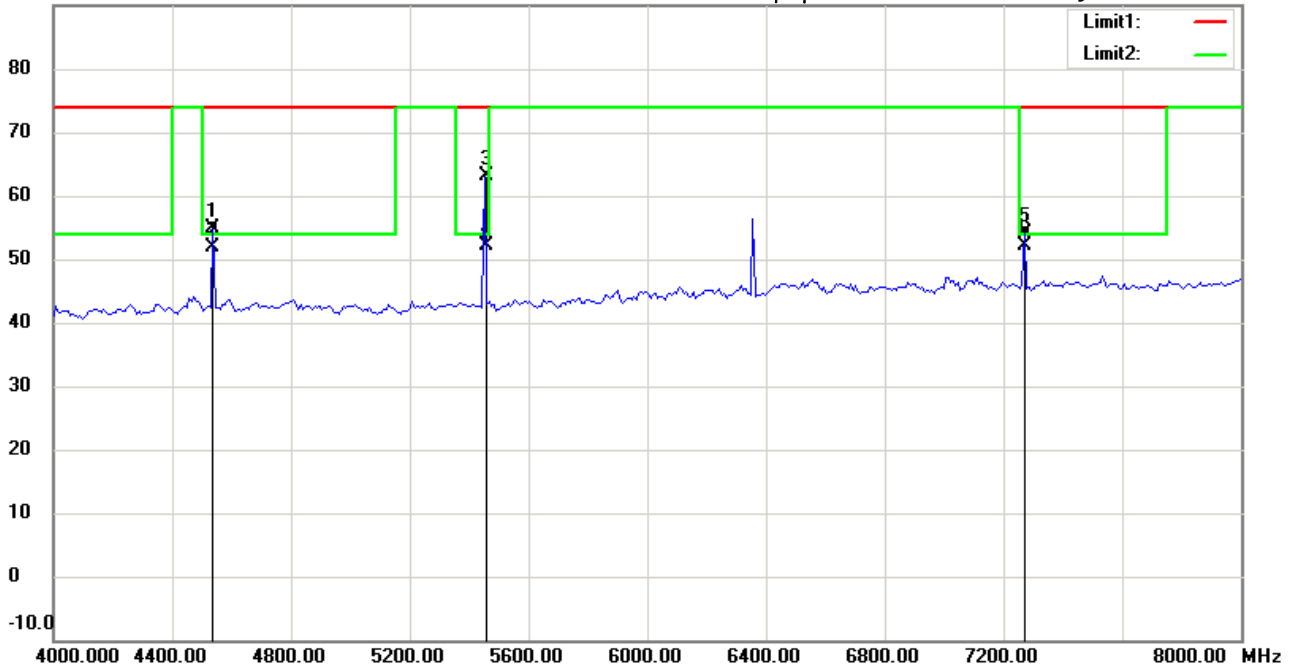
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:30:38

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 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
	4537.074	53.95	peak	1.00	54.95	74.00	100	95	-19.05	
	4537.074	50.89	AVG	1.00	51.89	54.00	100	95	-2.11	
	5450.902	60.64	peak	2.38	63.02	74.00	100	127	-10.98	
	5450.902	49.67	AVG	2.38	52.05	54.00	100	127	-1.95	
	7270.541	49.30	peak	4.83	54.13	74.00	100	140	-19.87	
*	7270.541	47.23	AVG	4.83	52.06	54.00	100	140	-1.94	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#9

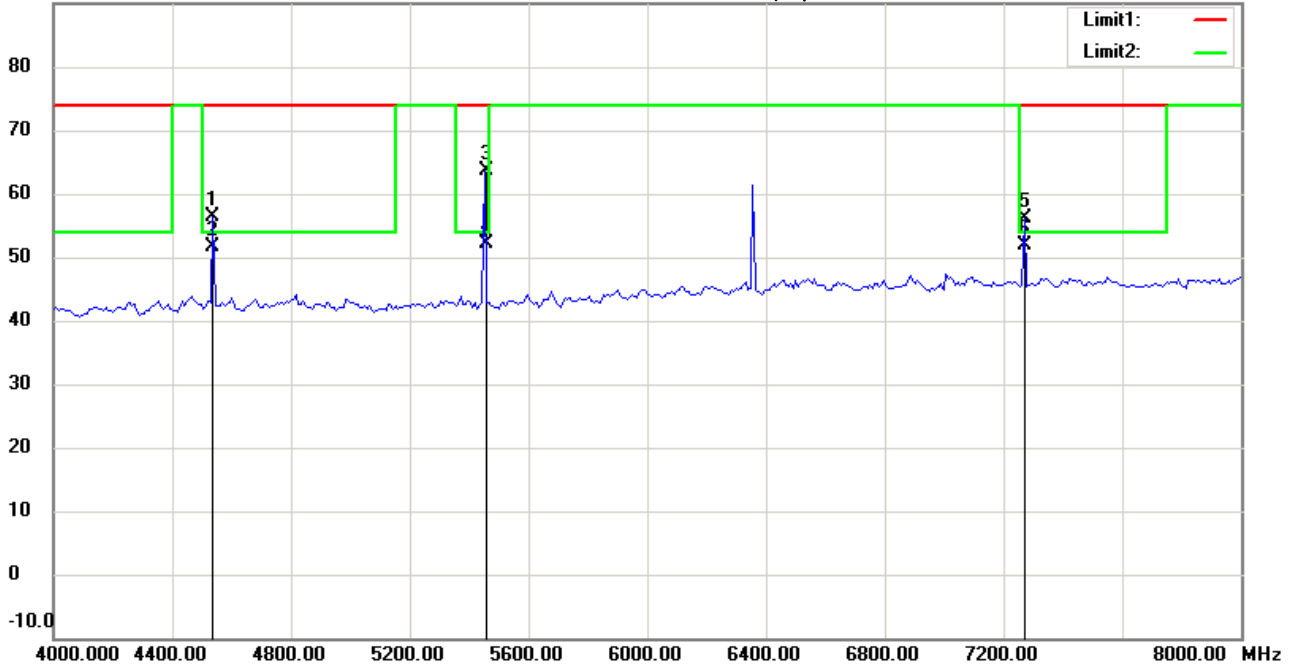
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:34:02

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 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
	4537.074	55.28	peak	1.00	56.28	74.00	100	75	-17.72	
	4537.074	50.69	AVG	1.00	51.69	54.00	100	75	-2.31	
	5450.902	61.36	peak	2.38	63.74	74.00	100	120	-10.26	
*	5450.902	49.76	AVG	2.38	52.14	54.00	100	120	-1.86	
	7270.541	51.41	peak	4.83	56.24	74.00	100	195	-17.76	
	7270.541	47.15	AVG	4.83	51.98	54.00	100	195	-2.02	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#4

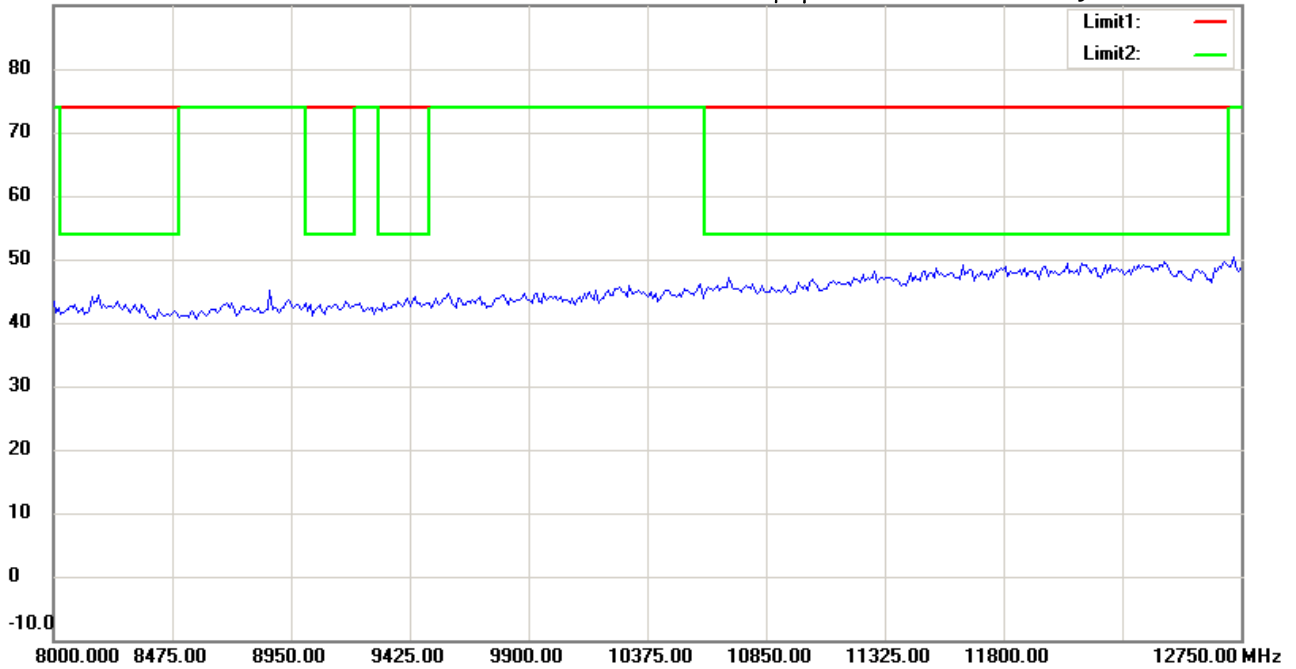
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:31:22

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 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
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Radiated Emission Measurement

Operator: Leon

File :3

Data :#10

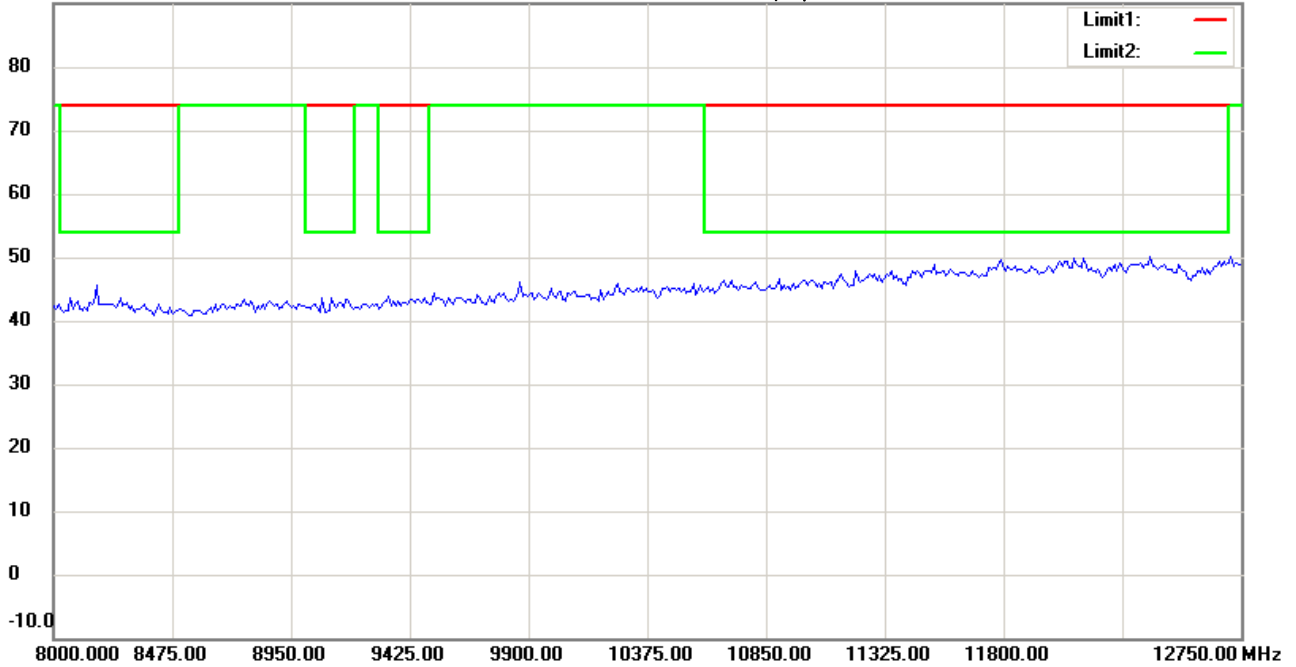
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:34:46

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

EUT : W6M21406-14279

M/N:

Test Mode : TX 908.3MHz

Note :

Polarization: *Vertical*

Power : 3 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
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Radiated Emission Measurement

Operator: Roy

File :1

Data :#1

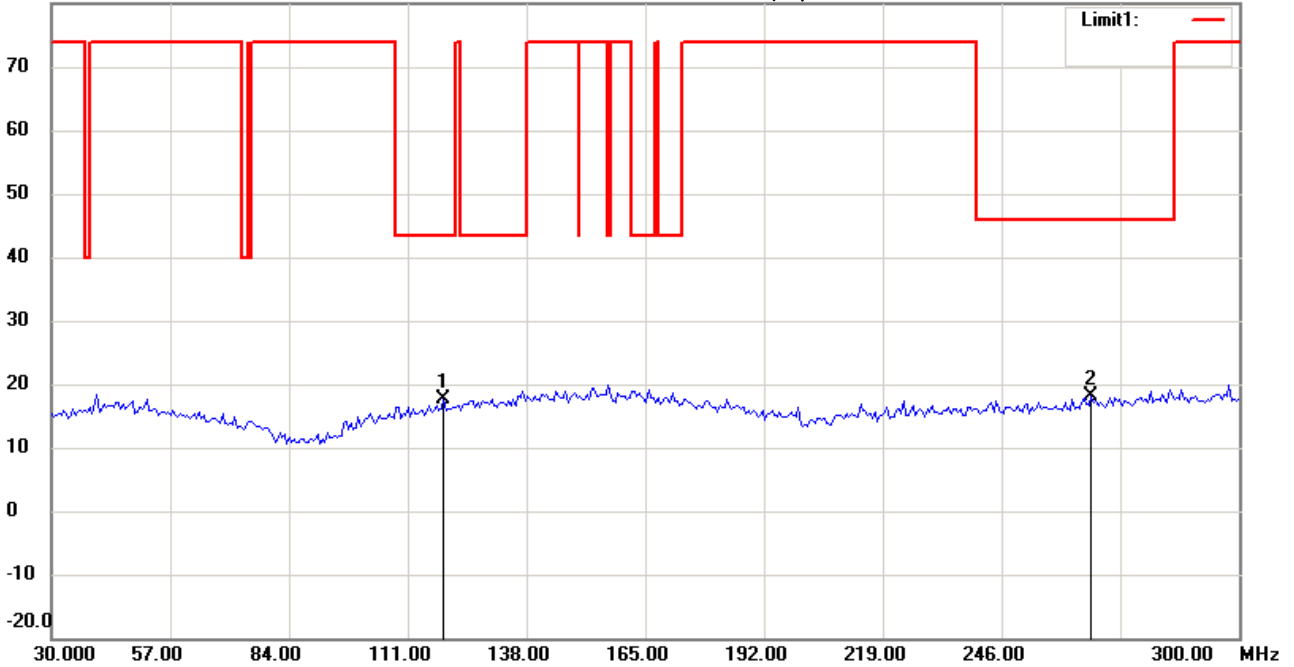
Date: 2015/7/13

Temperature:24 °C

80.0 dBuV/m

Time: 下午 11:15:23

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band 30-300

EUT : W6M21406-14279

M/N:

Test Mode : TX 915.444MHz

Note :

Polarization: *Horizontal*

Power : 3 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
*	119.2785	3.63	peak	13.93	17.56	43.50	100	80	-25.94	
	266.4528	3.35	peak	14.90	18.25	46.00	100	225	-27.75	



Radiated Emission Measurement

Operator: Roy

File :1

Data :#2

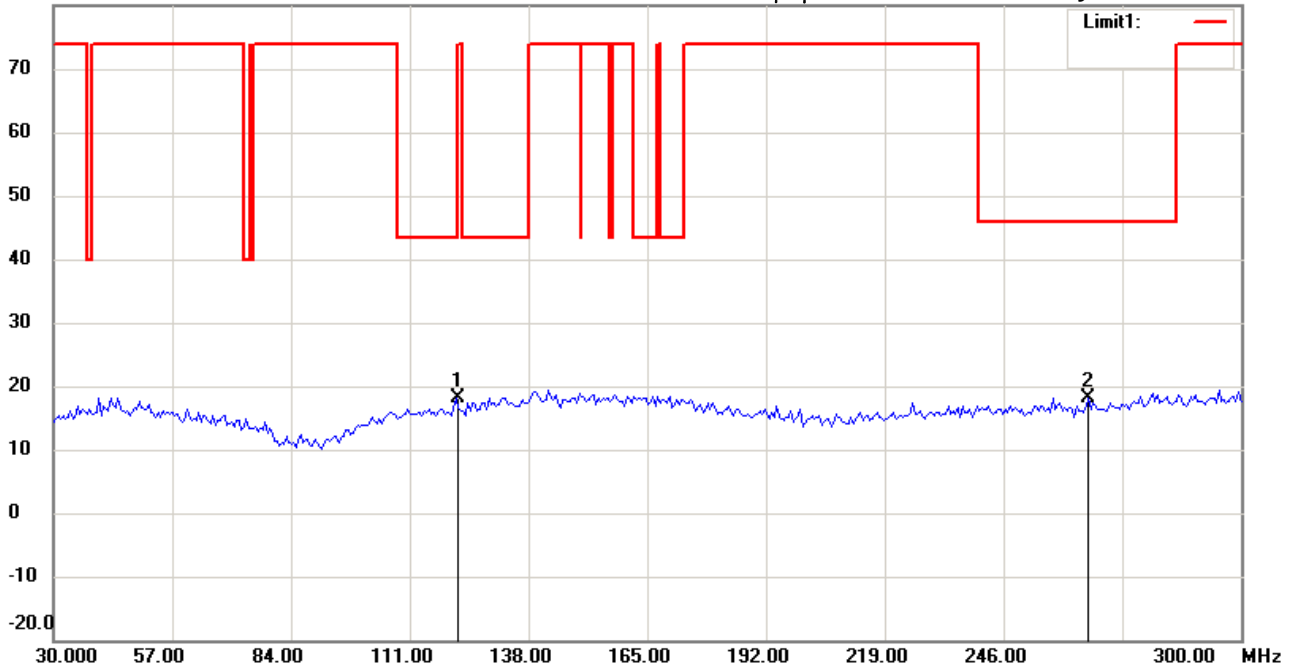
Date: 2015/7/13

Temperature:24 °C

80.0 dBuV/m

Time: 下午 11:16:09

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band 30-300

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.444MHz

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
*	121.4430	4.12	peak	14.10	18.22	43.50	100	215	-25.28	
	265.3707	3.34	peak	14.85	18.19	46.00	100	270	-27.81	



Radiated Emission Measurement

Operator: Roy

File :2

Data :#1

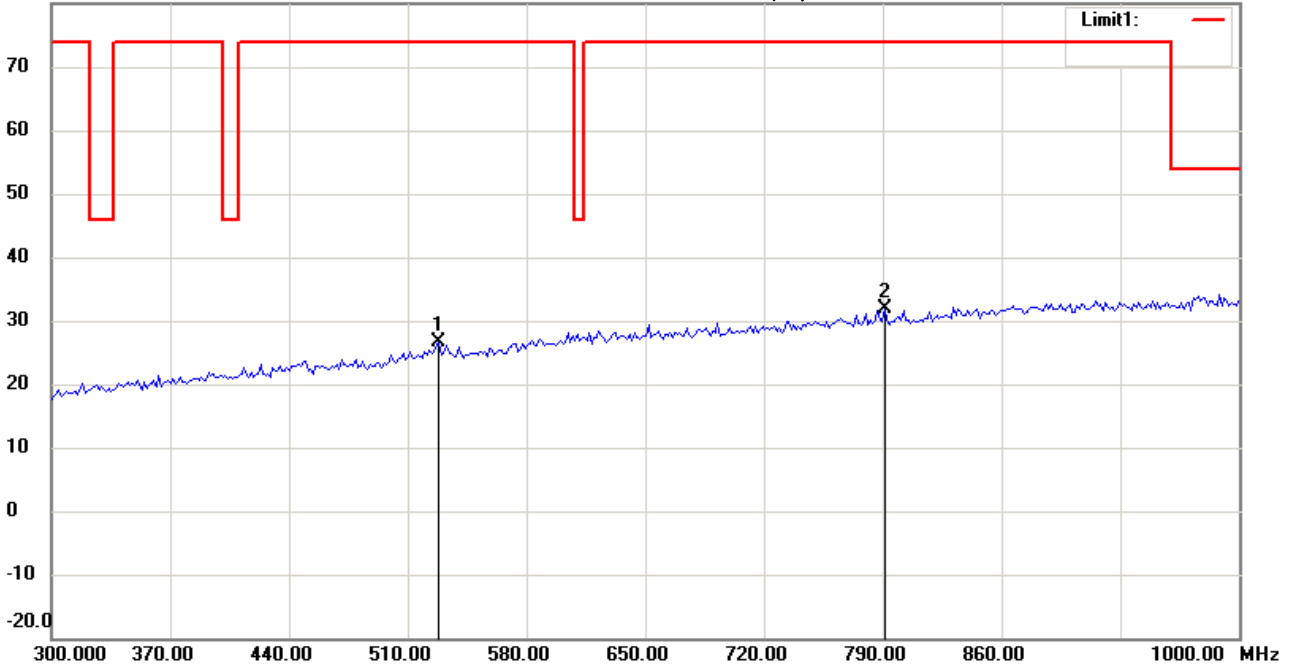
Date: 2015/7/13

Temperature:24 °C

80.0 dBuV/m

Time: 下午 11:17:22

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band 300-1000

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.444MHz

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
	528.6572	5.06	peak	21.51	26.57	74.00	100	80	-47.43	
*	790.9820	5.30	peak	26.48	31.78	74.00	100	235	-42.22	



Radiated Emission Measurement

Operator: Roy

File :2

Data :#2

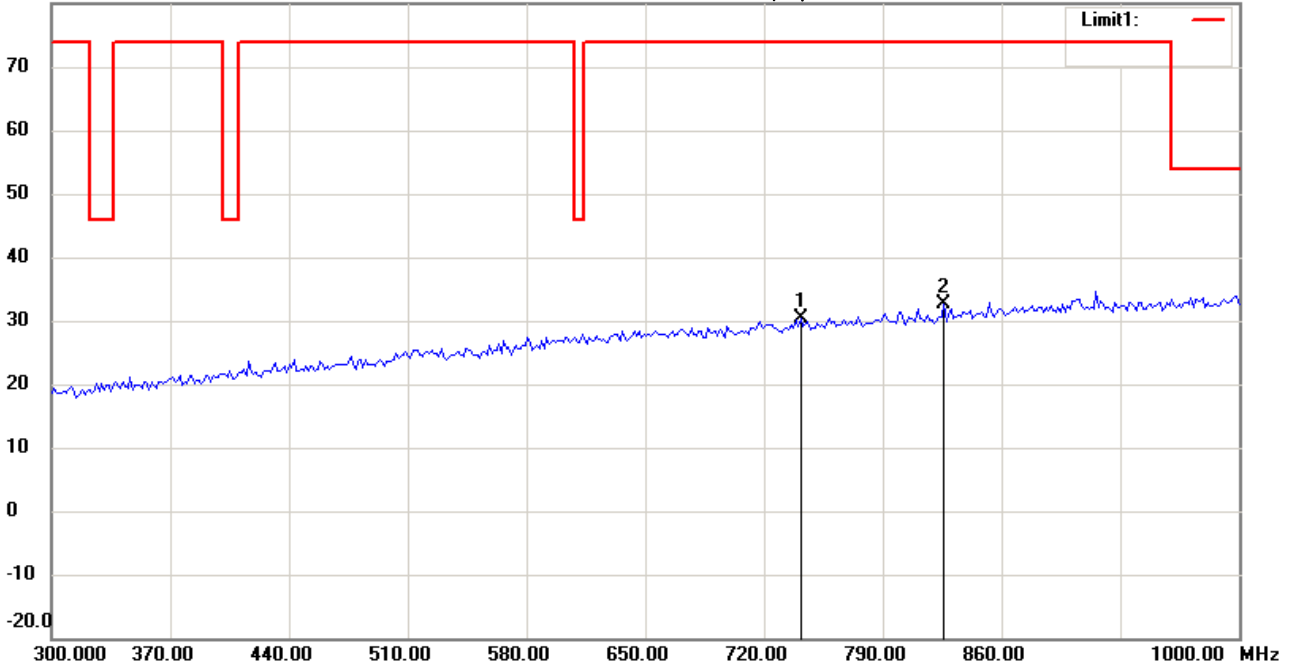
Date: 2015/7/13

Temperature:24 °C

80.0 dBuV/m

Time: 下午 11:18:07

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band 300-1000

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.444MHz

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
	741.8837	4.47	peak	25.81	30.28	74.00	100	140	-43.72	
*	826.0521	5.60	peak	27.09	32.69	74.00	100	225	-41.31	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#1

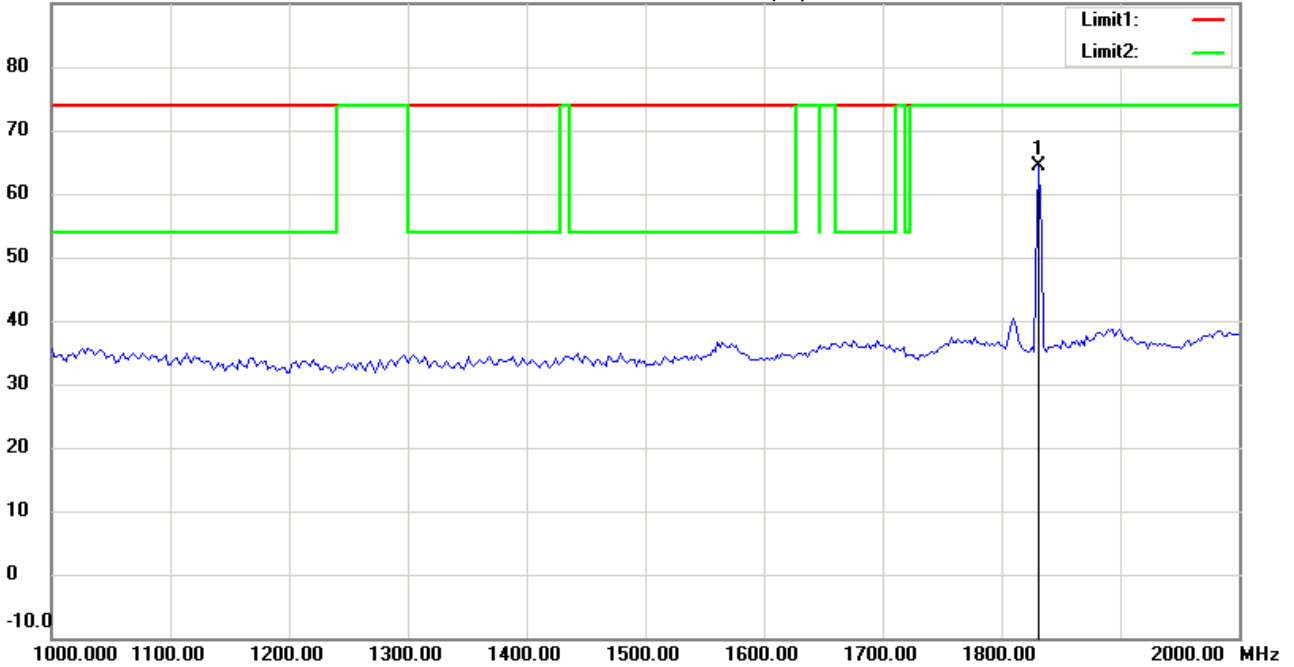
Date: 2015/7/13

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:36:04

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.444MHz

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
*	1831.663	71.33	peak	-6.86	64.47	74.00	100	155	-9.53	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#7

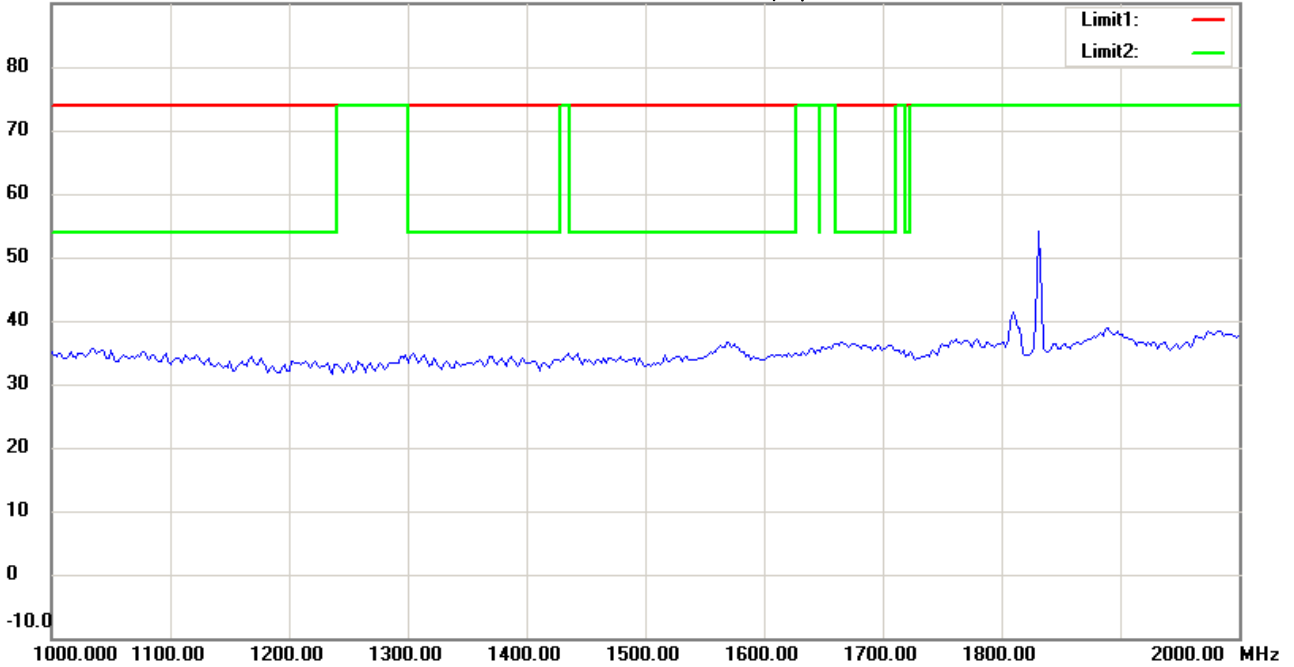
Date: 2015/7/13

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:39:28

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.444MHz

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



Radiated Emission Measurement

Operator: Leon

File :3

Data :#2

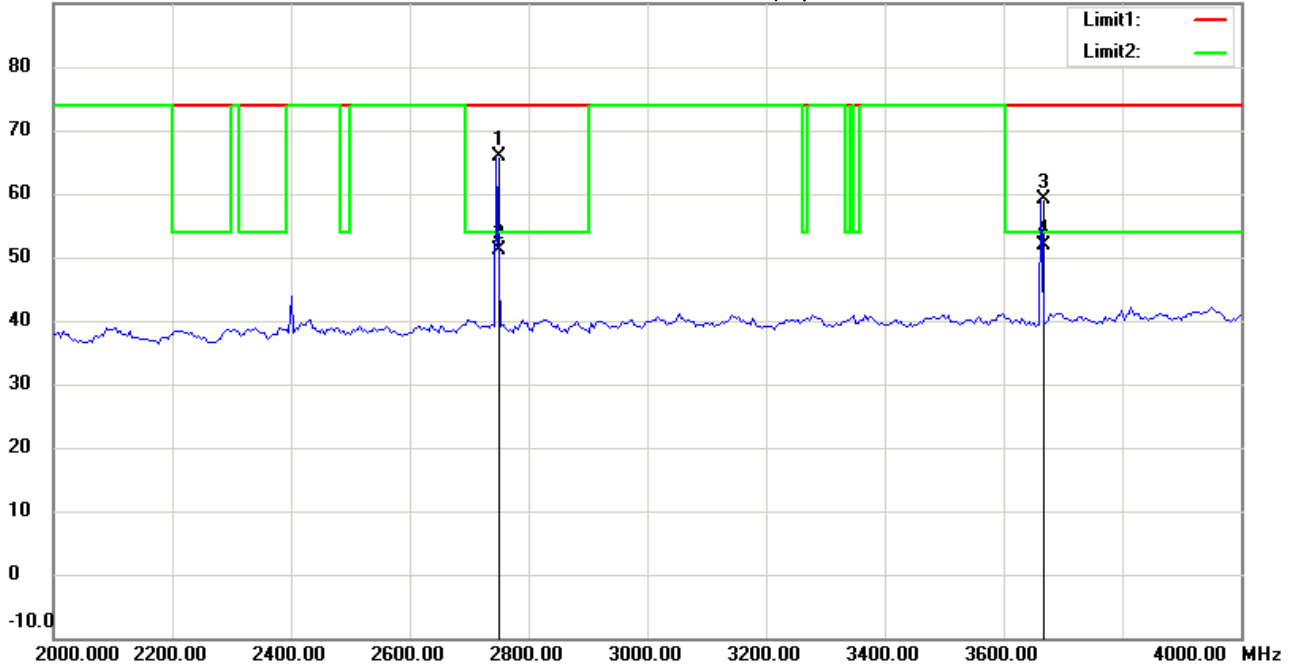
Date: 2015/7/13

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:36:49

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.444MHz

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
	2746.371	68.97	peak	-2.97	66.00	74.00	100	140	-8.00	
	2746.371	53.98	AVG	-2.97	51.01	54.00	100	140	-2.99	
	3663.327	60.28	peak	-1.15	59.13	74.00	100	175	-14.87	
*	3663.327	53.10	AVG	-1.15	51.95	54.00	100	175	-2.05	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#8

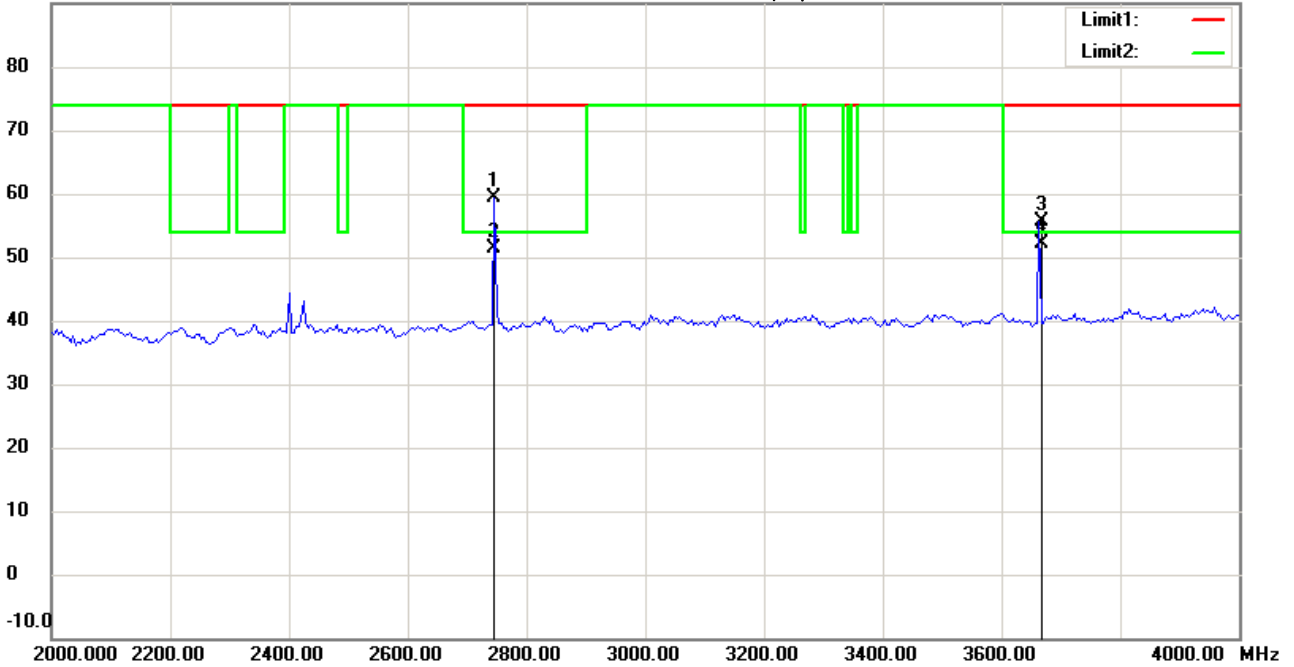
Date: 2015/7/13

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:40:14

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.444MHz

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
	2745.491	62.27	peak	-2.97	59.30	74.00	100	55	-14.70	
	2745.491	54.26	AVG	-2.97	51.29	54.00	100	55	-2.71	
	3663.327	56.66	peak	-1.15	55.51	74.00	100	160	-18.49	
*	3663.327	53.20	AVG	-1.15	52.05	54.00	100	160	-1.95	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#3

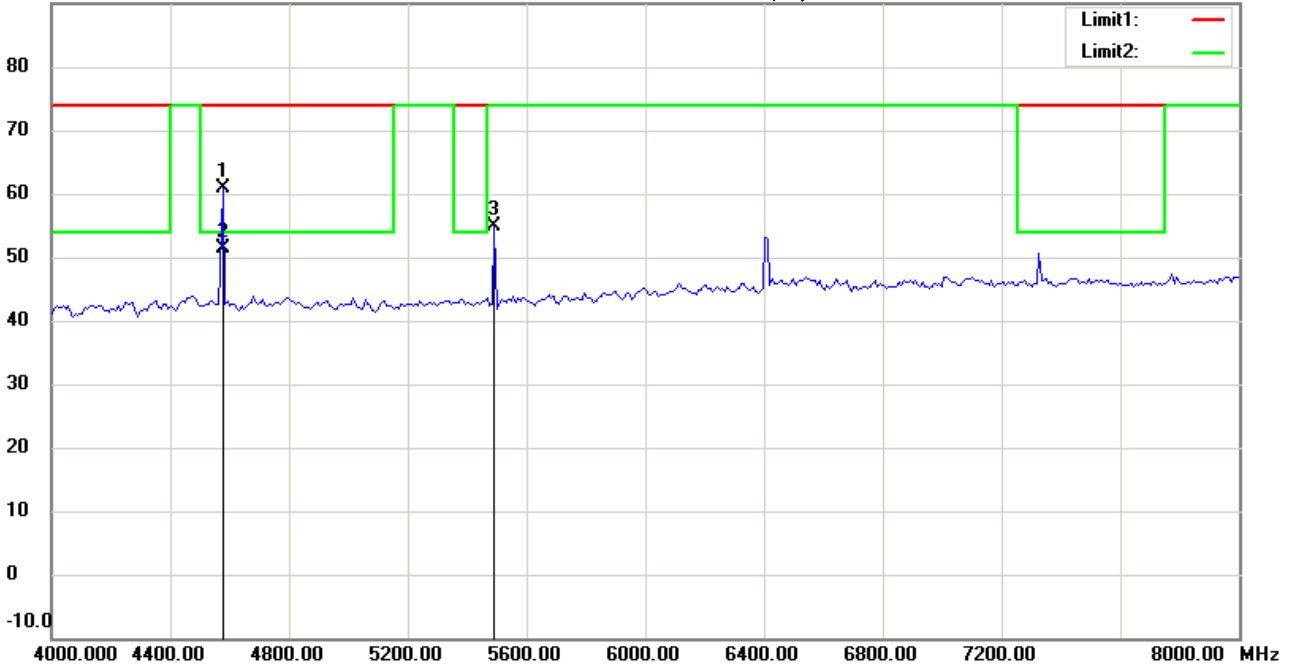
Date: 2015/7/13

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:37:35

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.444MHz

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	60.10	peak	0.82	60.92	74.00	100	210	-13.08	
*	4577.154	50.59	AVG	0.82	51.41	54.00	100	210	-2.59	
	5490.982	52.32	peak	2.44	54.76	74.00	100	165	-19.24	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#9

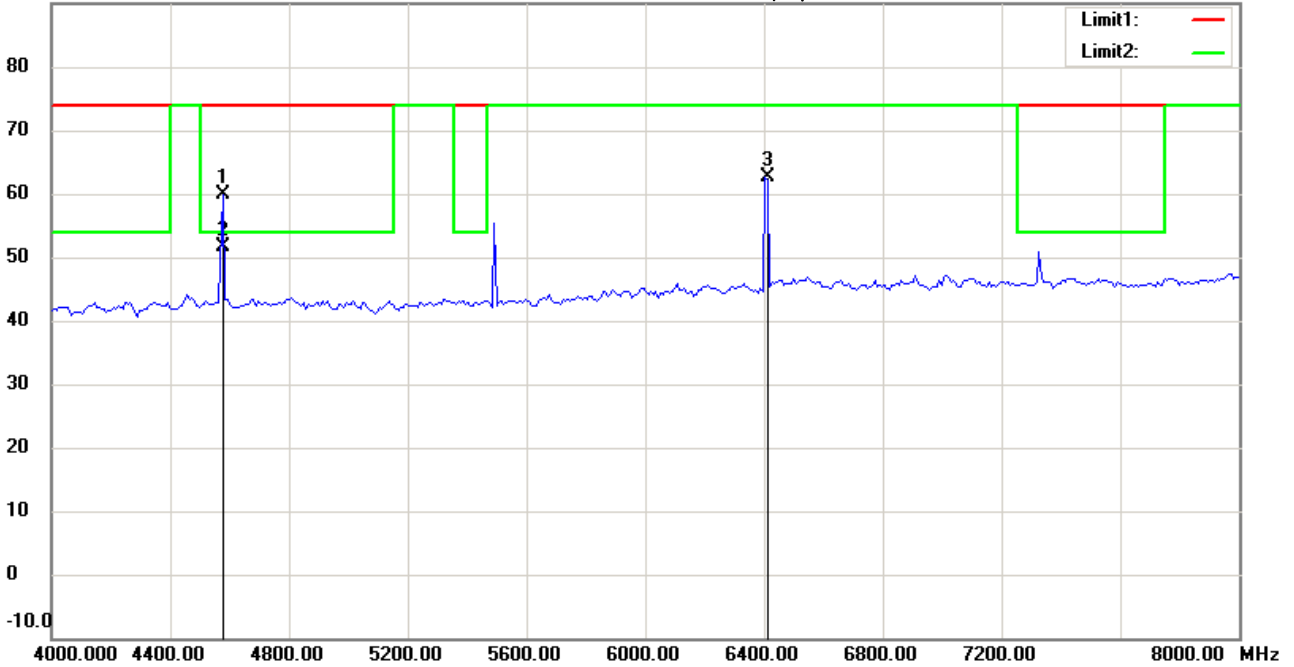
Date: 2015/7/13

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:40:59

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.444MHz

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	59.18	peak	0.82	60.00	74.00	100	95	-14.00	
*	4577.154	50.78	AVG	0.82	51.60	54.00	100	95	-2.40	
	6404.810	57.70	peak	4.81	62.51	74.00	100	210	-11.49	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#4

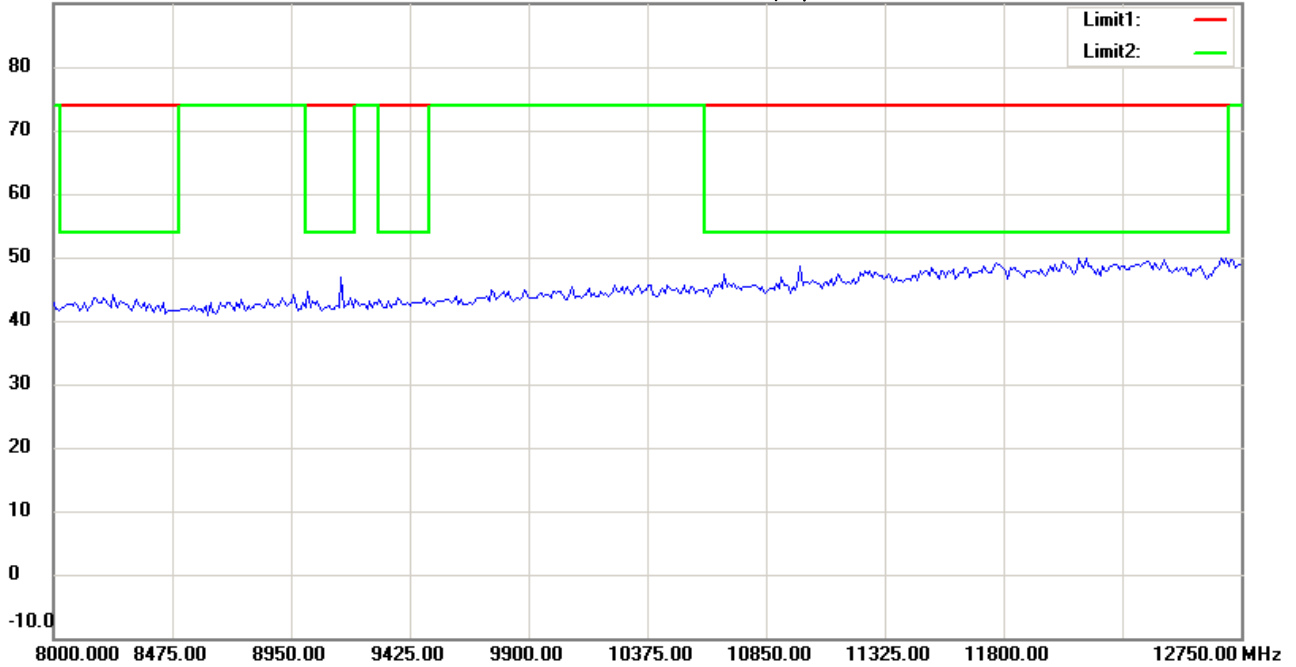
Date: 2015/7/13

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:38:19

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.444MHz

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
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Radiated Emission Measurement

Operator: Leon

File :3

Data :#10

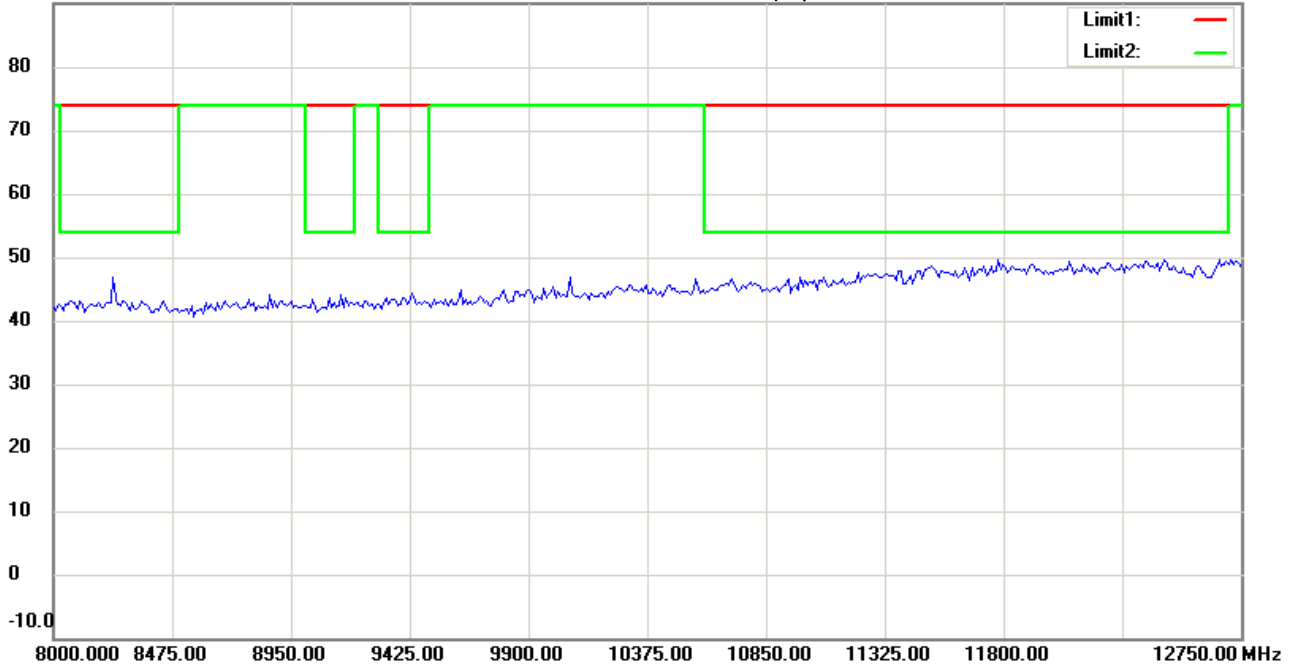
Date: 2015/7/13

Temperature:24 °C

90.0 dBuV/m

Time: 下午 11:41:44

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 Vd.c.

M/N:

Distance: 3m

Test Mode : TX 915.444MHz

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
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Radiated Emission Measurement

Operator: Leon

File :1

Data :#1

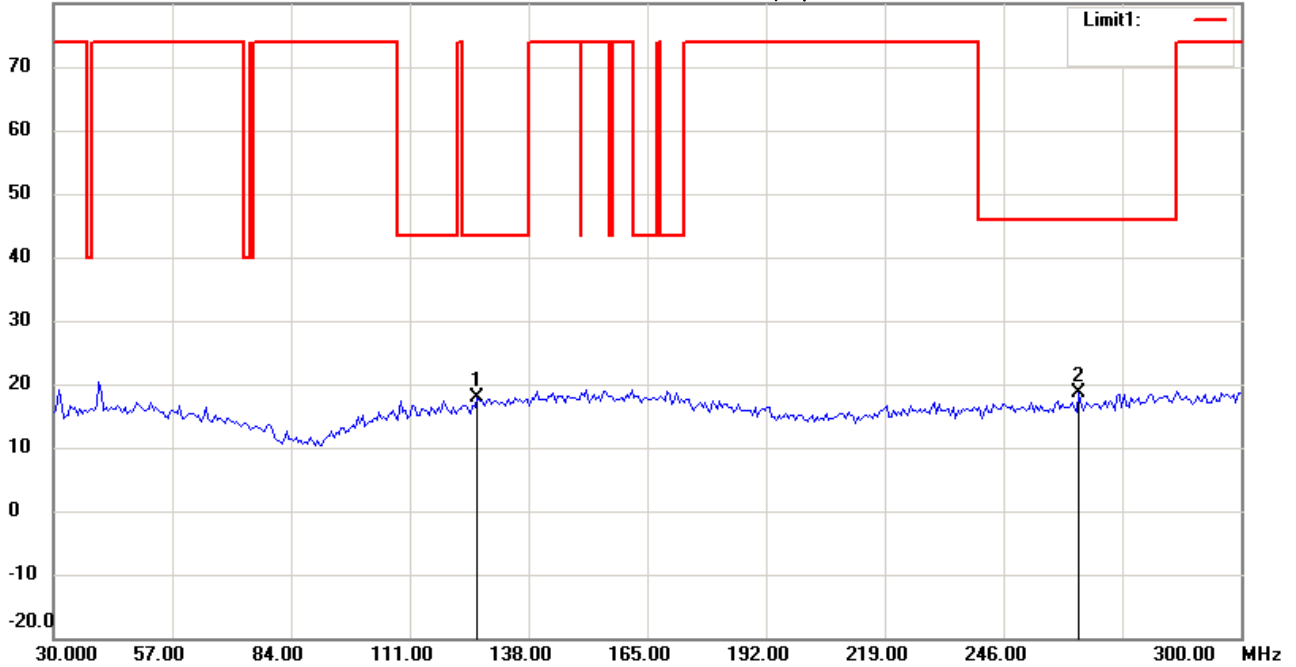
Date: 2015/7/20

Temperature:24 °C

80.0 dBuV/m

Time: 下午 03:21:11

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band 30-300

EUT : W6M21406-14279

M/N:

Test Mode : TX 923.783MHz

Note :

Polarization: *Horizontal*

Power : 3 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
*	126.3126	3.48	peak	14.49	17.97	43.50	100	140	-25.53	
	263.2063	3.84	peak	14.75	18.59	46.00	100	65	-27.41	



Radiated Emission Measurement

Operator: Leon

File :1

Data :#2

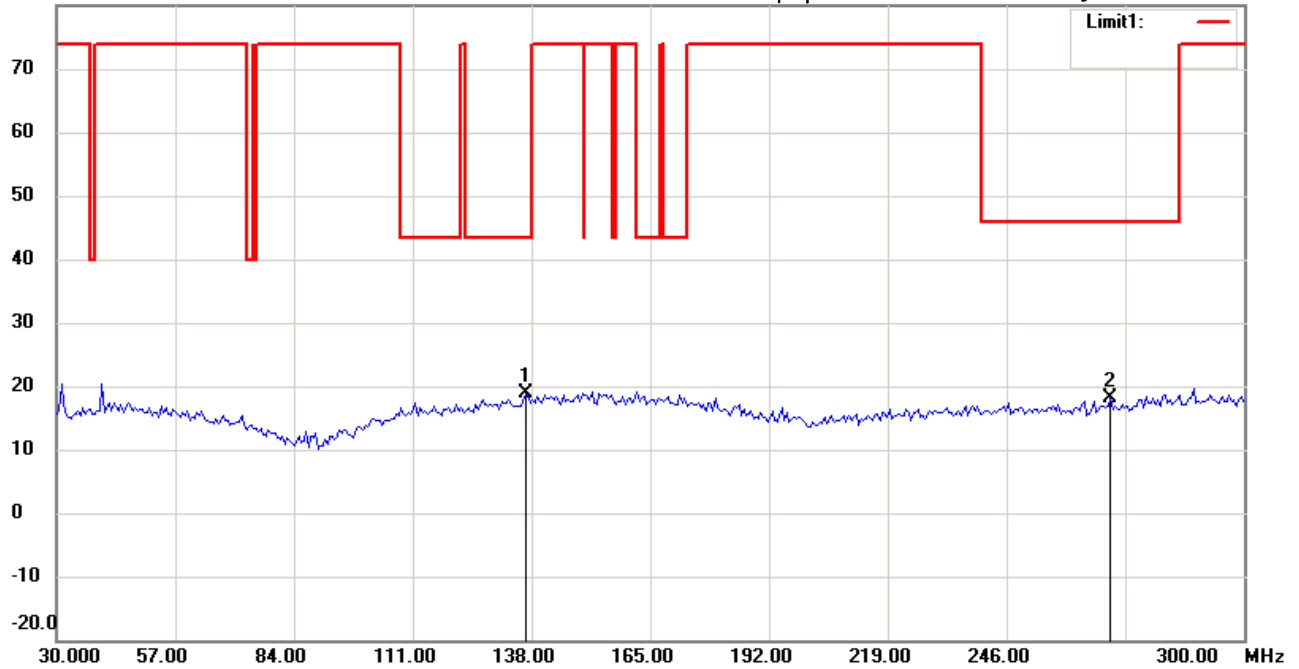
Date: 2015/7/20

Temperature:24 °C

80.0 dBuV/m

Time: 下午 03:21:57

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band 30-300

EUT : W6M21406-14279

M/N:

Test Mode : TX 923.783MHz

Note :

Polarization: *Vertical*

Power : 3 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
*	136.5932	3.74	peak	15.19	18.93	43.50	100	140	-24.57	
	269.6994	3.11	peak	15.06	18.17	46.00	100	15	-27.83	



Radiated Emission Measurement

Operator: Leon

File :2

Data :#1

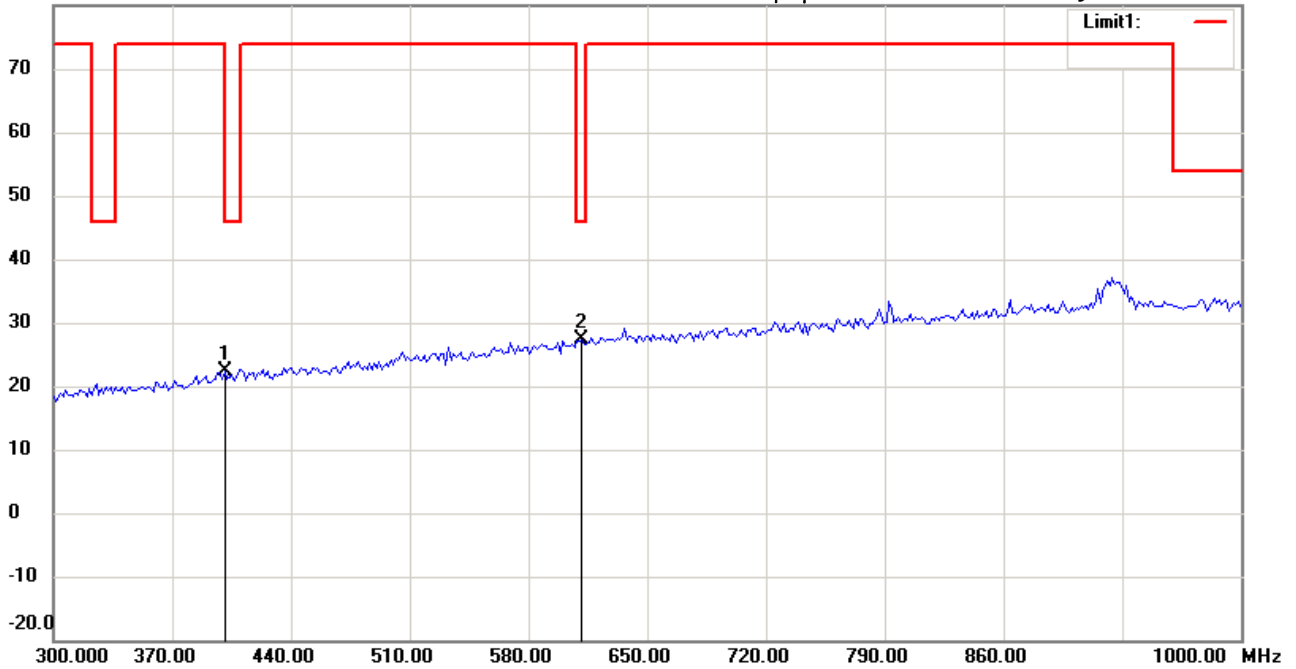
Date: 2015/7/20

Temperature:24 °C

80.0 dBuV/m

Time: 下午 03:12:47

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band 300-1000

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 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
	401.0020	3.41	peak	18.85	22.26	46.00	100	50	-23.74	
*	611.4228	3.71	peak	23.67	27.38	46.00	100	130	-18.62	



Radiated Emission Measurement

Operator: Leon

File :2

Data :#2

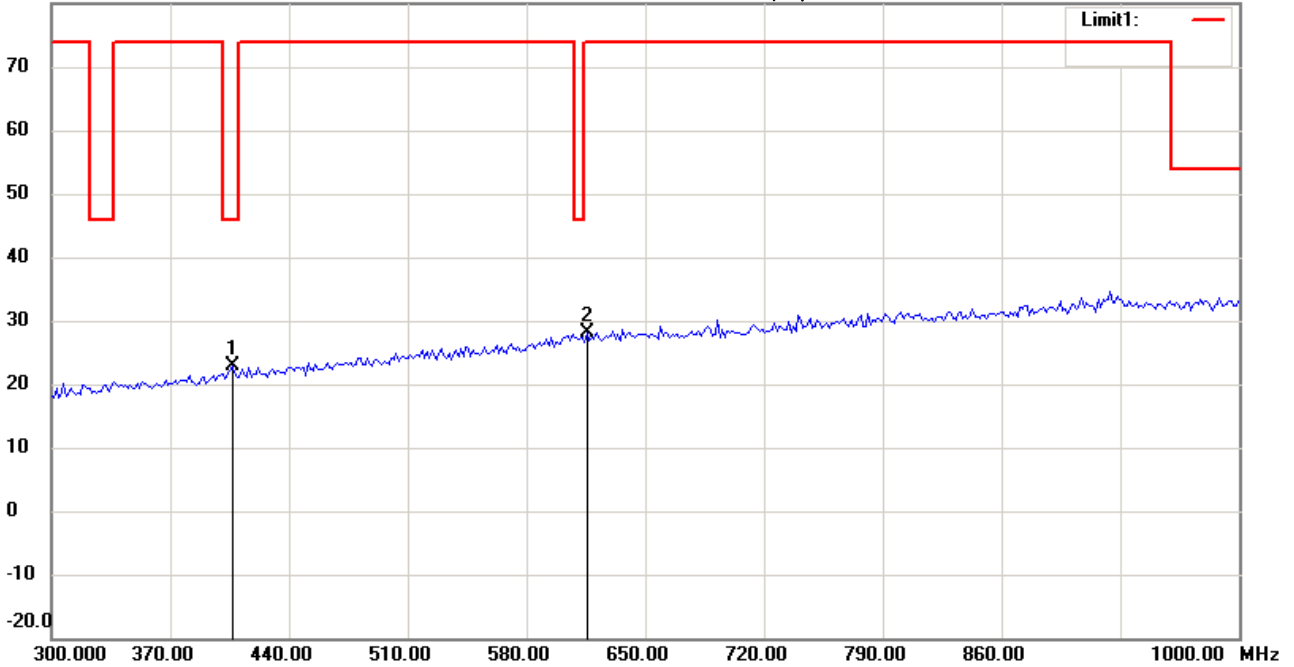
Date: 2015/7/20

Temperature:24 °C

80.0 dBuV/m

Time: 下午 03:13:32

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band 300-1000

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 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
*	406.6132	3.82	peak	18.97	22.79	46.00	100	75	-23.21	
	615.6312	4.43	peak	23.76	28.19	74.00	100	120	-45.81	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#1

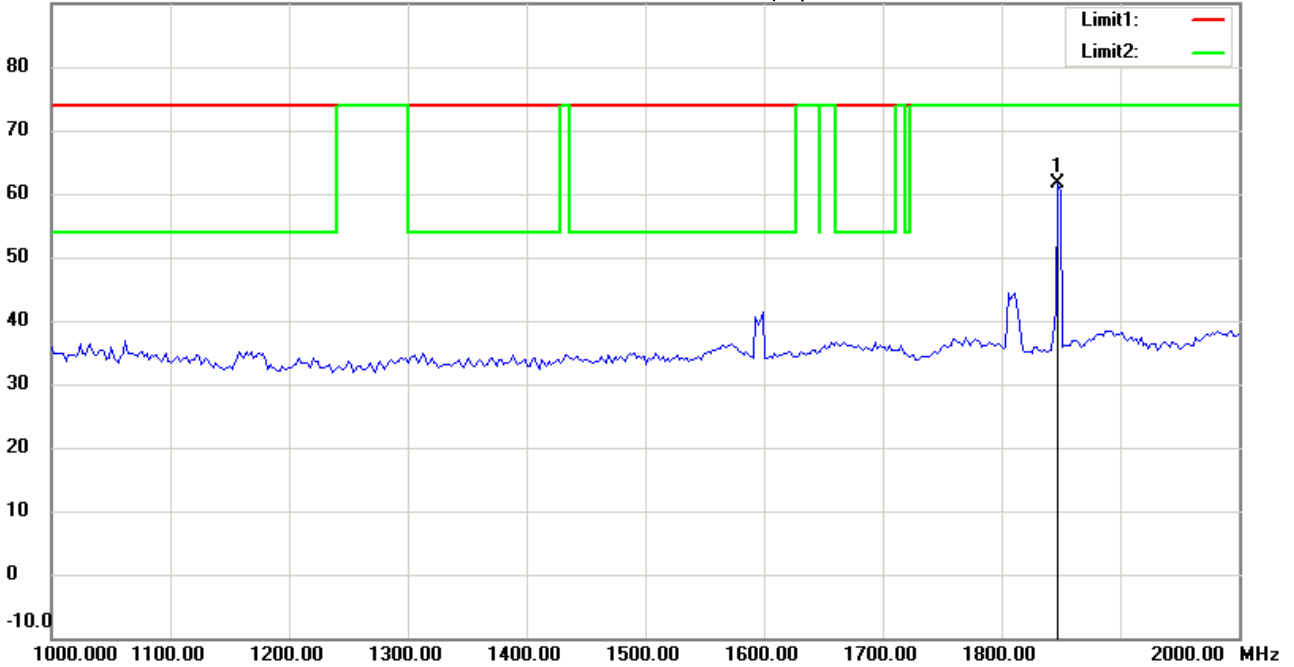
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:43:48

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 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
*	1847.695	68.30	peak	-6.66	61.64	74.00	100	25	-12.36	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#7

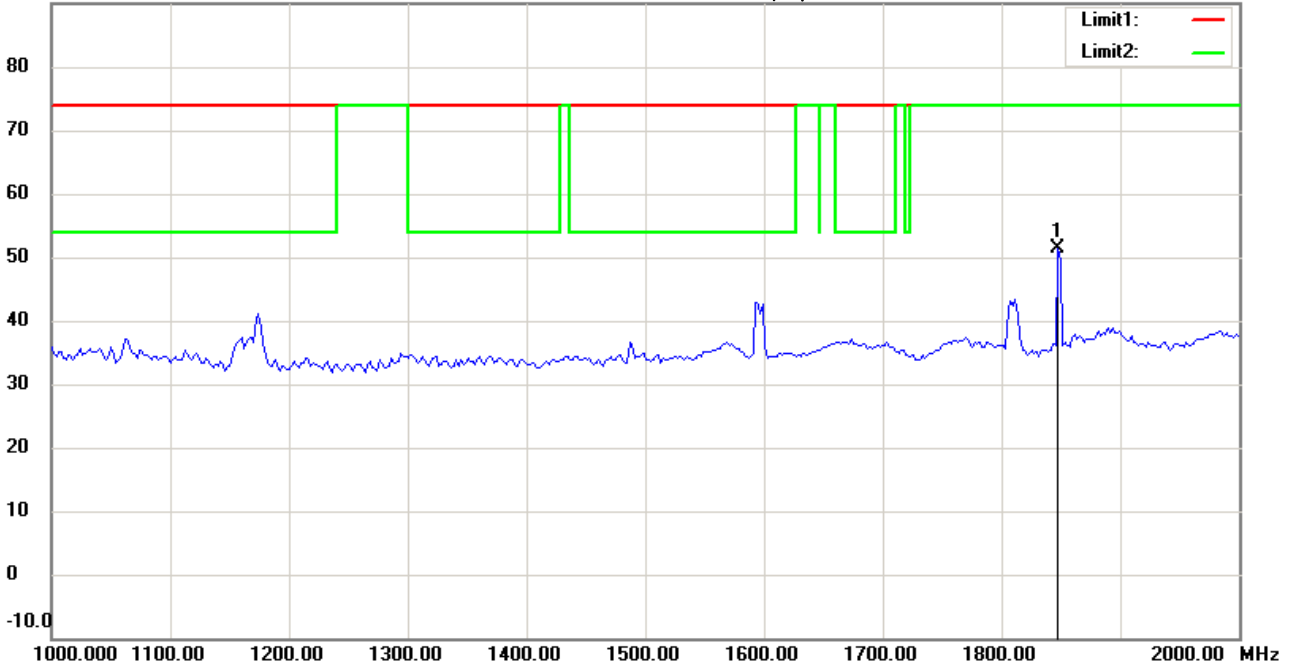
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:47:12

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 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
*	1847.695	58.03	peak	-6.66	51.37	74.00	100	105	-22.63	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#2

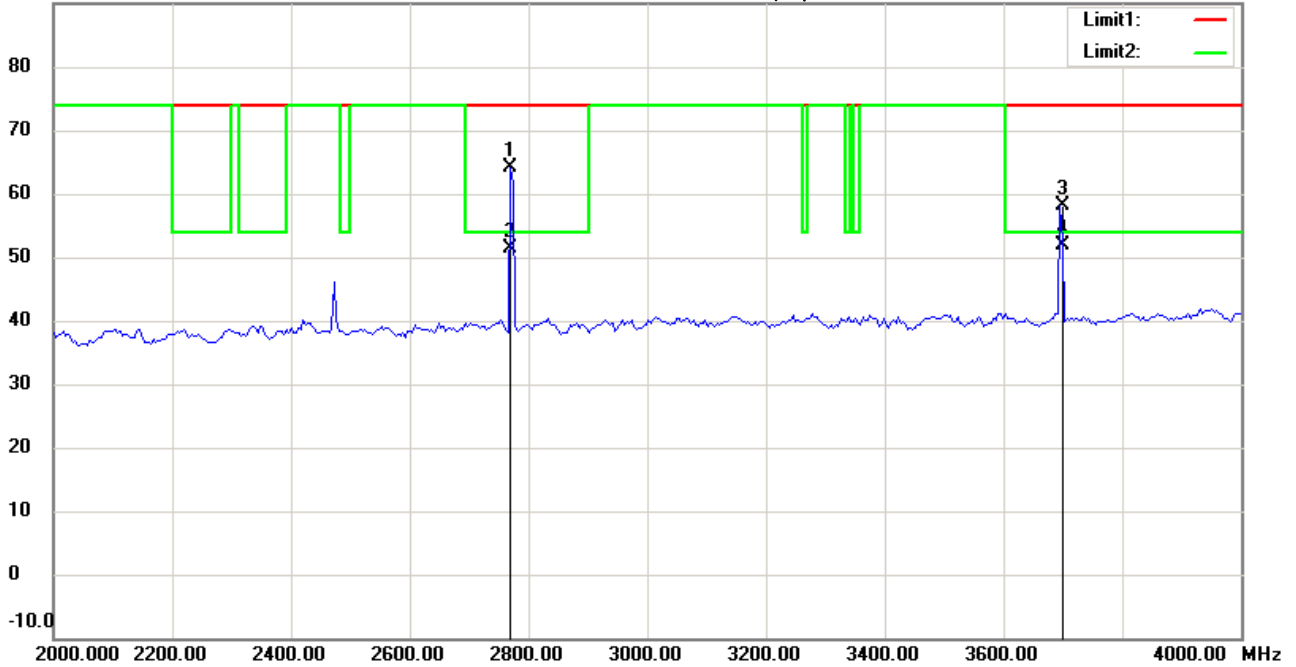
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:44:33

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 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
	2769.539	66.92	peak	-2.89	64.03	74.00	100	131	-9.97	
	2769.539	54.23	AVG	-2.89	51.34	54.00	100	131	-2.66	
	3695.391	59.30	peak	-1.14	58.16	74.00	100	210	-15.84	
*	3695.391	53.05	AVG	-1.14	51.91	54.00	100	210	-2.09	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#8

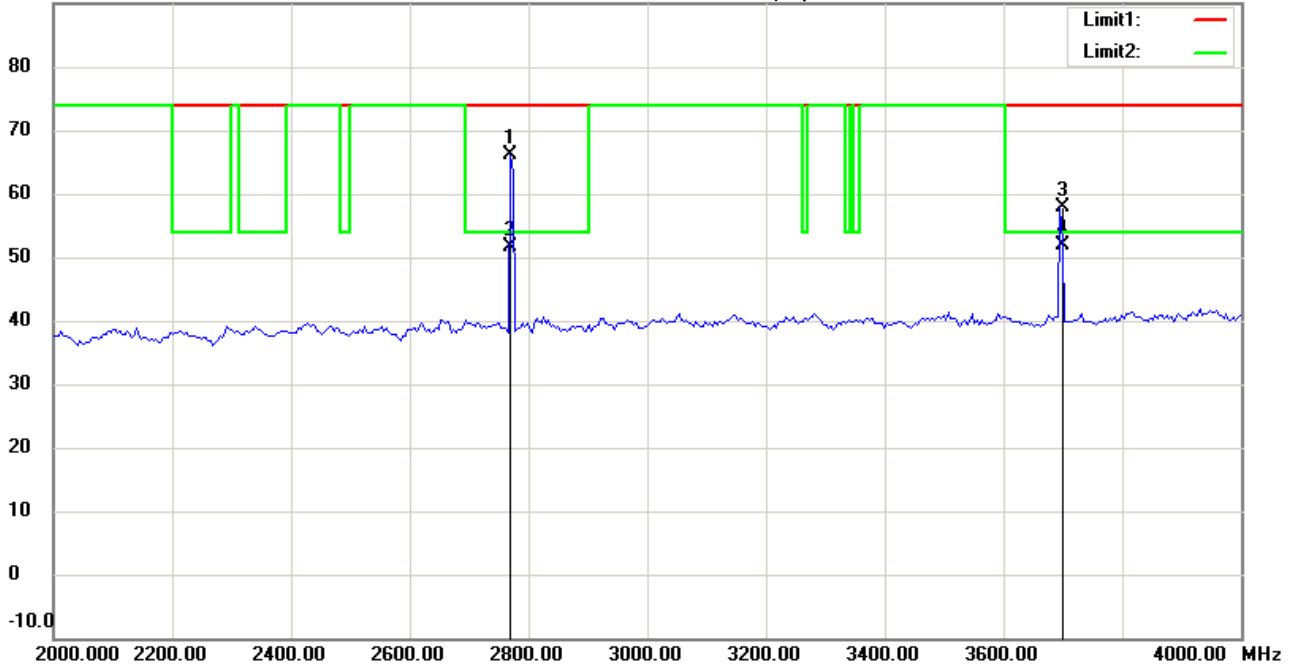
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:47:57

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 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
	2769.539	68.94	peak	-2.89	66.05	74.00	100	135	-7.95	
	2769.539	54.62	AVG	-2.89	51.73	54.00	100	135	-2.27	
	3695.391	58.99	peak	-1.14	57.85	74.00	100	90	-16.15	
*	3695.391	52.99	AVG	-1.14	51.85	54.00	100	90	-2.15	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#3

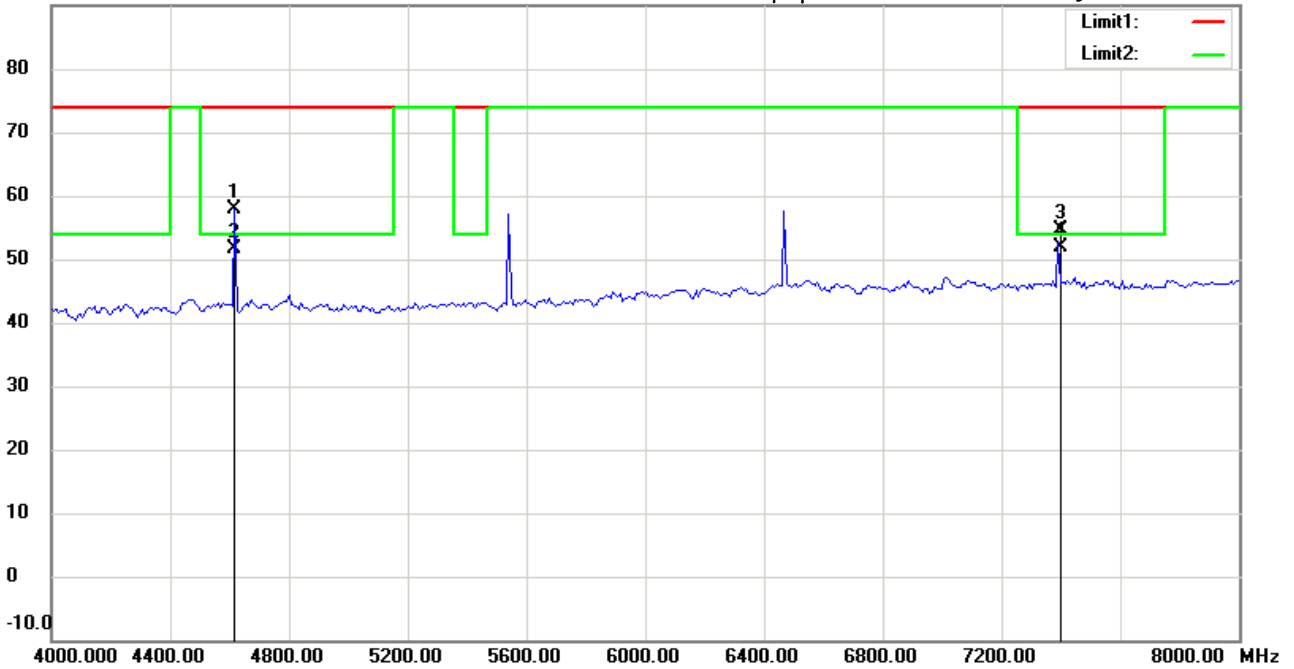
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:45:18

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 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	57.22	peak	0.66	57.88	74.00	100	75	-16.12	
	4617.234	50.99	AVG	0.66	51.65	54.00	100	75	-2.35	
	7390.782	49.13	peak	5.48	54.61	74.00	100	115	-19.39	
*	7390.782	46.35	AVG	5.48	51.83	54.00	100	115	-2.17	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#9

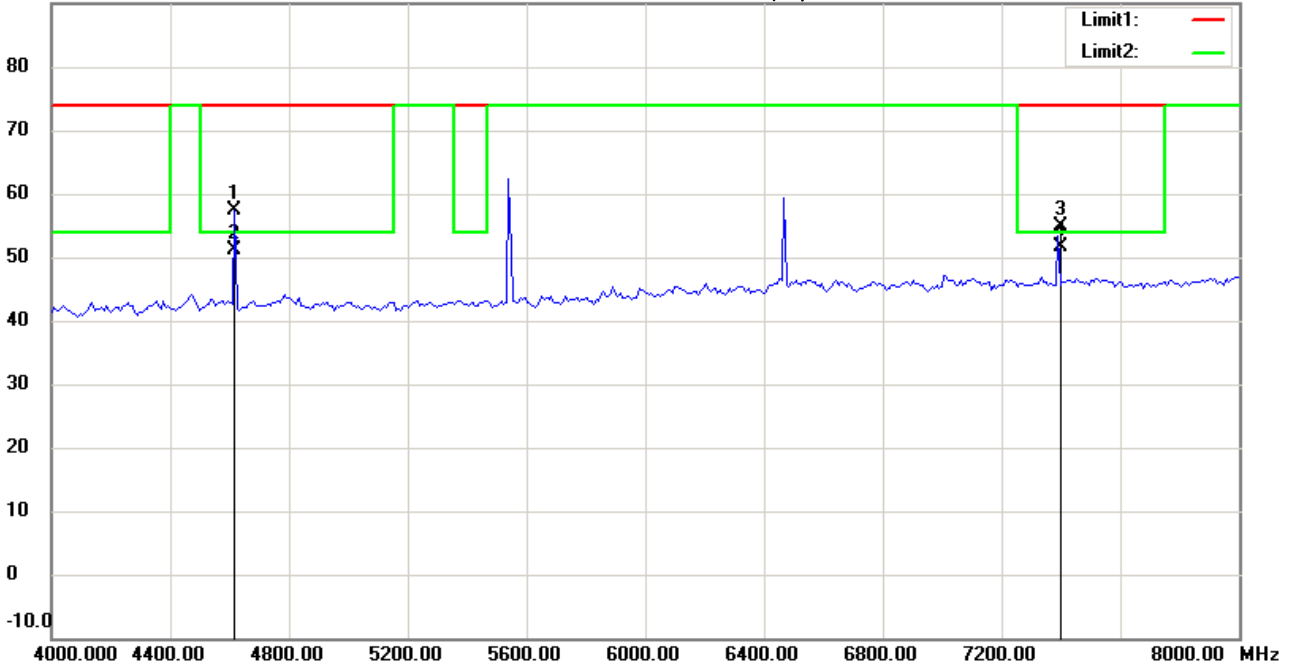
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:48:43

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 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	56.69	peak	0.66	57.35	74.00	100	185	-16.65	
	4617.234	50.39	AVG	0.66	51.05	54.00	100	185	-2.95	
	7390.782	49.37	peak	5.48	54.85	74.00	100	233	-19.15	
*	7390.782	46.27	AVG	5.48	51.75	54.00	100	233	-2.25	



Radiated Emission Measurement

Operator: Leon

File :3

Data :#4

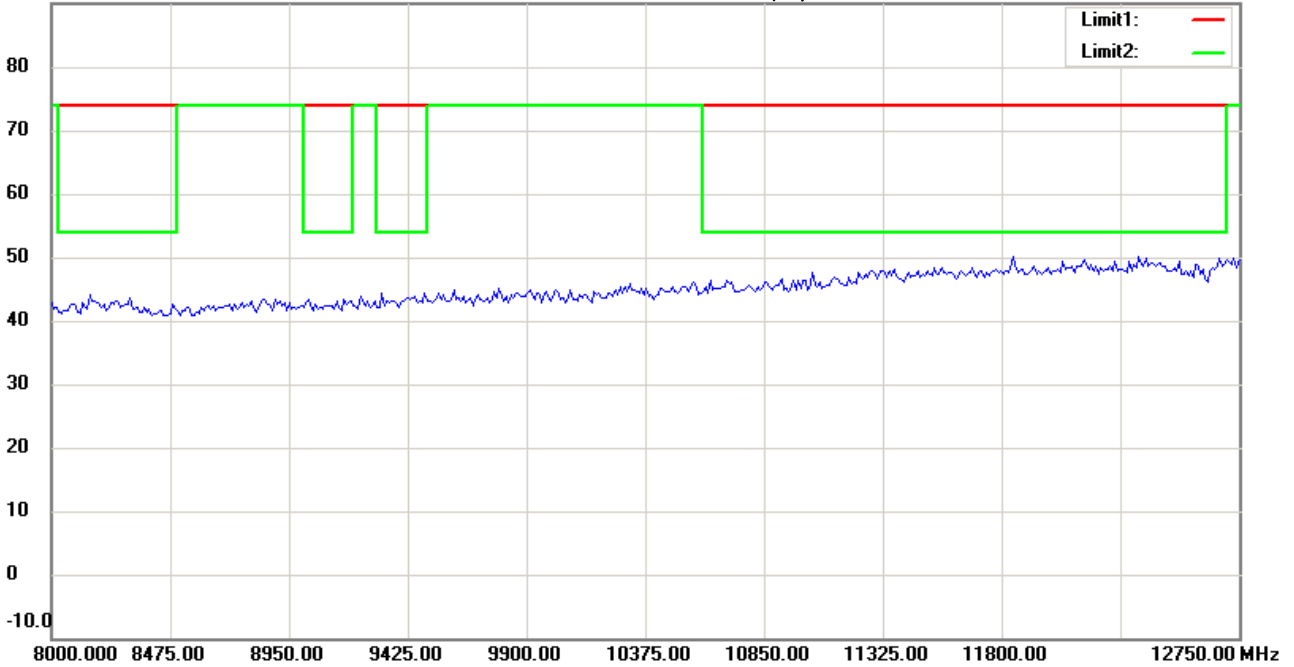
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:46:03

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Horizontal*

EUT : W6M21406-14279

Power : 3 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
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Radiated Emission Measurement

Operator: Leon

File :3

Data :#10

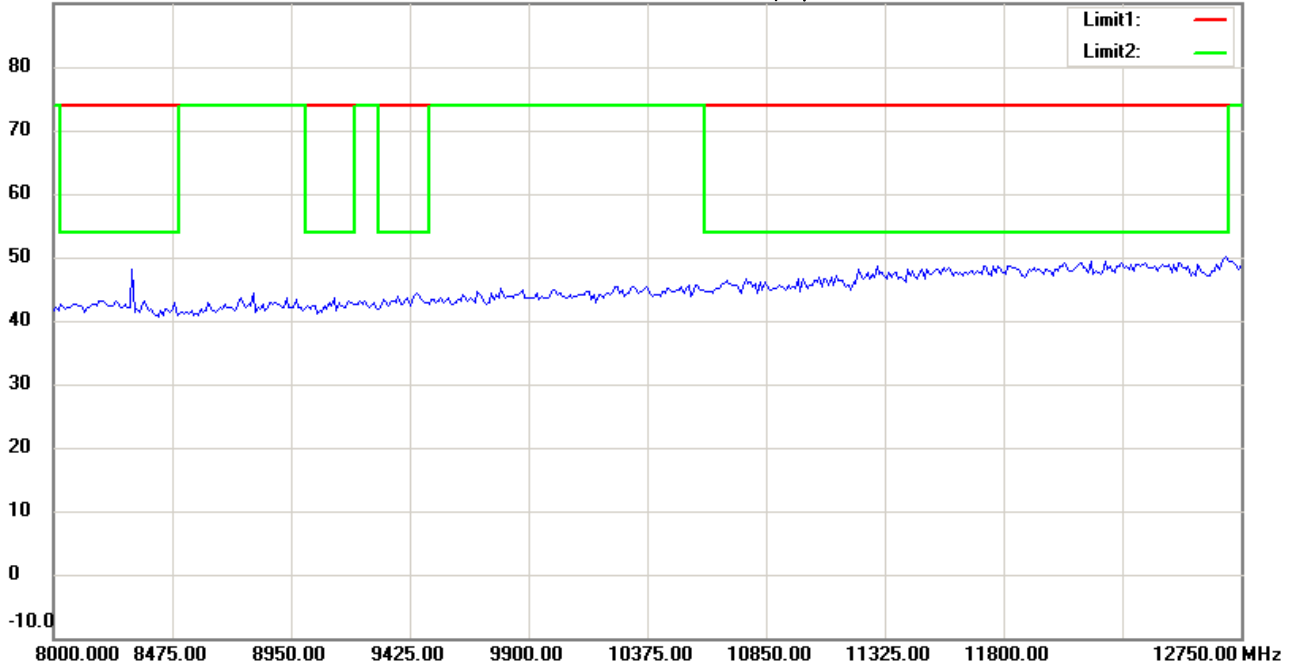
Date: 2015/7/18

Temperature:24 °C

90.0 dBuV/m

Time: 下午 01:49:27

Humidity:60 %



Site : Chamber

Condition : FCC Restriction Band_Above 1GHz_PK

Polarization: *Vertical*

EUT : W6M21406-14279

Power : 3 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
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